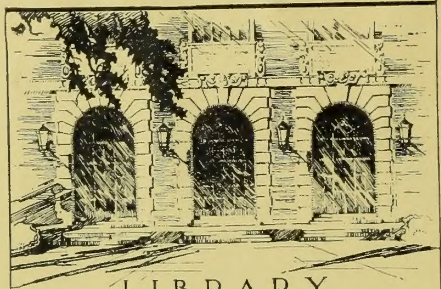

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U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

MISSOURI SECTION

IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

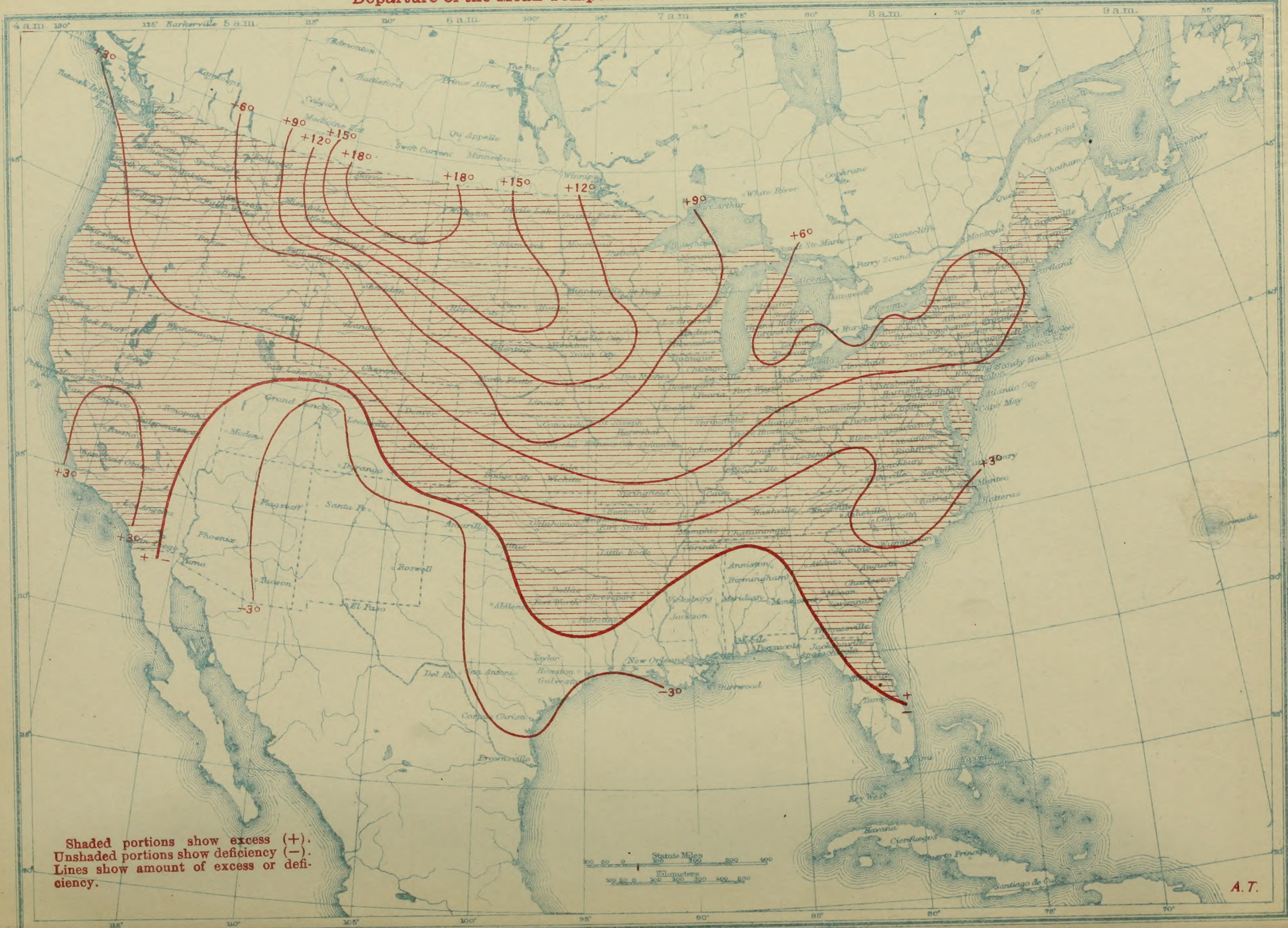
JANUARY, 1919

BY

GEORGE REEDER
METEOROLOGIST

COLUMBIA, MO.,
WEATHER BUREAU OFFICE
FEB. 24, 1919.

Departure of the Mean Temperature from the Normal, January, 1919.



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXIII. COLUMBIA, MO., JANUARY, 1919. No. 1

GENERAL SUMMARY.

Except the first week, which was cold and moist, January, 1919, was characterized by mild, open weather, an abundance of sunshine and a marked deficiency in precipitation. It was the driest January since the beginning of precipitation records in this State, about 52 years ago. Altogether it was a favorable month for outdoor pursuits, and a remarkably pleasant one from the side of personal comfort.

The soil was in excellent condition, and considerable plowing was done the latter half of the month. The wheat crop was rated as good to excellent. Stock were in fine condition, the well grown wheat and rye fields furnishing excellent pasturage. Public roads were never in better condition this time of the year, and traffic was heavy. Because of the unusually mild weather rural ice houses are empty.

TEMPERATURE.

The monthly mean temperature for the State, 68 stations reporting, was 34 0°. The mean departure from the normal for 65 stations having 10 or more years' record was plus 3.6°. The present month was about 18° warmer than the same month in 1918, though it is probably well to mention the fact that January, 1918, was the coldest on record. The present month opened decidedly cold, and on the 3d and 4th zero conditions prevailed everywhere, save in the extreme Southeast. By the 8th or 10th, however, the weather had become much milder, and the remainder of the month was remarkable for its fine, spring-like weather.

PRECIPITATION.

The average monthly precipitation, 83 stations reporting, was 0.40 inch. The departure from the normal for 75 stations having 10 or more years' record was minus 1.88 inches. This has been the driest January in 52 years, although a few other Januarys have been nearly as dry, namely, 1872, 1875, 1881, and 1893. Eight stations received no precipitation at all; seven others had a trace only, and about 34 received a total fall of 0.10 inch or less. The snowfall was unusually light. All of it fell during the cold spell of the first week; by the 13th all snow had disappeared from the ground, even in the most northerly counties.

WIND.

The prevailing winds were from the southwest. The average hourly velocity, 8 stations equipped with anemometers reporting, was 8.7 miles, varying but little from normal. There were no high winds during the month.

SUNSHINE AND CLOUDINESS.

The number of hours of sunshine was 256. This is about 73 per cent of the possible and 22 per cent greater than normal. The number of clear days in this January exceed all previous records for this month.

MISCELLANEOUS PHENOMENA.

Aurora—At Springfield on 22d.

Fogs, dense—19th, 20th, 22d, 23d, and 27th.

Halos, solar—4th, and 13th. Lunar—11th, 13th, 15th, and 16th.

Sleet—1st, and 16th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	30.14	82	......	227	75	5,530	7.4	26	nw.	7
Hannibal	30.12	81	......	......	......	6,186	8.3	28	sw.	10
Kansas City	30.14	77	66	238	78	7,824	10.5	31	n.	4
St. Joseph	30.12	85	69	206	68	5,499	7.4	29	nw.	7
St. Louis	30.13	73	59	228	75	9,400	12.6	37	s.	10
Springfield	30.16	80	66	197	64	6,611	8.9	23	nw.	7
Cairo, Ill	30.16	81	64	......	......	5,570	7.5	28	n.	9
Keokuk, Iowa	30.14	82	69	239	76	5,325	7.2	24	s.	8

COMPARATIVE DATA FOR JANUARY.

Year.	Temperature.				Precipitation.				Number of Days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	21.5	−8.7	74	−32	1.91	−0.08	......	.....	6	.....	.....	.....
1889	31.8	+1.6	69	− 2	2.36	+0.37	......	.....	6	.....	.....	.....
1890	33.8	+3.6	81	−19	4.25	+2.26	......	.....	9	.....	.....	.....
1891	34 1	+3.9	74	− 1	1.52	−0.47	......	4.3	6	.....	.....	.....
1892	24.0	−6.2	67	−25	1 80	−0.19	......	.....	4	14	8	9
1893	22.5	−7.7	66	−14	0.45	−1.54	0.90	2.4	3	9	11	11
1894	31.4	+1.2	77	−35	2.21	−0.22	2.96	2.7	5	13	9	9
1895	24.7	−5.5	78	−22	1.49	−0.50	2.20	9.4	5	14	8	9
1896	32.9	+2.7	71	− 9	1.17	−0.82	2.44	3.1	4	10	7	14
1897	28.4	−1.8	72	−16	4.90	+2.91	6.95	4.0	8	12	7	12
1898	34.3	+4.1	75	−10	3.98	+1.99	3.35	8.4	9	11	8	12
1899	30.2	0.0	70	−21	1.55	−0.44	2.40	4.0	6	12	8	11
1900	34.5	+4.3	77	− 9	1.22	−0.77	2.30	0.2	4	14	7	10
1901	35.0	+4.8	72	−11	1.30	−0.69	2.95	0.8	4	17	7	7
1902	30.1	−0.1	72	−17	1.23	−0.76	3.37	6.9	5	16	7	8
1903	31.4	+1.2	73	−11	1.36	−0.63	1.71	5.0	6	13	6	12
1904	27.0	−3.2	66	−23	2.85	+0.86	4.74	7.4	8	14	6	11
1905	22.3	−7.9	72	−19	1.79	−0.20	2.52	6.8	8	14	6	11
1906	35.6	+5.4	76	− 8	3.64	+1.65	3.00	9.2	6	14	5	12
1907	34.3	+4.1	79	− 5	5.10	+3.11	4.42	2.8	12	7	6	18
1908	34.4	+4.2	68	−10	1.51	−0.48	2.13	3.6	5	19	5	7
1909	33.7	+3.5	83	−20	2.17	+0.18	2.10	6.5	7	6	7	18
1910	32.3	+2.1	78	−24	1.83	−0.16	3.98	3.5	5	13	6	12
1911	34.6	+4.4	78	−19	1.20	−0.70	3.03	0.7	5	8	7	16
1912	20 0	−11.3	70	−36	1.06	−1.20	2.56	6.5	4	14	7	10
1913	33.1	+1.8	74	−12	3.67	+1.30	5.30	2.6	8	13	6	12
1914	38.1	+6.9	78	− 1	1.42	−0.92	2.00	1.0	4	12	7	12
1915	29.1	−2.2	76	−24	2.92	+0.59	3.10	5.4	8	12	5	14
1916	31.6	+0.7	72	−24	7.36	+5.16	4.65	3.4	12	9	4	18
1917	32.9	+2.5	76	−10	1.52	−0.64	2.50	2.3	5	15	7	9
1918	16.4	−14.0	67	−24	1.68	−0.71	3.20	16.6	7	12	7	12
1919	34.0	+3 6	70	−23	0.40	−1.88	3.05	1.4	2	20	5	6

SUPPLEMENTAL TABLE OF DATA.

Stations.	Length of record, years.	Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
		Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Arlington	15	....	....	....	....	..	..	..	..	......	Wm. R. Bennett.
Boonville	41	0.52	−1.46	0.30	3.0	3	19[a]	0[a]	11[a]	sw.	C. Randecker.
C. Girardeau	11	2.13	−1.97	0.90	2.0	7	17	0	14	s	D. L. Albert.
Glencoe	1	....	....	....	....	..	..	..	..	......	L. M. Beard.
Hermann	44	0.41	−1.82	0.40	1.0	2	23	2	6	s.	W. E. Crawford.
New Madrid	24	4.47	−0.87	3.05	1.2	9	13	3	15	ne.	Miss Josie Smith.
Osceola	18	0.00	−2.48	0.00	0	0	19[c]	4[c]	5[c]	....	Wm. E. Mathews.
Pacific	1	0.65	....	0.65	T.	1	18	3	14	w.	Mark Waters.
Steelville	16	0.54	−1.51	0.45	....	2	21	0	10	w.	A. Kreamelmeyer.
Tuscumbia	1	0.51	....	0.42	4.0	3	20	1	10	s.	C. B. Wright.
Union	1	0.50	....	0.42	1.0	4	17	4	10	sw.	J. Wm. Keller.
Valley Park	1	0.21	....	0.10	1.0	1	19[c]	7[c]	2[c]	......	T. W. McNeese.
Waverly	3	0.29	....	0.14	2.0	4	25	0	6	sw.	J. W. Cauthorn.

Climatological data for January, 1919.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	37	30.6	+3.8	63	29	−15	3	35	0.08	−1.69	0.03	0.8	3	24	0	7	sw.	Louis Benecke.
Clifton Hill	Randolph	751	....	31.8	+2.9	61	24	−14	3	33	0.08	−1.93	0.08	1.0	1	23	3	5	......	L. S. Harlan.
Columbia	Boone	784	30	34.2	+7.0	63	24	−11	3	33	0.07	−2.16	0.07	0.9	1	20	6	5	sw.	U. S. Weather Bureau.
Fayette	Howard	725	32	31.2	+3.8	58	24†	−12	3	33	0.06	−2.05	0.06	1.0	1	20	8	3	..	Prof. T. B. Smith.
Fulton	Callaway	818	13	34.6	+4.7	64	29†	−9	3	37	0.15	−2.46	0.11	1.4	2	26	2	3	sw.	Dr. C. J. Elmore.
Gorin	Scotland	700	28	......	......	......	......	......	......	....	0.00	−1.76	0.00	0	0	17	7	7	sw.	J. W. Pulliam.
Hannibal	Marion	534	24	32.3	+5.6	61	29	−12	3	33	0.02	−2.18	0.02	0.6	1	18	7	6	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	31	33.7	+3.9	62	24†	−9	3†	32	0.48	−1.84	0.45	0.4	2	27	3	1	n.	Miss Emma Swift.
Keytesville	Chariton	660	4	......	......	......	......	......	......	....	......	......	......	......	....	....	....	....	......	J. T. Dewey, M. D.
Kirksville	Adair	969	25	29.9	+5.0	59	29	−17	3	32	T.	−1.64	T.	T.	0	16	13	2	s.	Prof. Mark Burrows.
Louisiana	Pike	469	39	32.6	+4.7	58	24	−9	3	42	0.05	−2.00	0.03	0.5	2	24	2	5	w.	J. T. Farrell.
Macon	Macon	875	19	30.2	+1.5	59	29	−12	3	34	0.33	−1.53	0.33	2.5	1	23	2	6	sw.	Chas. N. Tolman
Mexico	Audrain	797	39	31.5	+2.9	63	29	−10	3	37	0.38	−1.80	0.20	4.0	2	23	0	8	w.	Mrs. Abbie Snoddy.
Oakfield	Franklin	793	36	37.6	+5.5	64	21†	−7	3	35	0.04	−2.53	0.02	1.0	2	15	10	6	s.	E. E. Steines.
Palmyra	Marion	652	5	30.5	+2.1	58	24†	−13	3†	31	0.00	−2.65	0.00	0	0	25	0	6	nw.	W. B. Markell.
St. Catherine	Linn	850	4	28.9	......	60	20	−20	3	33	0.06	....	0.03	1.0	2	21	5	5	sw.	L. D. Baker.
St. Charles	St. Charles	456	39	36.6	+5.4	64	18	−5	3†	39	T.	−2.50	T.	T.	0	18	7	6	nw.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	46	37.8	+6.8	62	20	−3	3	31	0.13	−2.14	0.07	0.7	5	19	10	2	nw.	U. S. Weather Bureau.
St. Louis (2)	......do	578	5	37.0	......	62	29	−4	3	29	0.16	....	0.06	0.5	5	18	11	2	w.	St. Louis University.
Shelbina	Shelby	779	25	......	......	......	......	......	......	....	0.00	−1.90	0.00	0	0	....	....	....	......	S. G. Parsons.
Steffenville	Lewis	650	24	30.6	+2.4	61	24	−17	3	36	0.50	−1.97	0.50	7.0	1	18	7	6	sw.	Frank Hall.
Unionville	Putnam	1,072	24	29.0	+5.7	60	29	−20	3	32	0.04	−2.06	0.04	0.4	1	27	1	3	sw.	Geo. W. Davis.
Warrenton	Warren	865	26	34.9	+5.7	64	24	−9	3†	33	0.50	−1.96	0.42	0.5	2	16	9	6	w.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	45	30.7	+7.0	60	24	−18	3	32	0.01	−1.63	0.01	0.1	1	20	9	2	sw.	U. S. Weather Bureau.
Section means and	extremes	....	....	32.7	+4.6	64	18†	−20	3	42	0.14	−2.02	0.50	1.1	2	21	5	5	sw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	26	41.8	+2.5	69	30†	6	4	36	2.81	−1.77	1.93	T.	5	17	4	10	e.	H. E. Averill.
Doniphan	Ripley	344	12	37.4	+0.3	62	29	3	4	36	1.27	−3.09	0.67	1.0	3	24	2	5	s.	W. W. Martin.
Jackson	Cape Girardeau	458	26	37.0	+2.7	65	19†	2	4	40	1.41	−2.50	1.15	1.0	4	12	9	10	s.	L. M. Bean.
Marble Hill	Bollinger	420	25	37.8	+3.1	70	12	1	4	46	1.10	−2.68	1.00	T.	2	16	10	5	s.	W. A. Kinder.
Patton (near)	Bollinger	500	2	......	......	......	......	......	......	....	0.50	....	0.50	0	1	....	....	....	......	George F. Ellis.
Poplar Bluff	Butler	339	13	39.5	+0.4	65	19	4	4	37	1.42	−2.66	0.60	0.2	7	16	4	11	......	Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill	359	44	39.4	+4.6	63	20	4	4	24	1.15	−2.67	0.57	0.7	8	13	5	13	s.	U. S. Weather Bureau.
Section means and	extremes	....	....	38.8	+2.3	70	12	1	4	46	1.24	−2.56	1.93	0.4	4	16	6	9	s.	
Ozark Plateau.																				
Arcadia	Iron	925	39	35.4	−3.1	65	19†	−3	4	39	0.89	−2.37	0.42	1.8	3	21	4	6	s.	Arcadia College.
Birchtree	Shannon	1,078	23	37.4[a]	+2.6	65	19†	−3	4	34	0.70	−2.41	0.32	T.	3	22	5	4	s.	V. H. Kirkendall.
Bolivar	Polk	1,071	29	36.2	+1.6	65	30	−7	3	35	T.	−1.99	T.	T.	0	22	3	6	sw.	K. H. Brown.
Cassville	Barry	1,500	6	36.7	+3.1	67	18	−4	3	45	T.	−2.27	T.	T.	0	19	5	7	n.	William Talbert.
Dean	McDonald	1,000	18	36.6	−0.3	65	19†	−3	3	43	0.35	−2.06	0.18	T.	2	24	0	7	......	H. E. Dean.
Eldon	Miller	934	16	32.0[d]	−0.2	64	29	−11	3	35	0.10	−1.63	0.10	2.0	1	14[d]	11[d]	2[d]	s.	E. H. Shepherd.
Farmington	Reynolds	918	3	37.6	+5.1	66	19	−4	3	34	0.44	−1.94	0.38	1.0	3	19	5	7	nw.	Robert Forsyth.
Gano	Dent	1,250	13	35.9	+1.9	61	20†	−8	3	33	0.20	−2.89	0.10	2.3	3	17	6	8	nw.	A. C. Leach.
Goodland	Iron	1,000	12	35.9	+3.0	66	19	−4	3	45	0.05	−3.01	0.05	0.5	1	19	7	5	n.	F. M. Adams.
Hollister	Taney	735	8	36.6	+0.3	64	30	0	3	34	0.30	−2.21	0.30	0	1	13	0	18	nw.	W. P. Chapmann.
Houston	Texas	1,280	24	37.8	+5.2	65	30	−4	3	37	0.05	−2.64	0.05	0.5	1	20	6	5	sw.	R. F. Harmon.
Koshkonong	Oregon	958	16	39.6	+2.6	66	19	0	4	33	0.96	−2.64	0.32	1.0	6	20	3	8	nw.	R. M. Hitt.
Lebanon	Laclede	1,265	28	34.3	+0.7	65	30	−8	3	36	T.	−2.62	T.	T.	0	7	15	9	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	22	36.8	+2.7	62	18†	−7	3†	34	0.18	−1.63	0.10	2.0	2	23	4	4	sw.	C. S. Crow.
Mountain Grove	Wright	1,490	18	36.9	+2.9	64	30	−7	4	37	0.99	−1.99	0.83	1.5	3	17	7	7	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	34	37.2	+1.8	65	9	−5	3	37	0.18	−2.44	0.13	0.1	3	23	2	6	......	W. O. Buck.
Rolla	Phelps	1,139	35	37.7	+6.2	64	19†	−8	3	33	0.11	−2.49	0.05	3.0	3	20	7	4	w.	Prof. Elmo G. Harris.
Springfield	Greene	1,350	29	36.6	+5.3	62	19	−6	3	27	0.34	−2.32	0.19	3.6	5	18	6	7	s.	U. S. Weather Bureau.
Section means and	extremes	....	....	36.5	+2.3	67	18	−11	3	45	0.32	−2.31	0.83	1.1	2	19	5	7	nw.	
Southwest Plain.																				
Amoret	Bates	831	8	33.3	+1.9	63	29	−13	3	36	1.25	−0.21	1.25	8.0	1	22	6	3	s.	Darby Fruit Farm.
Appleton City	St. Clair	853	26	34.7	+2.9	62	29	−10	3	31	0.34	−1.67	0.29	1.5	2	23	2	6	sw.	W. G. Bigelow.
Clinton	Henry	765	30	35.0[a]	+3.3	62	29†	−10	3	35	0.70	−1.39	0.50	7.0	2	22	5	4	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	912	44	......	......	......	......	......	......	....	......	......	......	......	....	....	....	....	......	A. J. Sharp.
Lamar	Barton	980	36	35.6	+2.9	62	19†	−8	3	38	0.04	−1.74	0.04	0	1	21	5	5	s.	Joe W. Springer.
Lamonte	Pettis	863	28	32.4	+3.1	61	31	−12	3	35	T.	−1.98	T.	0	0	21	4	6	sw.	J. Ed. Hall.
Marshall	Saline	779	26	31.4[b]	+3.7	59	29	−13	3	31	0.20	−1.78	0.10	1.0	3	17[b]	9[b]	3[b]	sw.	Dr. W. H. Black.
Nevada	Vernon	860	23	35.8	+4.5	61	29	−9	3	31	0.00	−2.10	0.00	0	0	23	2	6	s.	George A. Kaupp.
Warrensburg	Johnson	883	38	34.2	+5.3	63	29	−12	3	32	0.42	−1.33	0.42	3.2	1	23	1	7	w.	Geo. H. Collins.
Warsaw	Benton	715	12	35.0	+1.2	65	29	−10	3	40	0.40	−2.09	0.20	3.5	3	18	10	3	w.	J. R. Smith, M. D.
Section means and	extremes	....	....	34.2	+3.2	65	29	−13	3	40	0.37	−1.59	1.25	2.7	1	21	5	5	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	31	31.2	+2.6	61	29	−12	3	27	0.00	−1.99	0.00	0	0	24	2	5	sw.	F. G. Ashbaugh.
Bethany	Harrison	916	27	28.6	+3.9	67	18	−19	2†	40	0.10	−1.35	0.10	1.0	1	19	3	9	sw.	M. H. Moulton.
Chillicothe	Livingston	768	1	31.8	+1.8	64	29	−18	3	32	0.00	−2.08	0.00	0	0	24	5	2	sw.	R. L. Isherwood.
Conception	Nodaway	982	32	29.4	+4.6	61	29	−21	3	32	0.00	−1.05	0.00	0	0	18	9	4	sw.	Fr. Adelhelm Hess.
Gallatin	Daviess	803	17	......	......	......	......	......	......	....	0.20	−1.06	0.10	2.0	3	21	6	4	nw.	Robert R. Wynne, Jr.
Grant City	Worth	1,134	24	30.0	+5.4	60	24	−19	3	35	0.10	−0.92	0.10	1.0	1	22	0	9	nw.	W. H. Campbell.
Kansas City	Jackson	963	28	34.4	+8.2	63	29	−13	3	30	0.07	−1.06	0.07	1.0	1	23	1	7	s.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	26	33.8	+7.3	69	24†	−18	3	36	0.20	−1.23	0.20	4.0	1	22	1	8	sw.	J. F. Sharp.
Lexington	Lafayette	688	35	32.6	+5.1	62	29	−15	3	30	0.67	−0.99	0.57	9.0	3	24	0	7	w.	J. W. Keithley.
Liberty	Clay	864	28	32.4	+3.6	62	29	−16	3	34	0.00	−1.39	0.00	0	0	21	5	5	s.	W. C. Wilmott.
Maryville	Nodaway	1,036	26	27.2	+5.0	59	24†	−23	4	47	0.65	−0.54	0.60	6.5	2	19	4	8	s.	J. R. Brink.
Oregon	Holt	1,048	61	29.2	+5.4	59	29	−20	3	37	0.09	−1.39	0.09	1.0	1	21	4	6	sw.	Tom Curry.
St. Joseph	Buchanan	967	45	31.8	......	61	29	−16	3	27	0.03	−1.08	0.03	0.3	1	20	5	6	sw.	U. S. Weather Bureau.
Tarkio	Atchison	976	5	29.7	+7.7	63	29	−19	3	35	0.60	−0.26	0.40	6.0	2	24	2	5	sw.	John F. Frazier.
Trenton	Grundy	822	22	29.0	+2.0	56	29	−17	3	29	T.	−1.56	T.	T.	0	20	4	7	nw.	W. H. Estes.
Section means and	extremes	....	....	30.8	+4.8	69	24†	−23	4	47	0.18	−1.20	0.57	2.1	1	22	3	6	sw.	
State means and	extremes	....	....	34.0	+3.6	70	12	−23	4	47	0.40	−1.88	3.05	1.4	2	20	5	6	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b] represents two days, etc.

† Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Oakfield, Pacific, R. F. D. No. 1; of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily precipitation for January, 1919.

Stations.	Watersheds.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
oonville	Missouri	.30			T.	.12															T.								.10				0 52
runswick	Grand	.03			.03	.02																											0.08
lifton Hill	Chariton				.08																												0.08
olumbia**	Missouri	T.			.07	T.		T.																				T.					0.07
ayette	do				.06																												0.06
ulton	do				.11	.04																											0.15
lencoe	Meramec																																......
lorin	Mississippi																																0.00
annibal***	do	T.			T.	.02		T.														T.											0.02
ermann	Missouri	.40				.01	T.																										0.41
efferson City	do	.45			T.	.03																											0.48
eytesville	Chariton																																......
irksville	Mississippi				T.																												T.
ouisiana	do	T.			.02	.03									T.																		0.05
acon	Chariton	.33																															0.33
exico	Mississippi				.18	.20																											0.38
akfield	Meramec	.02			T.	.02																											0.04
acific	do	.65				T.																											0.65
almyra	Mississippi																																0.00
t. Catherine	Grand	.03			.03																												0.06
t. Charles	Missouri	T.																															T.
t. Louis (1)**	Mississippi	.03			.02	.01								T.			T.						.05	.02									0.13
t. Louis (2)	do	.01			.02	.02																	.06	.05									0.16
helbina	do																																0.00
teffenville	do	.50				T.																											0.50
nion	Meramec	.42				.05	.01																	.02									0.50
nionville	Grand	.04		T	T.																												0.04
alley Park	Meramec	.10			.01	.10																											0.21
arrenton	Mississippi	.42	T.			.08	T.																										0.50
eokuk, Iowa***	do				T.	.01	T																										0.01
Southeast Lowlands.																																	
ape Girardeau	Mississippi	.90	.05			.20			.05						.18			.05						.70									2.13
aruthersville	do	1.93			T.	T.		.08							.18		T.	.10					T.	.52									2.81
oniphan	Black	T.			T.	.20										T.	.67						.40										1.27
ackson	Mississippi				.04	.04								.18									1.15										1.41
arble Hill	do	.10																						1.00									1.10
ew Madrid	do	3.05	.30			.10	.02		.30						.08	.10		.10						.42									4.47
atton (near)	do																						.50										0.50
oplar Bluff	Black	.60			T.	.02		.07							.13		.05	T.					.03	.52									1.42
airo, Ill.***	Mississippi	.29		T.	.02	.04		.08							.10		.05						.39	.18									1.15
Ozark Plateau.																																	
rcadia	Gasconade	.40				07									T.			T.				T.		.42									0.89
rlington	Black																																......
irchtree	Osage				T.										.18								.20	.32									0.70
olivar	White				T.										T.																		T.
assville	Gasconade				T.	T.										T.																	T.
rocker	Neosho																																......
ean	Osage	T						T.							.18													.17					0.35
ldon	Black					.10																											0.10
armington	Meramec				.03		.03	T.														T.			.38								0.44
ano	Black	.06			.04	.10																											0.20
oodland	White					.05																											0.05
ollister	Gasconade														.30																		0.30
ouston	Mississippi				.05	T.																	T.										0.05
oshkonong	Black	.07			.05	.05											.32						.20	.27									0.96
ebanon	Osage	T.		T.	T.	T.					T.	T.																T.					T.
ockwood	do				.10	.08																											0.18
ountain Grove	White	.83				.09									.07																		0.99
eosho	Neosho	T.			.04	.01		T.						T.														.13					0.18
olla	Meramec	.02			.04	.05								T.																			0.11
pringfield ***	White	.03	T.		.10	.09								.07	.05													T.					0.34
teelville	Meramec	.45				.09																											0.54
uscumbia	Osage	.42			T.	.09	T.																					T.					0.51
Southwest Plain.																																	
Amoret	Osage				1.25																T.												1.25
Appleton City	do	.29			T.	.05		T.													T.												0.34
linton	do	.50			.20																												0.70
Harrisonville	do																																......
Lamar	Neosho													.04																			0.04
Lamonte	Missouri																											T.					T.
Marshall	do	.05			.05	T.															T							.10					0.20
Nevada	Osage																																0.00
Osceola	do																																0.00
Warrensburg	Missouri				.42																							T.					0.42
Warsaw	Osage				.15	.20		T.			T.																		.05				0.40
Waverly	Missouri	.14			.04	.03																							.08				0.29
Northwest Plateau.																																	
Avalon	Grand																																0.00
Bethany	do				.10																												0.10
Chillicothe	do																																0.00
Conception	Missouri																																0.00
Gallatin	Grand	.05	T.		.10	.05																											0.20
Grant City	do	.10	T.				T.	T.					T.																				0.10
Kansas City***	Missouri		T.		.07			T.																									0.07
Kidder	Grand				.20																												0.20
Lexington	Missouri	.57			.02	.08																											0.67
Liberty	do																																0.00
Maryville	do	.60			.05																T.	T.											0.65
Oregon	do				.09			T.																									0 09
St. Joseph***	do		T.		.03			T.																									0.03
Tarkio	do	.40			.20																												0.60
Trenton	Grand				T.																												T.

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ″ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. **Precipitation in the next following measurement. ‡ Separate dates of fall not recorded

Daily temperatures for January, 1919.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	11	11	5	19	18	23	24	24	[illegible]	42	43	51	39	41	47	45	51	54	54	56	53	38	28	60	56	56	51	55	63	57	60	42.3
	Minimum	0	-3	-15	-14	1	1	17	6	9	12	11	16	25	22	20	21	24	27	24	[illegible]	39	37	33	39	35	25	23	29	28	30	33	18.8
Columbia	Maximum	19	13	3	18	16	25	35	36	35	41	[illegible]	56	39	40	46	48	56	57	55	59	56	47	45	63	54	53	49	53	63	53	58	43.1
	Minimum	7	3	-11	-3	5	15	21	14	22	27	27	29	32	28	25	31	29	32	32	38	47	34	34	37	34	27	32	31	30	34	35	25.2
Fayette	Maximum	26	30	11	19	21	45	35	38	38	39	42	48	32	37	42	46	36	54	52	53	52	35	28	58	53	52	46	49	58	50	51	41.2
	Minimum	5	0	12	2	5	10	22	9	22	19	15	12	26	22	29	25	32	34	20	29	40	29	29	30	33	22	27	26	27	29	29	21.2
Hannibal	Maximum	26	11	1	15	18	34	33	24	31	45	45	54	50	40	35	45	50	54	18	55	53	46	46	59	53	51	18	18	61	50	51	41.6
	Minimum	6	-1	-12	-6	10	15	11	7	20	20	20	22	24	28	25	32	23	30	34	28	43	37	22	32	37	28	29	30	28	31	28	23.6
Jefferson City §§	Maximum	15	18	7	17	25	35	37	50	34	40	[illegible]	55	41	40	46	47	[illegible]	58	[illegible]	60	57	41	46	62	52	52	40	55	62	52	54	43.9
	Minimum	10	5	-9	-9	3	20	21	16	15	22	24	20	30	28	20	24	26	27	31	33	32	37	33	33	37	27	28	30	30	32	30	23.5
Kirksville	Maximum	23	10	1	13	15	28	32	32	32	36	[illegible]	24	42	40	14	44	35	47	18	52	52	50	58	58	54	52	47	49	59	52	50	39.9
	Minimum	-2	-7	-15	16	0	1	15	4	[illegible]	14	15	2	23	20	22	30	25	30	20	32	40	31	32	32	31	26	29	21	27	31	28	19.9
Louisiana	Maximum	20	21	15	15	29	37	36	31	31	44	1	51	50	28	42	45	51	54	51	56	57	55	45	58	55	52	46	47	56	56	54	43.6
	Minimum	12	4	-5	-4	0	8	2	[illegible]	18	17	18	28	31	24	21	25	25	30	25	22	36	33	31	28	38	24	25	32	14	15	22	21.7
Macon §§	Maximum	15	18	14	15	18	30	31	32	12	40	42	39	41	40	40	40	17	19	52	57	54	42	47	52	56	57	51	58	59	56	57	42.0
	Minimum	1	-5	-12	-6	0	4	14	1	5	18	13	18	25	22	29	18	17	20	21	32	34	34	32	32	31	26	25	24	26	30	26	18.3
Mexico §§	Maximum	11	17	10	12	20	37	38	33	32	45	47	50	33	[illegible]	40	47	52	48	56	58	55	43	45	60	55	55	46	52	63	52	55	42.4
	Minimum	9	3	-10	-16	-4	11	11	5	9	20	15	23	22	24	20	20	22	24	27	33	38	33	32	32	35	26	28	29	29	31	28	20.6
Oakfield	Maximum	22	25	16	16	22	42	40	35	41	55	51	58	51	46	[illegible]	52	53	63	60	62	64	53	48	64	55	56	55	52	64	55	57	48.4
	Minimum	17	1	-7	-5	10	12	31	11	25	20	27	30	36	32	24	34	28	21	35	40	43	45	33	32	40	30	30	32	31	35	31	26.7
St. Catharine	Maximum	22	31	3	14	11	26	32	30	32	37	35	13	12	[illegible]	[illegible]	35	47	40	52	60	54	50	37	57	54	56	48	47	57	54	52	40.2
	Minimum	-4	-15	-20	-16	-2	2	15	[illegible]	20	15	7	32	24	21	14	24	22	18	28	35	40	31	32	30	32	23	30	25	25	29	28	17.6
St. Louis (1)	Maximum	32	20	6	17	22	41	35	[illegible]	35	41	57	57	[illegible]	41	41	37	51	60	57	62	61	54	45	60	54	53	54	51	61	54	55	46.9
	Minimum	15	6	-3	-1	1	21	21	9	26	25	31	35	35	22	21	30	34	36	40	41	44	40	26	34	42	36	36	37	36	41	38	28.7
Unionville	Maximum	15	6	-5	10	14	28	32	34	[illegible]	7	40	41	40	40	42	44	40	38	42	48	50	50	28	58	56	52	48	49	60	54	52	39.5
	Minimum	-2	-12	-20	-16	-6	8	7	2	11	16	10	9	25	22	2	25	22	21	20	21	40	32	30	32	33	27	30	26	20	29	21	18.5
Warrenton §§	Maximum	35	17	7	13	18	39	35	37	43	52	57	57	49	45	50	50	55	50	57	60	61	48	49	64	53	55	52	51	65	50	55	46.1
	Minimum	17	5	-9	-9	2	8	16	17	12	20	26	26	35	29	26	27	31	30	36	37	29	45	32	31	32	29	31	29	39	33	30	23.7
Southeast Lowlands.																																	
Caruthersville	Maximum	59	30	21	21	35	16	40	12	15	13	62	62	61	53	48	45	1	65	68	66	67	62	56	60	54	63	56	61	65	69	69	53.2
	Minimum	28	23	10	6	20	22	31	21	27	21	26	32	29	35	27	35	35	28	32	50	42	48	42	30	40	32	28	32	33	33	35	30.4
Doniphan	Maximum	37	24	20	20	29	12	30	5	36	41	50	5	[illegible]	[illegible]	75	40	52	60	63	59	57	57	58	56	7	62	50	50	62	59	59	48.5
	Minimum	21	13	5	3	18	15	32	2	24	27	22	25	24	[illegible]	23	23	22	24	27	30	43	39	37	27	25	34	23	21	28	28	25	26.2
Jackson	Maximum	57	25	10	18	22	41	18	12	38	30	50	57	59	52	51	37	46	62	61	61	60	57	53	59	54	56	53	55	62	65	64	49.3
	Minimum	25	12	5	2	15	18	30	20	23	18	20	25	28	30	21	27	21	24	25	28	28	32	37	31	34	26	25	27	26	26	24	24.7
Marble Hill	Maximum	50	29	30	16	25	41	41	43	38	47	57	51	58	50	48	40	40	64	63	69	59	57	55	55	59	54	58	55	62	55	61	50.7
	Minimum	24	11	2	1	1	19	31	22	27	19	23	21	30	26	21	35	20	24	27	20	40	39	36	25	27	25	22	31	33	32	23	24.9
Poplar Bluff	Maximum	38	37	20	20	33	41	47	45	46	42	58	60	61	55	41	45	55	62	65	61	59	56	58	61	50	59	51	59	64	62	63	51.0
	Minimum	26	20	5	4	19	19	30	15	25	22	25	26	30	39	24	29	39	25	28	31	41	42	48	31	35	30	42	30	23	31	30	28.0
Ozark Plateau.																																	
Arcadia §§	Maximum	39	26	24	9	18	25	45	41	40	40	56	58	78	57	48	42	44	55	65	65	62	56	54	54	61	53	59	52	54	65	65	48.3
	Minimum	25	8	-2	-3	2	2	17	17	18	18	23	26	32	34	24	24	30	25	28	30	23	43	35	28	28	26	21	22	32	32	26	22.5
Birchtree	Maximum	25	25	16	16	28	42	43	39	52	....	51	50	58	52	45	42	56	64	65	62	55	52	54	60	52	57	51	55	64	65	62	ᵃ49.1
	Minimum	16	7	-2	-3	15	13	25	15	28	....	25	28	26	22	23	28	31	30	32	32	42	42	33	30	28	26	30	31	30	32	30	ᵃ25.8
Cassville	Maximum	32	22	19	26	29	46	38	45	40	54	61	59	54	46	36	54	63	67	63	58	50	61	66	55	60	45	54	65	61	62	63	50.5
	Minimum	8	2	-4	-1	8	15	27	11	27	21	31	28	39	20	21	27	25	28	47	37	20	25	21	35	19	25	26	30	45	24	31	22.9
Eldon	Maximum	15	15	6	15	13	40	37	26	24	46	....	....	....	....	[illegible]	58	55	56	58	58	50	48	47	58	49	53	50	53	64	53	59	ᵈ42.5
	Minimum	7	3	-11	-5	10	9	9	11	20	18	....	....	....	....	23	29	26	31	30	33	43	30	30	30	31	26	25	29	29	31	26	ᵈ21.5
Farmington	Maximum	39	22	18	18	30	42	39	37	36	53	52	56	56	71	33	56	56	64	66	64	76	60	62	51	62	51	51	52	62	59	60	48.6
	Minimum	18	7	-4	-4	16	14	26	17	27	20	26	33	38	31	29	29	30	37	32	38	37	34	38	34	32	26	28	30	32	41	34	26.7
Gano	Maximum	30	18	15	15	21	41	39	39	35	52	57	58	52	47	40	45	51	67	60	61	55	53	50	60	52	55	51	52	61	58	61	46.8
	Minimum	12	2	-8	-6	11	16	29	29	19	20	25	25	10	30	23	29	26	32	35	32	36	44	32	31	30	20	27	31	31	36	29	25.0
Hollister	Maximum	26	42	16	18	17	22	40	40	41	52	56	51	52	46	48	44	42	44	44	45	49	52	58	60	57	60	62	61	62	61	60	46.5
	Minimum	15	8	0	10	13	16	15	2	25	25	28	26	32	31	25	21	22	26	31	26	35	36	37	26	38	35	28	22	25	20	25	26.8
Koshkonong	Maximum	35	28	20	18	25	41	45	40	45	54	62	60	66	63	59	59	63	63	66	61	56	52	54	60	52	59	52	57	65	65	65	[illegible]
	Minimum	19	9	1	0	17	15	30	15	29	25	21	31	38	40	26	32	31	32	32	38	42	42	34	34	40	32	31	35	31	33	32	23.0
Lebanon §§	Maximum	17	15	14	21	25	41	39	35	38	38	42	53	58	45	50	47	51	54	63	59	54	45	51	62	53	55	49	54	65	65	62	46.2
	Minimum	14	3	-8	-5	4	10	12	13	15	23	27	25	22	30	24	24	29	27	28	34	41	40	30	31	37	22	28	28	27	24	28	22.4
Mountain Grove §§	Maximum	20	15	5	20	24	41	51	45	53	55	58	54	51	47	45	51	51	61	65	58	52	49	54	60	61	55	50	52	61	64	61	48.5
	Minimum	19	3	-6	-7	5	11	19	12	18	23	31	34	36	31	31	30	29	21	37	37	37	42	31	31	34	33	31	31	29	31	30	25.3
Neosho	Maximum	26	23	21	28	29	47	42	42	41	55	63	57	52	44	47	47	56	63	65	59	63	60	55	64	58	58	53	53	63	64	61	50.3
	Minimum	10	6	-5	-1	3	16	29	15	25	23	29	32	23	29	25	28	25	27	34	34	49	26	30	33	38	21	27	25	31	29	27	24.2
Rolla	Maximum	31	20	16	17	23	42	38	38	37	57	62	61	55	45	50	45	55	62	64	62	58	55	52	64	57	57	51	54	63	62	63	48.9
	Minimum	10	3	-8	-3	11	10	31	16	25	21	31	37	40	29	24	31	30	32	32	29	45	44	32	36	38	27	27	31	31	34	30	26.5
Springfield	Maximum	17	18	6	24	23	42	36	36	37	52	61	58	48	42	42	44	51	60	62	56	57	49	49	66	52	52	44	51	60	62	57	45.4
	Minimum	9	6	-6	-1	8	18	23	16	25	26	56	38	35	30	27	33	31	33	38	41	45	31	30	38	41	32	34	30	36	39	40	27.9
Southwest Plain.																																	
Amoret	Maximum	15	15	6	30	22	38	35	35	40	40	50	50	45	41	50	46	50	53	57	51	54	37	45	56	58	53	53	55	63	58	60	43.8
	Minimum	0	0	-13	-6	-1	16	25	8	21	21	22	33	28	27	20	26	30	30	28	22	31	34	32	30	32	25	33	28	29	30	28	22.2
Appleton City	Maximum	19	18	11	23	23	38	35	56	38	42	51	54	45	43	47	49	50	55	58	55	57	52	39	59	55	51	56	57	61	56	61	44.9
	Minimum	3	5	-10	-3	4	15	26	12	12	25	27	37	32	28	25	29	28	32	30	38	17	30	31	35	35	27	34	30	30	32	32	21.5
Clinton	Maximum	16	....	11	22	22	41	56	36	42	52	50	56	47	45	46	54	55	56	52	55	58	51	42	61	56	56	53	57	62	57	62	ᵉ47.0
	Minimum	4	....	-10	2	3	14	26	12	16	18	15	21	22	26	25	29	27	25	30	55	15	30	31	31	55	25	30	30	30	30	28	ᵉ22.9
Harrisonville §§	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Lamar §§	Maximum	15	22	10	28	44	38	38	38	46	48	60	59	42	44	47	47	52	55	62	65	56	42	49	57	58	57	48	55	58	62	62	47.0
	Minimum	7	7	-8	-1	6	28	14	6	26	25	26	35	31	31	23	28	25	29	30	36	31	40	30	34	23	32	30	25	31	31	35	24.1
Lamonte	Maximum	12	15	6	18	18	37	36	35	35	41	49	51	39	45	46	48	49	55	54	54	56	54	38	59	54	53	53	54	60	54	61	43.2
	Minimum	2	1	-12	-5	0	11	24	8	19	18	18	38	27	26	22	28	33	33	28	30	41	28	31	30	34	24	27	28	29	25	26	21.7
Marshall	Maximum	18	9	6	18	18	32	36	33	31	40	44	49	41	37	44	45	49	53	52	56	55	....	....	58	57	53	53	52	59	53	57	ᵇ41.8
	Minimum	1	-2	-13	-7	0	12	25	7	20	18	18	33	27	24	22	27	24	31	30	33	41	....	....	30	34	25	30	28	28	33	29	ᵇ21.0
Warrensburg	Maximum	15	14	6	21	19	39	35	37	34	44	51	53	40	45	49	49	52	58	58	51	56	48	36	60	55	54	53	55	63	54	62	44.1
	Minimum	2	3	-12	-5	0	12	25	11	24	25	22	35	29	27	26	29	28	31	32	38	41	33	31	33	34	31	33	30	33	34	30	24.2
Warsaw	Maximum	24	20	15	21	22	43	58	40	36	50	58	57	57	45	51	52	54	62	61	57	59	55	50	64	57	57	54	57	65	60	62	48.5
	Minimum	10	7	-10	-2	5	14	22	11	22	19	19	29	29	25	21	25	22	30	26	28	44	31	32	27	37	19	25	24	27	27	22	21.5
Northwest Plateau.																																	
Chillicothe	Maximum	21	9	13	18	20	31	34	35	37	41	38	47	44	44	45	46	49	53	47	52	54	47	44	59	56	56	50	51	64	56	56	42.6
	Minimum	1	-14	-18	-4	1	8	11	15	10	20	19	21	21	26	28	29	26	32	33	38	28	32	30	37	36	26	32	26	32	30	30	21.0
Grant City	Maximum	28	5	1	17	15	37	31	36	40	43	42	42	40	41	44	41	46	47	43	47	49	50	39	60	57	53	51	50	59	59	52	41.0
	Minimum	-7	-9	-19	-16	-9	3	20	5	22	20	10	28	24	23	26	22	25	27	30	32	40	31	31	31	32	26	30	26	28	30	29	19.1
Kansas City	Maximum	12	11	-3	26	20	37	33	35	38	41	46	48	44	43	46	47	51	55	53	52	54	42	40	59	54	53	49	56	63	52	60	42.5
	Minimum	-2	-5	-13	-4	2	20	21	16	28	28	19	34	32	29	30	30	35	37	34	40	42	34	30	40	37	38	40	33	38	35	35	26.2
Kidder §§	Maximum	13	12	12	12	15	40	25	42	46	45	40	46	50	41	47	49	50	50	57	58	65	58	52	69	60	62	44	62	69	59	60	45.5
	Minimum	-5	-6	-18	2	-7	13	24	8	22	28	12	26	25	21	23	27	28	32	31	35	43	32	32	37	32	30	35	28	33	29	30	22.0
Lexington §§	Maximum	17	13	-2	20	13	34	35	35	34	40	42	48	40	42	45	47	50	55	55	54	55	40	37	59	55	55	49	57	62	54	58	41.9
	Minimum	-2	-3	-15	-10	-2	11	26	10	24	24	12	33	28	26	25	29	28	35	30	34	43	35	32	33	36	32	35	31	34	34	30	23.2
Maryville §§	Maximum	13	3	0	20	17	37	30	35	35	36	37	42	37	40	43	45	43	49	50	44	46	34	42	59	57	54	50	50	59	52	63	39.4
	Minimum	-10	-11	-21	-23	-10	-10	9	2	9	19	13	13	25	15	19	19	24	23	27	27	32	29	28	27	29	27	30	23	23	29	28	15.0
Oregon	Maximum	10	7	-4	22	17	34	33	35	35	39	36	42	39	39	41	45	45	49	49	44	47	45	43	58	51	51	49	51	59	50	54	39.2
	Minimum	-9	-9	-20	-15	-8	10	16	6	22	22	13	31	26	21	21	24	25	28	28	31	40	29	26	32	30	27	31	26	30	29	28	19.1
St Joseph	Maximum	9	7	-6	21	16	38	33	36	35	41	40	45	38	41	45	45	50	51	53	50	50	40	43	61	53	53	49	54	61	73	57	40.7
	Minimum	-4	-9	-16	-6	-3	15	15	10	25	26	15	32	29	26	24	29	28	34	34	33	40	32	30	38	35	32	35	30	34	33	32	22.8
Trenton	Maximum	18	6	0	18	14	29	33	34	32	38	32	36	38	36	44	41	47	46	46	45	52	46	40	54	50	50	46	46	56	50	52	37.9
	Minimum	-4	-9	-17	-11	-4	6	18	7	21	20	12	21	26	24	28	25	26	29	27	29	41	32	32	30	32	29	32	29	31	30	30	20.1

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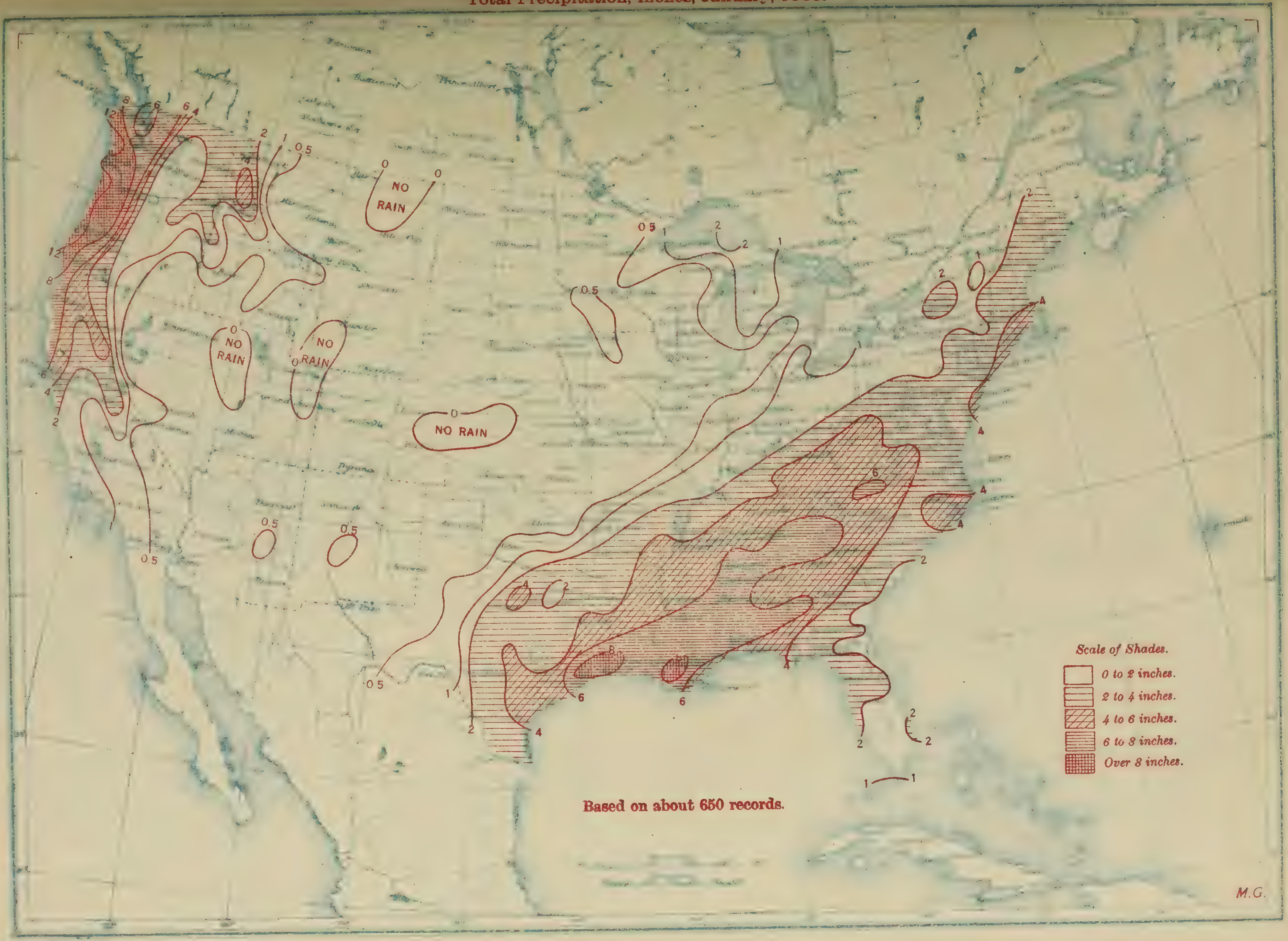
a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

Total Precipitation, Inches, January, 1919.



OBSERVERS' REMARKS.

Avalon—A remarkably fine month; no frost in the ground to hinder plowing of sod.

Grant City—January was favorable for all kinds of work; some plowing has been done. Wheat prospects good.

Kidder—The first ten days were very cold; the remainder of the month was continuous mild weather.

Brunswick—Mild temperatures prevailed. I picked blooming sweet violets, entirely unprotected, on January 30.

Fayette—Warmest January observed on local records, also very dry. Exceptionally fine weather most of the month.

Gorin—The first week was cold; but the remainder of the month was mild; no precipitation.

Kirksville—A remarkably fine month; averaged about 16° warmer than January, 1918; last 22 days temperature ranged from 38° to 59°. No precipitation.

Louisiana—Flies buzzing around 23d, 24th, and 25th.

Oakfield—This has been the driest month since the beginning of observations in June, 1892.

St. Catherine—The first five days of January average 1.5° colder than any consecutive five days of which there is a record here. The remainder of the month has been fine.

Warrenton—After the cold snap during the first week, the weather has been mild and springlike.

Jackson—The finest January in 40 years.

Farmington—This month has been remarkable for its uniform and mild temperatures; after the first six days the daily range was small; up to the last day the prevailing winds were from the northwest to the southwest.

Gano—This has been the mildest and driest January for many years; no rain and very little snow. Wheat looking fine.

Houston—This has been an exceptionally fine January, the mildest in many years. After the 6th we had continuous fine weather; especially favorable for stock.

Koshkonong—Remarkably fine weather for January.

Lockwood—This has been a beautiful winter month; the moisture was ample, although we had a large amount of sunshine. Wheat in good condition.

Rolla—Probably a record breaker for warm and fair January.

Appleton City—Least rainfall for January in several years; mild, open, and springlike. Roads fine but getting dusty.

Lamonte—A very unusually mild month. Some little plowing done the latter part. Wheat looks very good.

Warrensburg—January was unusual for large number of clear days and prevailing mild temperature.

Warsaw—After the 5th, the month was remarkably fine for farmers and feeders.

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M8

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

JUN [illegible] 1919

CLIMATOLOGICAL DATA

MISSOURI SECTION

IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

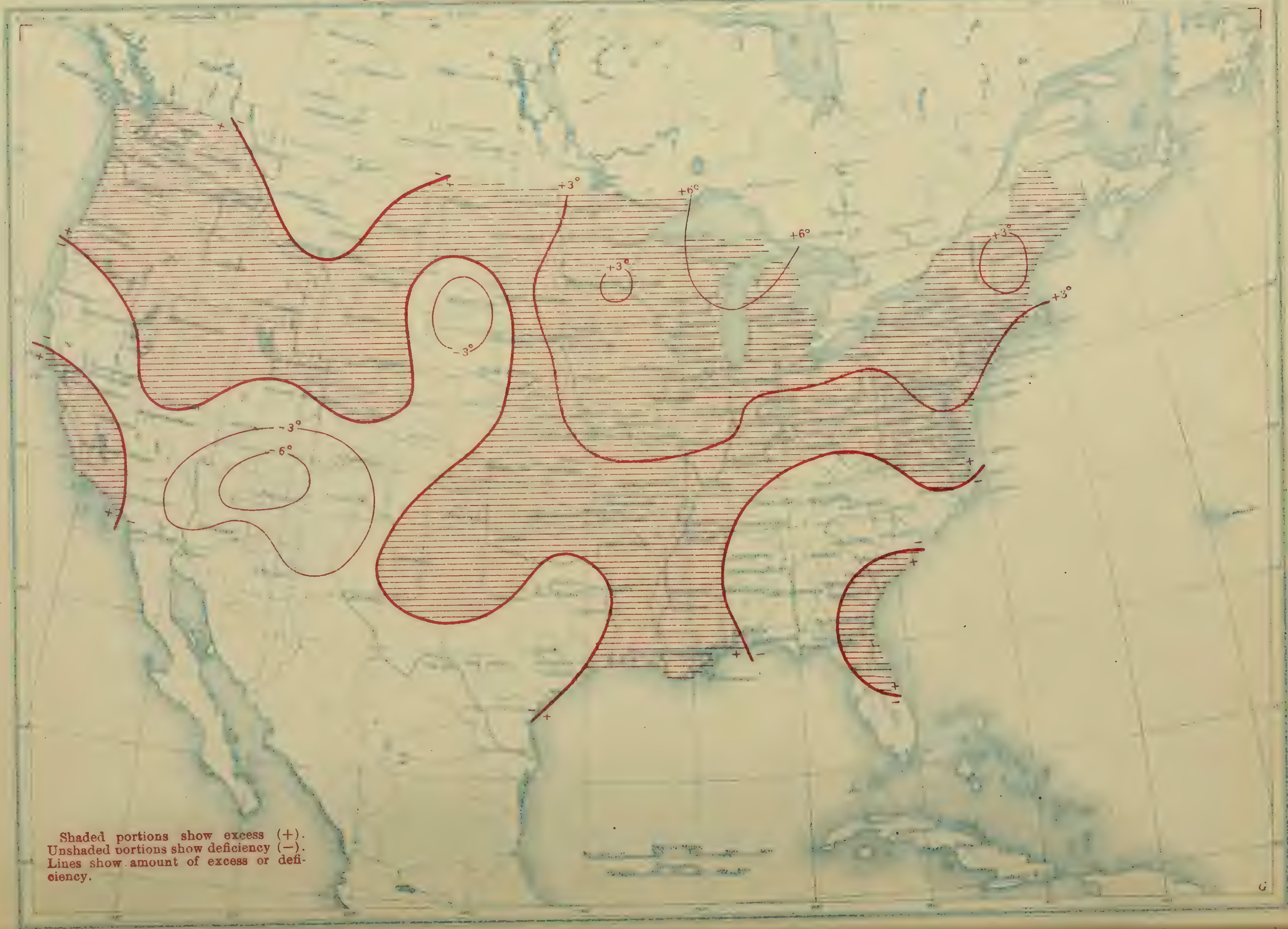
FEBRUARY, 1919

BY

GEORGE REEDER
METEOROLOGIST

COLUMBIA, MO.,
WEATHER BUREAU OFFICE
MARCH 24, 1919.

Departure of the Mean Temperature from the Normal, February, 1919.



Shaded portions show excess (+).
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXIII. Columbia, Mo., February, 1919. No. 2

GENERAL SUMMARY.

Like the preceding two months February in Missouri was quite mild most of the time. There were no severe temperature changes, and the moisture and sunshine were sufficient for present needs. February concluded the fifth consecutive month with positive temperature departures, though November was but slightly above normal. The winter of 1918-1919, for the State as a whole, ranks as one of the mildest, if not the mildest, in thirty years.

During the first ten days the soil was in such good condition that considerable plowing was done. At the close of the month wheat was in good to excellent shape. Stock was in good condition.

Somewhat cold, snowy and blustry weather on the 8th, 9th, and 28th slightly interrupted general traffic. Owing to the prevailing mild conditions no ice was harvested during the month, or during the winter.

TEMPERATURE.

The monthly mean temperature, 65 stations reporting, was 35.3°. The departure from the normal for 62 stations having 10 or more years' record was plus 4.0°. The temperature excess was quite marked in all divisions, but the southwestern and northeast plains, and northwestern plateau averaged about 2° warmer than the Ozark Plateau and southeastern lowlands. The 1st, 11th, and 12th were the warmest days, with maximum temperatures of 65° or higher north of the Ozarks, and 68° to 71° in the southern border counties. The 9th, 10th, and 28th were the coldest days, zero temperatures being more or less general, save in the southeastern lowlands. The minimum was −10°, at Neosho. Minimum temperatures were 32° or lower on 23 days; but there were only 6 typical winter days, i. e., days on which the maximum temperature did not rise above 32°.

PRECIPITATION.

The average precipitation, 82 stations reporting, was 1.98. The mean departure from the normal for 73 stations having 10 or more years' record was minus 0.35 inch. The western half of the State received normal or above normal precipitation, while the eastern half got less than normal, the most marked deficiency occurring in the southeastern lowlands where the total fall was 1.87 less than the usual February precipitation. There was not much precipitation during the first ten days. The greatest monthly amount, 3.70 inches, occurred at Warsaw, and the least, 1.02 inches, at Mexico. The greatest amount for any 24 consecutive hours was 2.20 inches, at Tarkio.

The average snowfall was 6.4 inches. This is slightly less than normal. Snows were more or less general on the 14th, 15th, 20th, and 28th. The greatest monthly fall was 17 inches, at Lebanon, Laclede County.

WIND.

The prevailing winds were from the northwest. The month was rather windy; the average hourly velocity, as recorded at 8 well distributed stations equipped with anemometers, was 11.7 miles, or about 10 per cent greater than normal. Fresh to strong winds, 39 to 50 miles per hour, occurred on the 12th, 14th, 25th, and 28th.

SUNSHINE AND CLOUDINESS.

The brightness of the month differed but little from the normal. The number of hours of sunshine, based upon records of 5 well selected stations, was 170. This is about 56 per cent of the possible and about 5 per cent above the normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense—11th, and 20th. Halos, solar—8th, 10th, 12th, 24th, 25th, 27th, and 28th. Lunar—4th, 6th, 10th, and 11th. Sleet—7th, 14th, 19th, 20th, 24th, 25th, 27th, and 28th. Thunderstorms (thunder heard) on the 3d, at Kansas City and St. Joseph.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.97	78	......	166	55	6,627	9.9	38	sw.	28
Hannibal	29.97	80	......	......	......	6,726	10.0	37	w.	28
Kansas City	29.96	77	68	170	56	9,065	13.5	12	nw	14
St. Joseph	29.96	83	68	157	52	7,401	11.0	42	nw	28
St. Louis	29.98	75	69	178	59	10,403	15.5	52	w.	28
Springfield	29.97	83	72	167	55	9,063	13.5	45	w.	28
Cairo, Ill	30.00	81	60	......	......	7,518	11.2	44	sw.	28
Keokuk, Iowa	30.00	82	73	178	58	6,110	9.1	43	w.	28

COMPARATIVE DATA FOR JANUARY.

Year.	Temperature.				Precipitation.				Number of Days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	33.0	+2.0	73	−11	2.04	−0.28	......	......	7	....	....	....
1889	29.3	−1.7	73	− 9	2.57	+0.25	......	......	7	....	....	....
1890	35.5	+4.5	81	− 7	2.24	−0.08	......	......	7	....	....	....
1891	32.7	+1.7	76	− 8	2.28	−0.04	......	2.4	6	....	....	....
1892	37.7	+6.7	71	2	4.15	+1.83	......	......	9	7	6	16
1893	27.9	−3.1	65	−20	1.98	−0.34	2.30	4.6	6	10	7	11
1894	30.8	−0.2	72	−12	2.52	+0.20	2.60	11.2	6	10	8	10
1895	23.6	−7.4	77	−26	0.55	−1.77	1.10	3.3	5	10	10	8
1896	35.6	+4.6	81	−10	1.61	−0.71	2.20	4.1	5	12	8	9
1897	34.8	+3.8	74	−15	2.30	−0.02	3.60	8.2	7	7	7	14
1898	35.4	+4.4	78	− 9	1.62	−0.70	2.90	0.8	5	13	6	9
1899	20.4	−10.6	72	−32	2.17	0.15	1.30	5.3	6	12	8	8
1900	26.2	−4.8	70	−16	3.92	+1.60	2.85	16.6	10	10	6	12
1901	28.1	−2.9	76	−19	1.63	−0.69	2.36	7.6	6	13	7	8
1902	24.0	−7.0	72	−17	1.50	−0.82	2.35	5.8	5	11	8	9
1903	29.8	−1.2	74	−25	2.92	+0.60	2.65	5.3	7	11	6	11
1904	30.0	−1.0	82	−18	0.91	−1.41	1.46	1.5	5	11	8	10
1905	21.5	−9.5	69	−40	1.64	−0.68	1.20	13.2	8	11	6	11
1906	33.7	+2.7	73	−13	2.28	−0.04	2.40	4.1	7	15	6	7
1907	34.8	+3.8	77	−15	1.65	−0.67	3.72	4.5	6	12	5	11
1908	35.6	+4.6	78	− 7	4.32	+2.00	4.28	4.1	9	13	6	10
1909	38.8	+7.8	71	− 4	3.38	+1.06	2.50	3.1	9	13	5	10
1910	28.3	−2.7	72	−24	1.98	−0.34	3.00	7.7	6	12	6	10
1911	38.1	+7.1	87	0	3.64	+1.32	2.08	6.3	8	12	5	11
1912	28.3	−2.7	72	−12	2.45	+0.13	3.20	11.9	6	10	7	12
1913	29.8	−1.7	78	− 9	2.21	− 0.18	4.78	8.5	7	12	5	11
1914	28.3	−3.2	75	−11	2.71	+0.42	2.80	14.0	7	12	6	10
1915	39.4	+8.0	72	7	3.18	+0.81	2.05	4.1	8	9	5	14
1916	31.1	+0.2	78	−12	0.98	−1.48	2.70	5.0	5	13	6	10
1917	30.5	−1.0	83	−22	0.41	−2.03	1.24	1.4	2	14	7	7
1918	31.9	+4.6	83	−25	1.11	−1.26	2.00	0.6	4	15	6	7
1919	35.3	+4.0	71	−10	1.98	−0.35	2.20	6.4	7	13	4	11

SUPPLEMENTAL TABLE OF DATA.

Stations.	Length of record, years.	Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
		Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Arlington	15	1.54	−1.37	0.40	8.5	7	21	0	7	......	Wm. R. Bennett.
Boonville	41	1.94	−0.61	0.56	7.7	7	13	1	14	se.	C. Randecker.
C. Girardeau	11	2.01	−0.40	0.60	1.0	8	12	1	15	......	D. L. Albert.
Glencoe	1	1.94	....	0.37	4.3	8	15	0	13	....	L. M. Beard.
Hermann	44	2.06	0.37	0.50	11.0	10	13	2	13	w.	W. E. Crawford.
New Madrid	24	2.00	−2.13	0.50	1.0	10	12	1	15	n.	Miss Josie Smith.
Osceola	18	1.19	−0.77	0.57	2.0	4	13	2	13	......	Wm. E. Mathews.
Pacific	1	1.70	....	0.35	4.6	7	13	2	13	w.	Mark Waters.
Steelville	16	1.60	−0.93	0.37	9.0	9	16	0	12	w.	A. Kreamelmeyer.
Tuscumbia	1	2.11	....	0.46	2.0	10	13	1	14	s.	C. B. Wright.
Union	1	2.01	....	0.59	2.9	9	13	0	15	se.	J. Wm. Keller.
Valley Park	1	1.46	....	0.30	2.1	8	13	4	11	e.	T. W. McNeese.
Waverly	3	1.99	....	0.76	11.5	11	15	1	12	nw.	J. W. Cauthorn.

Climatological data for February, 1919.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.: Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches.: Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of days.: With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Northeast Plain.																				
Brunswick	Chariton	650	37	33.4	+4.9	68	11	9	28	47	1.05	−0.96	0.40	10.0	5	15	0	13	se.	Louis Benecke.
Clifton Hill	Randolph	731	20	35.4	+8.1	60	11	6	28	45	2.12	+0.16	0.90	11.0	4	13	6	9	......	L. S. Harlan.
Columbia	Boone	784	30	35.1	+5.0	63	12	10	28	37	1.73	−0.40	0.70	9 0	7	13	3	12	se.	U. S. Weather Bureau.
Fayette	Howard	725	32	30.9	+0.9	57	11	7	9	33	2.20	+0.12	0.60	9.8	9	6	2	20	nw.	Prof. T. B. Smith.
Fulton	Callaway	818	13	35.9	+3.7	63	12	11	9†	42	1.72	−0.38	0.62	6.7	7	14	2	12	se.	Dr. C. J. Elmore.
Gorin	Scotland	700	28	......	......	......	......	......	......	....	1.26	−0.36	0.46	5.3	6	9	7	12	se.	J. W. Pulliam.
Hannibal	Marion	534	24	33.3	+4.2	60	11	10	9	37	2.22	+0.62	0.76	8.2	9	12	3	13	nw.	U. S. Weather Bureau.
Jefferson City	Cole	557	31	38.6	+7.8	64	12	9	9	43	1.86	−0.28	0.50	11.3	11	15	5	8	n.	Miss Emma Swift.
Keytesville	Chariton	660	4	......	......	......	......	......	......	....	......	......	......	......	...	....	....	....	......	J. T. Dewey, M. D.
Kirksville	Adair	969	25	31.2	+6.3	63	11	− 8	28	57	1.19	−0 74	0.58	4.5	6	12	7	9	w.	Prof. Mark Burrows.
Louisiana	Pike	469	39	34.1	+5.7	66	12	10	9	34	2.74	+0.27	1.05	11.5	5	14	4	10	s.	J. T. Farrell.
Macon††	Macon	875	19	30.8	+2.7	61	11	6	9	41	2.13	−0.05	0.58	8.2	8	12	3	13	ne.	Minnie N. Tolman
Mexico	Audrain	797	39	33.4	+4.7	61	11†	9	9	47	1.02	−1.43	0.45	2.0	3	15	0	13	e.	Mrs. Abbie Snoddy.
Oakfield	Franklin	793	36	35.8	+3.7	62	11	11	9	35	1.74	−0.77	0.54	7.0	6	9	10	9	s	E. E. Steines.
Palmyra	Marion	652	17	33.2	+6.4	58	11†	11	26	41	2.06	−0.23	0.85	4.5	4	13^{a}	0^{a}	14^{a}	nw.	W. B. Markell.
St. Catherine	Linn	850	8	32.6	....	61	11	4	28	43	1.38	....	0.56	7.7	6	12	7	9	nw.	L. D. Baker.
St. Charles	St. Charles	456	39	36.6	+4.9	63	11	13	9	33	1.10	−1.80	0.38	0.5	5	9	6	13	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	46	36.7	+3.2	59	11	16	9	33	1.54	−1.21	0.44	3.1	8	13	7	8	nw.	U. S. Weather Bureau.
St. Louis (2)	do	578	7	35.8	.... .	59	11	15	9	33	1.57	....	0.50	4.4	9	10	6	12	w.	St. Louis University.
Shelbina	Shelby	779	25	......	......	......	......	......	......	....	1.70	−0.49	1.20	2.6	3	....	....	....	......	S. G Parsons.
Steffenville	Lewis	650	21	34.4	+7.1	60	11	8	28	38	2.03	−0.02	0.80	9.5	5	10	6	12	nw.	Frank Hall.
Unionville	Putnam	1,072	24	31.4	+7.1	63	11	2	28	40	2.52	+0.52	0.96	13.5	7	16	3	9	n.	Geo. W. Davis.
Warrenton	Warren	865	26	33.4^{a}	+4.0	60	11	10	9	46	2.46	−0.05	0.52	8.5	9	8	7	13	nw.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	46	31.4	+4.8	62	11	6	28	36	1.57	−0.05	0.67	4.7	9	14	4	10	w.	U. S. Weather Bureau.
Section means and	extremes	....	....	34.1	+5.1	68	11	− 8	28	57	1.76	−0.37	1.20	7.1	6	12	5	11	nw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	26	44.4	+6.4	71	1	18	9	38	2.16	−1.87	0.52	1.5	7	14	2	12	e.	H. E. Averill.
Doniphan	Ripley	344	12	39.2	−1.8	61	12	8	10	35	1.64	−2.00	0.50	3.0	7	16	2	10	nw.	W. W. Martin.
Jackson	Cape Girardeau	458	26	39.6	+4.6	65	11	12	10	37	1.43	−1.68	0.66	0.5	5	11	3	14	s	L. M. Bean.
Marble Hill	Bollinger	420	25	40.5	+5.6	68	1	12	9	38	1.80	−1.69	0.70	0	5	13	7	8	s.	W. A. Kinder.
Patton (near)	Bollinger	500	3	......	......	......	......	......	......	....	2.00	....	0.70	1.0	5	....	....	....	......	George F. Ellis.
Poplar Bluff	Butler	339	13	41.0	+5.4	65	1	14	9	38	1.56	−1.92	0.53	0.6	6	16	1	11	......	Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill	359	44	39.6	+2.0	60	12	18	9	33	1.25	−2.08	0.46	1.1	9	11	4	13	s.	U. S. Weather Bureau.
Section means and	extremes	....	....	40.7	+3.7	71	1	8	10	38	1.69	−1.87	0.70	1.1	6	14	3	11	s.	
Ozark Plateau.																				
Arcadia	Iron	925	39	35.2	+1.9	64	12	6	10	56	1.94	−1.45	0.64	4.0	8	12	6	10	se.	Arcadia College.
Birchtree	Shannon	1,078	23	37.6	+3.4	62	1	4	10	33	1.73	−1.03	0.50	2.0	6	16	3	9	s.	V. H. Kirkendall.
Bolivar	Polk	1,071	29	37.4	+3.3	63	1	4	9	46	2.53	+0.11	1.07	8.0	6	12	4	12	s.	K. H. Brown.
Cassville	Barry	1,500	10	39.0	+0.6	71	12	− 2	10	48	2.33	+0.27	0.95	5.6	5	16	2	10	se.	William Talbert.
Dean	McDonald	1,000	18	38.6	+4.8	66	11†	− 8	9	46	2.08	+0 01	0.60	5.5	9	15	3	10	se.	H. E. Dean.
Eldon	Miller	934	16	33.5	+1.8	60	11	4	9	38	1.12	−1.37	0.48	7.0	5	12	8	8	e.	E. H. Shepherd.
Farmington	St Francois	918	8	36.9	+1.3	63	11	10	9	35	1.72	−1.64	0.50	4.0	6	14	3	11	ne.	Robert Forsyth.
Gano	Dent	1,250	13	35.4	+1.0	63	1	2	9	36	2 14	−0.58	0.65	8.5	6	13	6	9	nw.	A. C. Leach.
Goodland	Iron	1,000	12	36.1	+3.8	64	11	2	9†	39	1.95	−0.82	1.30	1.0	2	18	1	9	n.	F. M. Adams.
Hollister	Taney	735	33	33.2	−4.7	58	12	0	9	38	1.38	−1.22	1.10	0	2	14	0	14	sw.	W. P. Chapmann.
Houston	Texas	1,280	24	37.4^{a}	+5.2	63	1†	2	10	35	1.98	−0.47	0.52	6.0	6	15	2	11	se.	R. F. Harmon.
Koshkonong	Oregon	958	18	39 4	+2.8	65	1	8	9	31	2.55	−0.56	0.70	4.0	8	15	5	8	nw.	R. M. Hitt.
Lebanon	Laclede	1,265	28	33.4	−0.5	62	1†	− 2	9	49	2.69	+0.02	0.95	17.0	5	9	9	10	nw.	Leonard E. Dickerson.
Lockwood	Dade	1,078	22	37.0	+2.0	64	23	4	9	50	1.83	−0.38	0.75	10.0	5	12	1	15	sw.	C. S. Crow.
Mountain Grove	Wright	1,490	18	34.6	+1.1	64	1	5	9	33	1.98	−0.59	0.91	6.5	7	14	4	10	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	31	38.3	+2.0	65	24	−10	9	51	2.31	−0.22	0.81	5.0	9	15	4	9	sw.	W. O. Buck.
Rolla	Phelps	1,139	35	37.6	+2.2	64	12	3	9	41	2.46	+0.13	0.83	6.0	8	16	4	8	s.	Prof. Elmo G. Harris.
Springfield	Greene	1,350	29	35.8	+2.2	63	24	5	9	43	2.44	+0.17	0.63	12.7	9	15	2	11	se.	U. S. Weather Bureau.
Section means and	extremes	....	....	36.5	+1.9	71	12	−10	9	56	2.07	−0.53	1.30	6.3	6	14	4	10	se.	
Southwest Plain.																				
Amoret	Bates	831	12	35.6	+2.1	60	1†	3	28	43	1.98	−0.72	0.70	8.7	7	11	8	9	s.	Darby Fruit Farm.
Appleton City	St. Clair	853	26	37.0	+5.3	62	1†	6	9†	46	2.05	−0.11	0.60	6.7	6	11	8	9	se.	W. G. Bigelow.
Clinton	Henry	765	30	35.7	+4.3	64	12	5	9	35	2.44	−0.18	0.65	4.0	5	10	6	12	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	912	44	......	......	......	......	......	......	....	......	......	......	......	...	....	....	....	......	A. J. Sharp.
Lamar	Barton	980	36	36.6	+2.5	68	12	3	9	41	1.81	−0.60	0.68	7.0	5	14	1	13	s.	Joe W. Springer.
Lamonte	Pettis	863	28	35.4	+4.2	61	12	4	9†	45	2.13	+0.09	0.85	8.0	6	10	8	10	nw.	J. Ed. Hall.
Marshall	Saline	779	26	34.9	+5.9	59	11	5	28	48	2.52	+0.57	1.15	5.2	7	9	6	13	se.	Dr. W. H. Black.
Nevada	Vernon	860	23	38.2	+6.8	63	12	6	28	50	1.77	−0.40	0.54	6.0	7	9	7	12	s.	George A. Kaupp.
Warrensburg	Johnson	883	38	......	......	......	......	......	......	....	......	......	......	......	...	....	....	....	......	Geo. H. Collins.
Warsaw	Benton	715	12	37.0	+3.7	64	12	− 5	9	48	3.70	+1.11	1.15	7.0	8	7	13	8	w.	J. R. Smith, M. D.
Section means and	extremes	....	....	36.3	+4.4	68	12	− 5	9	50	2.30	−0.03	1.15	6.6	6	10	7	11	s.	
Northwest Plateau.																				
Avalon	Livingston	730	31	33.9	+5.1	64	11	10	25†	38	2.43	+0.26	1.05	12.0	5	13	5	10	nw.	F. G. Ashbaugh.
Bethany	Harrison	916	27	32.3	+6.1	60	11	2	28	50	2.29	+0.73	1.24	6.0	5	6	9	13	nw.	M. H. Moulton.
Chillicothe††	Livingston	768	10	35.2	+3.4	65	11	4	28	47	0.67	−1.86	0.43	4.7	4	16	5	7	sw.	R. L. Isherwood.
Conception	Nodaway	982	32	30.8	+4.4	62	11	− 1	28	44	1.98	+0.72	1.00	3.5	8	8	7	13	nw.	Fr. Adelhelm Hess.
Gallatin	Daviess	803	17	......	......	......	......	......	......	....	2.31	+0.62	1.00	10.9	8	16	2	10	nw.	Robert R. Wynne, Jr.
Grant City	Worth	1,134	24	31.6	+5.0	63	11	0	28	45	3.02	+1.89	2.00	9.0	5	9	7	12	nw.	W. H. Campbell.
Kansas City	Jackson	963	28	34.2	+4.3	61	11	3	28	30	2.09	+0.50	0.58	13.1	10	11	6	11	nw.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	26	36.0	+9.3	68	2	2	28	35	2.18	+0.55	0.92	9.8	8	15	2	11	nw.	J. F. Sharp.
Lexington	Lafayette	688	35	34.2	+5.2	61	11	7	28	29	2.20	+0.11	0.77	15.0	8	13	0	15	n.	J. W. Keithley.
Liberty	Clay	864	28	36.0	+6.6	64	11	4	28	49	2.11	+0.17	0.68	12.2	6	12	3	13	nw.	W. C. Wilmott.
Maryville	Nodaway	1,036	26	27.6	+4.3	62	11	− 1	28	49	2.65	+1.15	1.62	5.0	9	8^{j}	1^{j}	9^{j}	......	J. R. Brink.
Oregon	Holt	1,048	61	30.7	+2.7	58	11	− 2	28	49	1.97	+0.27	0.50	10.3	5	9	6	13	se.	Tom Curry.
St. Joseph	Buchanan	967	45	32.6	....	61	11	2	28	39	2.26	+0.92	0.86	6.2	12	13	4	11	nw.	U. S. Weather Bureau.
Tarkio	Atchison	976	17	31.0	+4.2	62	11	0	28	34	2.53	+1.47	2.20	3.0	3	12	5	11	nw.	John F. Frazier.
Trenton	Grundy	822	22	31.9	+4.2	58	11†	3	28	42	2.25	+0.57	0.93	9.0	8	12	5	11	nw.	W. H. Estes.
Section means and	extremes	....	....	32.5	+5.1	68	2	− 2	28	50	2.30	+0.71	2.20	8.9	7	11	5	12	nw.	
State means and	extremes	....	....	35.3	+4.0	71	1†	−10	9	57	1.98	−0.35	2.20	6.4	7	13	4	11	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ᵃ, ᵇ, ᶜ, appearing in the table indicate number of days missing; for example, ᵇ represents two days, etc.

† Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Oakfield, Pacific, R. F. D. No. 1; of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily precipitation for February, 1919.

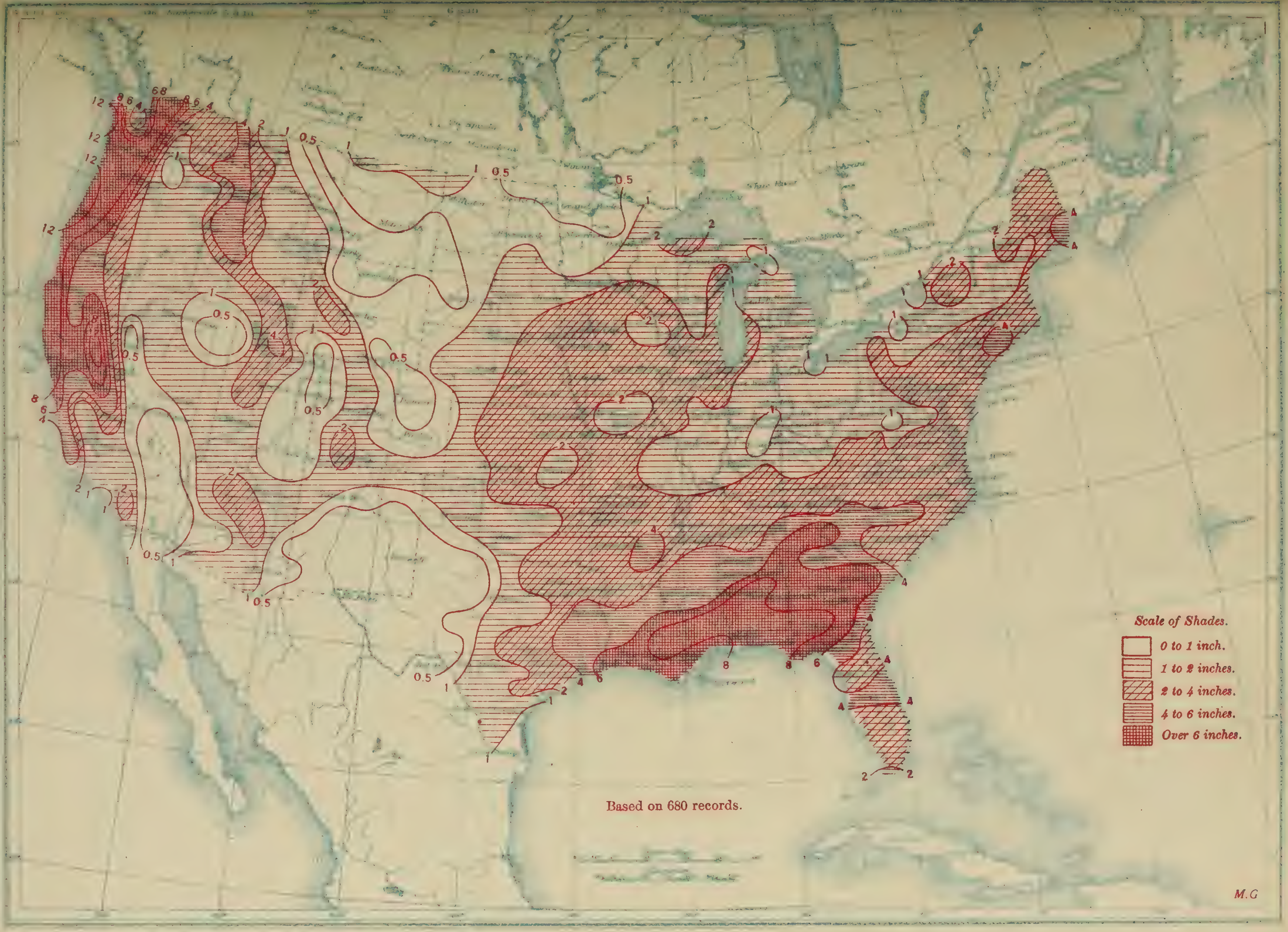
Stations.	Watersheds.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville ‖	Missouri			.22					T.					.33	.56	.08	T.				.42	.13	.20	T.		T.			T.				1.91
Brunswick	Grand													.25	.16						.40		.21						.03				1.05
Clifton Hill	Chariton		T.											.90	.07						.75		.40										2.12
Columbia***	Missouri		T.						T.				.39	.25	.10	.02					.70		.22		T.				.05				1.73
Fayette	do			.18										.50	.30	.10				.60	.10	.10	.25					.07					2.20
Fulton	do		.01						T.					.60	.10	.08					.62	T.	.20						.11				1.72
Glencoe ‖	Meramec													.37	.19	.22					.30	.29	.33			.05			.19				1.94
Gorin	Mississippi						.04							.46	.37	T.					.23		.13		.03				T.				1.26
Hannibal***	do		.01				T.						.08	.69	.30	.02					.76		.22			.09			.05				2.22
Hermann	Missouri		T.	.02					T.	T.				.38	.31	.19	.02				.23	.50	.35	.01		T.			.02				2.06
Jefferson City ‖	do		.03						.03				.50	.20	.01	T.					.35	.12	.35	.02	.20				.05				1.86
Keytesville	Chariton																																
Kirksville	Mississippi													.58	.02	.02					.27		.23						.07				1.19
Louisiana	do		T.											.09	1.00	.10					1.05		.50						T.				2.74
Macon	Chariton			.02										.45		.58					.22	.23	.05			.40			.18				2.13
Mexico ‖	Mississippi													.45	.20	T.							.37										1.02
Oakfield	Meramec		T.						T.			T.		.54	.20	.10					.51	T.	.33			T.			.06				1 74
Pacific ‖	do									T.				.30	.16	.35					.27	.23	.34	.05									1.70
Palmyra	Mississippi													.85	.62						.50					.09							2.06
St. Catherine	Grand		T.	T.										.48	.10	.03					.56		.07		T.	T.			.14				1.38
St. Charles	Missouri		T.											.30	.13	T.					.38		.20						.09				1.10
St. Louis (1)***	Mississippi		T.	T.				T.				T.	.10	.32	.10	.05					.42		.44			.01			.10				1.54
St. Louis (2)	do		T.	.02									.16	.29	.07	.02					.50		.40			.04			.07				1.57
Shelbina	do													1.20	.10						.40								T.				1.70
Steffenville	do		T.											.80	.42	.31					.30		.20	T.		T.			T.				2.03
Union ‖	Meramec			.01						.01				.59	.15	.12					.28	.48	.30	.10					T.				2.04
Unionville ‖	Grand		T.	.20		T.	.04							.76	.20						.61		.20		T.				.51				2.52
Valley Park ‖	Meramec			.10										.30	.30	T.	.01				.10	.25	.20	T.					.20				1.46
Warrenton	Mississippi			.02					T.				.52	.41	.28	.02					.38	.46	.32	.05					T.				2.46
Keokuk, Iowa***	do		T.	T.			.03							.67	.27	.02					.33		.10		.04	.02			.09				1.57
Southeast Lowlands.																																	
Cape Girardeau	Mississippi				.20					.10				.60	.05	.01					.40	.35	.30										2.01
Caruthersville	do		T.	.05				.12	T.	.23			T.	.26	T.	T.					.50		.52		T.	.48							2.16
Doniphan	Black		.03	.18					.30					.25	T.						.50		.33						.05				1.64
Jackson	Mississippi			.10					.04				.53								.66								.10				1.43
Marble Hill	do											.10		.40							.70			.50					.10				1.80
New Madrid ‖	do			.01	.05				.01	.19				.30		.13					.38	.28	.50			.15							2.00
Patton (near)	do								.10				.50						.70				.40						.30				2 00
Poplar Bluff	Black		.02	T.			T.	T.	.06				.50	.03	T.						.53	T.	.42			T.			T.				1.56
Cairo, Ill.***	Mississippi		T.	.03				T.	.11				.13	.12	.01	T.					.46		.28		T.	.01			.10				1.25
Ozark Plateau.																																	
Arcadia ‖	Gasconade			.04	T.					.11				.64	.04	.01					.49	.16	.45										1.94
Arlington ‖	Black									.09				.20	.10	.25					.20	.30	.40	T.					T.				1.54
Birchtree	Osage		.13	.07					.23					.40	T.						.40		.50										1.73
Bolivar	White								.24				.05	1.07	T	T.					.32		.45			.40			T.				2.53
Cassville	Gasconade	T.		T					.50				.25	.95							.30		.33										2.33
Dean	Osage		.02	.12					.50		T.		.38	T.	.06							.60	.10			.15			.15				2.08
Eldon	Black								.04				.12	.24	T.	T.					.48		.24						T.				1.12
Farmington	Meramec		.03						.06					.50	T.	T.					.50	.16	.47						T.				1.72
Gano	Black		T.						.30					.59	.18	T.					.60	.05	.42						T.				2.14
Goodland	White													1.30							.65												1.95
Hollister	Gasconade																				1.10	.28											1.38
Houston	Mississippi		T.						.45			.15	T.	.52	.05	T.	T.				.48		.33						T.				1.98
Koshkonong	Black		.18	.15					.40					.70	.20						.46		.41			.05			T.				2.55
Lebanon ‖	Osage								.50					.20	T.	T.				.34	.95		.70			T.			T.				2.69
Lockwood	do		T.						.13				.15	.75	.23		T.						.57						T.				1.83
Mountain Grove ‖	White		T.	.07						.43				.91	.09	T.					.28	.11	.09	T.									1.98
Neosho	Neosho		T.	.17				T.	.26				.11	.81	.02						.25		.50			.17			.05				2.34
Rolla	Meramec		.08						.23					.50	.05	.06					.83		.69						.02				2.46
Springfield ***	White		.02					T.	.36				.32	.21	.08	T.				T.	.34		.63		.38				.10				2.44
Steelville ‖	Meramec			.05						.17				.20	.10						.35	.19	.37	.12					.05				1.60
Tuscumbia ‖	Osage		T.	.02					T.	.09				.46	.31	.03	T.				.39	.11	.30	.02		.38			T.				2.11
Southwest Plain.																																	
Amoret	Osage		T.					T.	.70				.11	.22	.03	T.					.62		.19			T.			.11				1.98
Appleton City	do		T.					T.	.14					.57	T.	.07					.60		.53			T.			.14				2.05
Clinton	do									.58				.65	.50	.18					.53								T.				2.44
Harrisonville ‖	do																																
Lamar ‖	Neosho									.20				.68	.12						.31	.50											1.81
Lamonte	Missouri			T.					.08				T.	.85		.10					.65		.35						.10				2.13
Marshall	do		T.	T.					.02					1.15	.13	.10					.70		.32	T.		T.			.10				2.52
Nevada	Osage		T.						.07				.38	.36	.01						.54		.25						.21				1.77
Osceola	do								T.					.57	.24	T.					.27	.11	T.	T.					T.				1.19
Warrensburg	Missouri																																
Warsaw	Osage		T.	.20					.15		T.		T.	1.15	.40	T.					.65		.75			.05			.35				3.70
Waverly ‖	Missouri								.02	.01				.56	.27	.02	.03				.76	.07	.04	.09					.12				1.99
Northwest Plateau.																																	
Avalon	Grand												.90	.15							.74	.23							.41				2.43
Bethany	do		T.	.30			T.							1.24	.15	T.					.30				T.				.30				2.29
Chillicothe	do													.08							.43		.11						.05				0.67
Conception	Missouri	T.	T.	.45			T.						.06	1.00	.09	.06					.16				.06				.10				1.98
Gallatin	Grand	T.	T.	.02										1.00	.10	.02					.50		.02		.05				.60				2.31
Grant City	do	T.	T.	T.			T.	T.						2.00	T	.22					.40		.10						.30				3.02
Kansas City***	Missouri		T.	.03			T.		.08				.50	.15	.16	.04				T.	.52		.03		T.	T.		.02	.56				2.09
Kidder ‖	Grand		.02						T.				.92	.15		.03					.41	.15			.02				.48				2.18
Lexington ‖	Missouri								T.	.09				.55	.13		.05				.77	.14		.07					.40				2.20
Liberty	do								.09				T.	.65	.10						.68		.05						.54				2.11
Maryville ‖	do		.10	.40								.02		1.62	.20	.10					.10		T.		T.	.01			.10				2.65
Oregon	do	T.		.46			T.		T.			T.		.50		.40					.18		T.		T.				.43				1.97
St. Joseph***	do	.01	.09	.44			T.		.03				.62	.30	.09	.01					.43		T.		.03	T.		.04	.17				2.26
Tarkio	do			.11										2.20							.22												2.53
Trenton	Grand	T.	.04				T.						.93	.16	.03	T.					.30		.03		.02				.74				2.25

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. **Precipitation in the next following measurement. ‡ Separate dates of fall not recorded

Daily temperatures for February, 1919.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	52	52	42	31	41	42	34	33	33	42	68	58	51	37	27	43	52	49	54	56	31	38	45	53	30	49	52	17	....	....	....	42.7
	Minimum	30	31	33	16	18	21	12	18	10	13	21	30	18	35	23	19	21	22	36	32	31	29	22	31	13	13	25	9	....	....	....	24.1
Columbia	Maximum	55	50	48	32	39	47	52	25	29	42	60	63	53	28	26	39	50	41	51	41	55	33	45	56	31	49	57	47	....	....	....	43.8
	Minimum	32	41	25	13	22	30	21	18	19	17	30	40	37	26	24	22	33	29	31	32	32	35	29	31	16	20	32	10	....	....	....	26.4
Fayette	Maximum	50	47	47	27	36	43	27	23	26	40	57	55	54	33	23	27	46	42	48	33	[illegible]	52	43	52	28	45	52	44	....	....	....	39.6
	Minimum	25	25	22	13	16	25	18	13	7	13	26	31	30	21	20	17	28	23	28	29	[illegible]	27	26	28	10	15	28	11	....	....	....	22.2
Hannibal	Maximum	45	53	43	50	58	40	28	27	30	51	60	57	54	42	29	39	48	43	47	35	37	36	45	51	29	44	50	47	....	....	....	41.7
	Minimum	28	30	24	16	29	25	17	14	10	17	31	36	38	29	25	23	32	26	29	30	32	29	28	29	12	18	28	10	....	....	....	24.9
Jefferson City §§	Maximum	58	50	50	32	40	46	50	25	27	43	59	61	51	37	29	40	51	45	52	42	50	37	49	57	28	36	57	22	....	....	....	42.8
	Minimum	32	32	40	18	18	24	25	18	9	10	16	31	40	31	23	23	25	28	29	24	31	29	28	23	18	17	20	13	....	....	....	24.1
Kirksville	Maximum	44	45	45	30	35	32	28	27	30	45	63	58	51	45	36	39	48	42	47	42	45	38	39	48	46	49	48	49	....	....	....	42.2
	Minimum	26	33	24	10	16	27	7	10	6	11	27	52	41	36	22	17	29	22	27	29	28	25	23	31	6	4	5	− 8	....	....	....	20.3
Louisiana	Maximum	45	45	54	52	57	40	58	50	52	40	60	66	64	47	38	38	52	47	41	42	38	37	15	41	58	35	47	44	....	....	....	44.2
	Minimum	20	37	40	18	11	28	22	15	10	12	30	32	45	38	18	24	29	21	18	30	32	32	26	28	15	12	11	12	....	....	....	24.0
Macon §§	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Mexico §§	Maximum	50	45	50	55	50	50	32	26	31	32	61	61	52	38	28	40	52	45	50	30	32	45	47	52	40	47	55	55	....	....	....	44.1
	Minimum	28	29	50	16	12	17	21	15	[illegible]	13	14	30	20	34	22	21	25	24	22	24	23	28	23	25	15	14	18	22	....	....	....	22.6
Oakfield	Maximum	52	44	58	55	38	17	58	27	8	10	62	60	54	38	33	43	52	17	48	41	42	55	48	57	51	48	55	50	....	....	....	45.5
	Minimum	31	36	54	18	19	27	24	17	13	13	[illegible]	42	36	30	24	23	23	23	24	30	32	25	25	26	20	15	29	15	....	....	....	26.2
St. Catharine	Maximum	38	50	41	33	38	37	32	24	25	14	61	50	51	47	[illegible]	[illegible]	[illegible]	[illegible]	40	44		37	45	48	45	44	50	47	....	....	....	43.2
	Minimum	28	36	24	12	16	27	12	13	5	14	25	35	44	28	21	15	28	22	28	22	28	27	23	33	8	14	19	4	....	....	....	22.1
St. Louis (1)	Maximum	50	44	59	31	38	46	28	25	39	41	59	57	55	28	[illegible]	3	52	16	40	41	41	38	49	56	49	45	57	50	....	....	....	43.9
	Minimum	33	46	50	22	27	31	23	18	1	20	25	42	[illegible]	53	28	24	31	30	30	34	34	31	33	37	21	26	30	17	....	....	....	28.5
Unionville	Maximum	46	50	46	20	42	36	23	24	20	45	65	61	56	48	3	41	46	45	50	40	38	36	44	46	39	41	48	42	....	....	....	42.5
	Minimum	25	32	20	10	13	24	4	8	5	12	32	30	45	22	18	16	30	22	28	26	28	25	24	30	5	12	20	2	....	....	....	20.3
Warrenton §§	Maximum	49	45	53	32	46	47	34	23	25	44	60	59	50	40	27	42	70	46	47	50	34	35	48	55	26	48	....	55	....	....	....	a43.1
	Minimum	29	30	35	18	18	19	27	16	10	12	11	32	40	32	22	22	22	20	25	28	30	29	26	28	18	16	16	16	....	....	....	a23.7
Southeast Lowlands.																																	
Caruthersville	Maximum	71	55	57	55	50	58	50	45	37	16	65	66	61	49	36	47	63	64	61	67	61	55	60	61	56	52	62	57	....	....	....	56.0
	Minimum	35	45	48	21	28	28	37	29	18	19	32	41	49	32	30	25	28	31	32	35	32	39	28	36	33	22	27	30	....	....	....	32.9
Doniphan	Maximum	60	51	59	55	46	49	48	52	32	28	59	61	56	40	34	45	60	57	51	55	54	47	51	57	49	44	50	52	....	....	....	49.5
	Minimum	28	43	45	27	25	25	30	23	13	8	30	30	43	32	28	25	25	27	31	37	29	35	30	35	27	18	24	23	....	....	....	28.8
Jackson	Maximum	64	55	57	54	43	44	41	32	33	40	65	60	59	48	38	40	58	52	53	55	58	41	54	57	55	44	55	54	....	....	....	50.4
	Minimum	25	45	47	26	22	24	27	22	14	12	32	27	17	32	28	27	28	[illegible]	26	35	37	33	22	35	26	18	27	25	....	....	....	28.8
Marble Hill	Maximum	68	57	55	51	42	45	46	39	37	40	63	64	[illegible]	51	30	41	60	42	59	60	58	55	58	56	56	43	51	60	....	....	....	52.4
	Minimum	30	42	38	26	21	22	27	22	12	13	31	31	37	[illegible]	29	26	26	27	25	33	30	35	36	33	30	12	23	24	....	....	....	27.6
Poplar Bluff	Maximum	65	51	55	52	45	53	50	37	37	43	63	65	61	45	25	46	61	57	56	58	54	46	57	58	53	42	52	52	....	....	....	51.3
	Minimum	31	42	36	26	25	24	36	22	14	19	31	33	47	31	29	26	26	30	29	36	39	36	31	36	31	31	22	26	....	....	....	30.1
Ozark Plateau.																																	
Arcadia §§	Maximum	60	40	58	42	43	47	34	25	32	40	61	57	57	38	29	45	57	55	50	46	46	38	55	59	38	46	51	50	....	....	....	46.2
	Minimum	25	25	30	25	18	17	26	21	10	6	8	30	16	33	24	24	21	21	22	24	31	31	29	31	29	11	16	30	....	....	....	21.1
Birchtree	Maximum	62	53	61	42	41	42	44	32	30	35	61	61	56	57	34	48	52	58	56	53	49	41	53	57	51	41	53	48	....	....	....	48.6
	Minimum	32	35	41	21	12	27	30	21	8	4	27	38	37	29	23	22	24	29	30	23	31	32	28	5	27	14	27	17	....	....	....	26.5
Cassville	Maximum	66	59	52	57	50	52	45	35	31	42	62	71	57	31	29	41	57	61	56	53	50	45	55	66	59	52	58	55	....	....	....	51.9
	Minimum	30	45	[illegible]	22	18	22	27	19	10	2	32	47	32	26	22	12	26	25	34	32	32	31	24	39	23	17	30	7	....	....	....	26.1
Eldon	Maximum	55	50	47	33	45	55	35	25	20	40	60	51	55	57	28	40	53	50	53	43	41	35	47	52	52	44	50	45	....	....	....	41.6
	Minimum	26	38	26	11	13	27	21	12	4	5	36	34	21	25	20	22	23	27	27	31	29	22	27	20	15	14	28	7	....	....	....	22.4
Farmington	Maximum	56	48	46	46	40	35	34	32	20	12	63	62	54	11	51	42	52	51	40	48	47	37	52	59	51	50	57	52	....	....	....	46.9
	Minimum	32	31	24	22	20	28	23	20	10	11	28	31	41	31	25	24	28	29	25	32	34	30	31	36	21	17	27	23	....	....	....	26.9
Gano	Maximum	63	58	58	50	41	48	43	29	24	39	60	57	56	25	29	42	53	51	53	41	42	34	51	58	51	4	51	48	....	....	....	46.5
	Minimum	31	38	33	18	15	20	25	18	[illegible]	3	28	41	34	27	21	21	21	25	26	30	30	28	25	36	28	11	27	12	....	....	....	21.2
Hollister	Maximum	55	54	52	38	41	42	30	35	38	36	40	58	51	28	36	24	31	38	40	38	40	42	46	44	42	44	40	52	....	....	....	42.4
	Minimum	25	30	37	32	28	16	14	15	6	2	25	12	16	14	22	24	28	29	58	26	28	30	52	30	28	26	24	28	....	....	....	24.1
Koshkonong	Maximum	65	52	62	41	45	[illegible]	33	37	31	29	60	62	[illegible]	37	33	48	60	60	55	55	53	43	55	60	51	46	51	49	....	....	....	50.1
	Minimum	35	41	40	24	22	27	33	[illegible]	8	11	25	40	30	22	24	24	29	37	30	25	36	31	30	35	29	17	28	20	....	....	....	25.8
Lebanon §§	Maximum	62	45	49	37	28	40	35	22	50	39	60	62	49	50	55	38	51	50	50	45	38	37	49	62	31	51	55	17	....	....	....	42.9
	Minimum	31	37	19	17	17	21	27	20	− 2	6	11	35	41	25	20	20	25	20	30	31	31	51	24	36	21	17	19	11	....	....	....	21.0
Mountain Grove §§	Maximum	61	54	51	44	13	47	31	21	27	29	[illegible]	63	41	30	23	41	50	57	57	47	47	41	50	61	32	48	54	21	....	....	....	41.1
	Minimum	31	36	28	20	25	21	25	[illegible]	7	7	17	35	[illegible]	20	17	20	27	31	32	31	32	22	23	28	22	15	19	16	....	....	....	25.1
Neosho	Maximum	63	61	58	38	51	40	48	51	32	45	[illegible]	61	[illegible]	31	30	45	56	61	58	54	[illegible]	40	55	65	60	51	60	57	....	....	....	51.1
	Minimum	31	43	32	2	29	20	17	21	10	7	29	42	32	20	23	18	28	28	31	32	32	31	25	39	23	19	28	6	....	....	....	25.5
Rolla	Maximum	63	58	55	40	45	52	49	55	35	45	60	64	58	30	32	42	54	55	[illegible]	51	41	37	50	59	56	49	56	54	....	....	....	49.4
	Minimum	30	30	38	13	18	27	27	19	3	3	30	40	51	29	22	22	29	28	28	33	32	20	23	26	21	16	29	13	....	....	....	25.8
Springfield	Maximum	63	54	47	36	43	47	38	28	24	37	55	58	50	25	26	50	52	56	54	48	38	56	49	63	35	49	56	50	....	....	....	41.5
	Minimum	42	43	21	19	25	30	26	14	5	13	30	45	53	23	20	21	32	56	34	32	31	30	30	35	20	22	31	7	....	....	....	26.8
Southwest Plain.																																	
Amoret	Maximum	60	55	58	35	47	40	37	28	28	40	55	60	51	39	36	41	57	58	58	47	36	38	45	55	46	48	56	46	....	....	....	46.5
	Minimum	32	22	23	16	21	25	23	18	4	11	28	33	37	25	20	17	21	32	34	30	29	28	24	31	15	20	31	3	....	....	....	24.7
Appleton City	Maximum	62	58	47	33	40	41	48	29	31	59	57	62	51	41	25	42	58	60	57	51	28	40	48	58	53	48	57	52	....	....	....	47.5
	Minimum	35	5	23	19	21	29	25	19	6	9	29	35	37	28	22	19	33	33	34	32	34	30	26	30	19	22	33	6	....	....	....	26.4
Clinton	Maximum	63	56	51	32	46	[illegible]	38	20	34	40	60	64	55	41	28	41	52	60	60	52	41	40	49	52	50	50	45	40	....	....	....	47.5
	Minimum	52	45	27	18	20	28	22	18	5	15	26	35	28	26	21	15	25	25	53	31	29	29	25	18	20	24	22	7	....	....	....	23.9
Harrisonville §§	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lamar §§	Maximum	65	60	59	38	45	38	32	27	31	52	61	68	47	47	25	42	55	62	52	48	36	40	51	46	33	50	59	24	....	....	....	46.4
	Minimum	35	37	34	20	22	27	23	20	3	11	30	34	43	27	21	19	29	31	36	31	29	29	25	37	21	19	33	8	....	....	....	26.8
Lamonte	Maximum	52	55	50	31	13	43	40	26	30	40	58	61	55	40	29	42	53	52	55	45	35	36	48	56	49	49	58	49	....	....	....	46.0
	Minimum	29	41	26	17	18	27	21	15	1	18	28	35	38	27	23	18	32	28	31	32	30	29	25	31	14	18	28	4	....	....	....	24.7
Marshall	Maximum	58	51	59	32	41	45	38	28	29	42	59	58	55	45	31	39	50	49	50	45	35	36	16	56	50	47	56	53	....	....	....	45.2
	Minimum	30	39	25	16	15	27	20	17	10	16	27	33	39	31	22	18	31	27	51	31	31	29	25	31	13	18	29	5	....	....	....	24.6
Warrensburg	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Warsaw	Maximum	63	55	52	35	43	45	43	32	[illegible]	40	61	63	61	42	31	44	55	63	58	54	45	40	48	62	56	51	60	56	....	....	....	49.7
	Minimum	25	41	36	18	17	24	21	15	− 5	8	27	34	37	30	22	20	30	27	32	32	32	30	22	36	18	16	28	8	....	....	....	24.3
Northwest Plateau.																																	
Chillicothe	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Grant City	Maximum	49	53	49	35	39	[illegible]	25	22	31	43	62	65	51	40	21	46	43	41	44	46	38	38	46	44	31	46	48	45	....	....	....	42.2
	Minimum	30	37	20	10	20	20	6	13	6	18	29	32	40	23	18	14	20	25	30	28	28	30	23	27	7	16	10	0	....	....	....	21.1
Kansas City	Maximum	51	52	49	35	42	59	29	28	31	41	61	57	53	33	26	43	52	50	54	41	24	38	48	51	35	47	56	26	....	....	....	42.9
	Minimum	34	45	23	16	23	26	19	16	12	20	35	28	30	23	20	20	54	32	35	22	30	29	33	26	13	22	26	3	....	....	....	25.7
Kidder §§	Maximum	58	68	62	34	43	41	27	57	31	47	65	65	62	41	26	42	51	47	42	35	37	42	52	55	29	50	60	15	....	....	....	46.1
	Minimum	30	41	33	14	21	28	15	17	9	15	31	35	43	32	36	16	20	27	32	30	30	29	27	35	21	21	25	2	....	....	....	25.5
Lexington §§	Maximum	53	57	38	31	43	41	25	27	30	42	61	60	50	31	25	40	53	50	54	35	35	37	44	54	27	47	55	18	....	....	....	41.9
	Minimum	30	41	37	16	20	30	19	17	10	15	32	34	45	32	21	25	32	20	22	32	30	30	27	34	14	20	26	7	....	....	....	26.4
Maryville §§	Maximum	48	51	35	32	59	20	18	24	32	12	62	54	48	32	24	35	43	42	51	35	36	36	47	41	28	45	48	8	....	....	....	38.4
	Minimum	24	30	28	9	8	21	7	7	4	4	8	27	32	27	15	10	10	25	25	25	27	27	21	24	5	5	10	− 1	....	....	....	16.9
Oregon	Maximum	48	53	49	30	46	36	27	26	28	29	58	55	50	34	26	40	41	44	51	45	38	37	46	41	25	47	50	47	....	....	....	41.3
	Minimum	31	39	19	10	20	21	9	14	7	18	27	34	30	30	10	12	27	26	36	27	22	27	24	20	5	17	18	− 2	....	....	....	20.1
St Joseph	Maximum	51	53	48	33	41	37	29	27	30	41	61	57	51	33	25	43	50	47	53	32	36	37	48	46	27	48	53	15	....	....	....	41.5
	Minimum	33	43	20	15	23	23	17	16	11	22	31	27	33	22	13	18	31	30	23	29	30	30	29	22	9	20	14	2	....	....	....	23.7
Trenton	Maximum	45	52	47	28	37	35	27	27	28	42	58	58	72	45	28	50	41	42	49	41	39	38	42	57	31	34	49	45	....	....	....	40.6
	Minimum	29	38	25	13	20	26	12	15	7	17	28	33	45	28	21	15	30	28	28	30	28	30	27	34	5	17	16	3	....	....	....	23.2

a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.



Based on 680 records.

.05
MS

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

JUN 20 1919

CLIMATOLOGICAL DATA

MISSOURI SECTION

IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

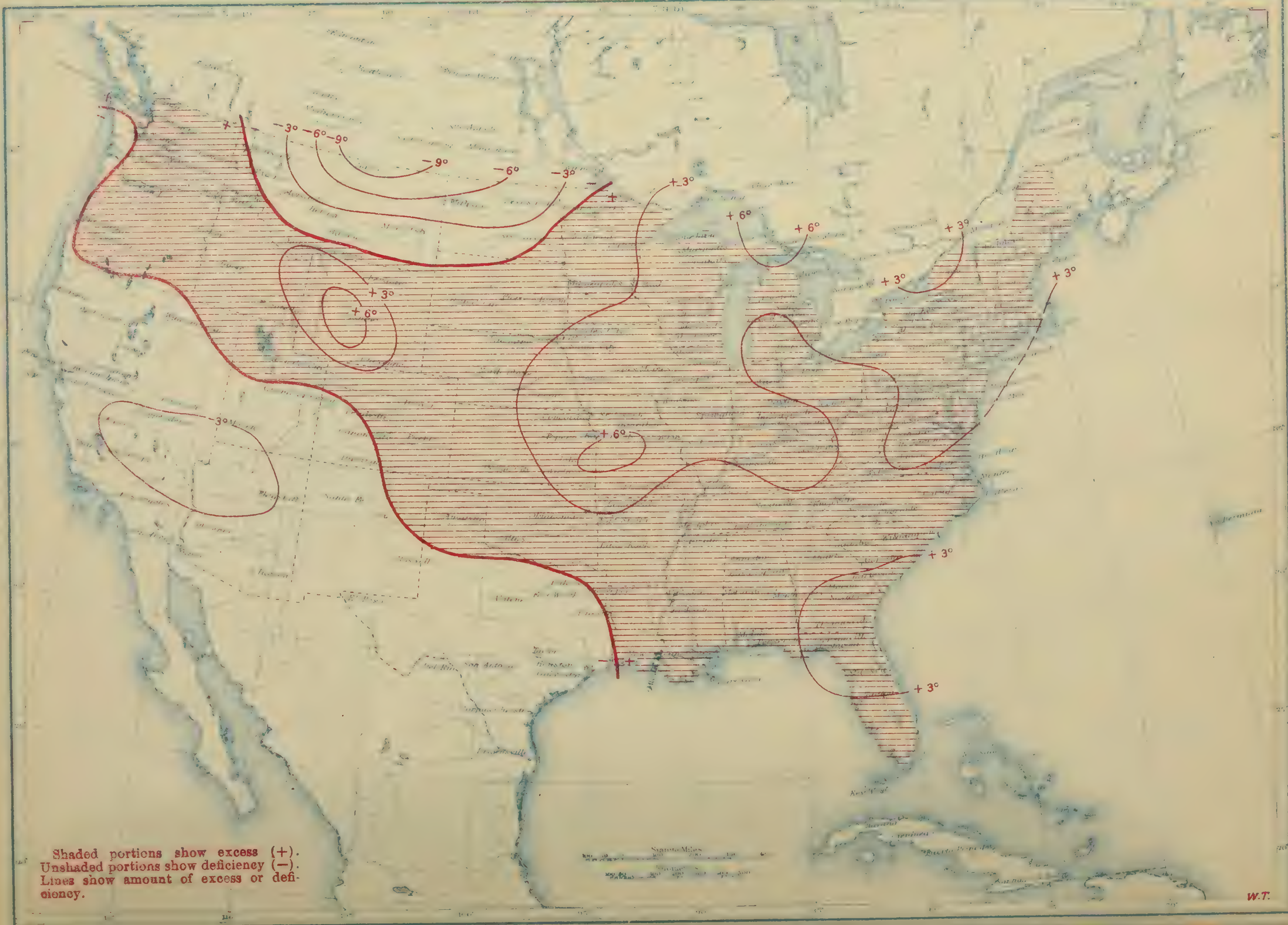
MARCH, 1919

BY

GEORGE REEDER
METEOROLOGIST

COLUMBIA, MO.,
WEATHER BUREAU OFFICE
APRIL 25, 1919.

Departure of the Mean Temperature from the Normal, March, 1919.



Shaded portions show excess (+).
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXIII. Columbia, Mo., March, 1919. No. 3

GENERAL SUMMARY.

March, 1919, in Missouri, was, as a rule, mild in all sections, and generally favorable for outdoor pursuits. The month was unusually free from that blustry weather commonly associated with March, though there were a few local storms. There was some local flood damage in the lowlands of the Grand, Platte, and Nodaway rivers, caused principally by waters coming from the upper watersheds.

At the close of the month the wheat crop was in excellent condition. Oats were nearly all seeded: and pastures and meadows had started growth. The fruit prospect was fair to good.

TEMPERATURE.

The monthly mean temperature, based upon reports of 66 stations, was 46.3. The mean departure from normal for 64 stations having 10 or more years' record was plus 2.9°. Except two or three days during the first decade and three in the last decade the daily mean was above the normal. The 1st was the coldest day, with two stations reporting —2° as a minimum temperature. The warmest period was from about the 10th to the 20th, when the daily temperature excess ranged from 1° to 27°. The day temperatures reached 70° or higher on the 15th, 19th, 20th, and 29th. The average number of days with temperature 32° or lower was 14.

PRECIPITATION.

The average precipitation, 82 stations reporting, was 2.40 inches. The departure from the normal for 74 stations having 10 or more years' record was minus 0.69 inch. The monthly precipitation was in the form of light to moderate showers. On the 5th, 6th, and 8th to 10th they were rather local; from the 14th to the 17th they were moderate to heavy and general; and again on the 25th, and 26th. Geographically the total monthly amounts varied quite markedly. Twelve stations, all in the northwestern plateau and southeastern lowlands, received amounts in excess of the normal, while 54 stations got less than normal. The moisture was sufficient for present needs, probably a little too much locally in the two named sections. The greatest local monthly amount, 8.67 inches, fell at Caruthersville, and the least, 0.37 inch, at Amoret. The greatest amount in any 24 consecutive hours was 5.37 inches, at St. Joseph on the 15-16th.

A moderate snowstorm prevailed on the 7th, and 8th. The total fall was of little consequence, save in the Ozarks where amounts ranged between 3 and 11 inches; it soon melted, however.

EVAPORATION.

The weather did not permit of evaporation observations until about the 7th. The total evaporation for 25 days, at Columbia, Mo., was 2.187 inches; the total rainfall, 1.12 inches; the total wind movement over the surface of the pan, 1,316 miles, and the mean temperature, 49.2. During the same month in 1918 (full month), these data were in order named: 3.693 inches; 0.64 inch; 1,728 miles, and 50.9°. See page 24 for daily data.

WIND.

The prevailing winds were from the south. The average wind movement, 8 stations equipped with anemometers reporting, was 7,790 miles, or about 4 per below normal. Brisk to strong winds obtained on the 8th, 15th, and 16th. For more detailed report see page 24.

SUNSHINE AND CLOUDINESS.

There were 15 clear, 8 partly cloudy, and 8 cloudy days. The average number of hours of sunshine, six well selected stations reporting, was 236, 64 per cent of the possible, and 9 per cent above normal.

MISCELLANEOUS PHENOMENA.

Fog—9th, 17th, 22d, and 26th. Hail—15th. Lunar halos—9th, and 12th. Solar—1st, 2d, 6th, 8th, 12th, 13th, 23d, 24th, 28th, and 29th. Sleet—4th, and 8th. Thunderstorms—14th, 15th, 16th, 25th, and 30th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
								Max. velocity.		
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Miles per hour.	Direction.	Date.
Columbia	30.16	77	......	213	57	6,201	8.3	29	w.	17
Hannibal	30.16	78	......	......	......	7,159	9.6	50	sw.	16
Kansas City	30.13	74	63	233	63	9,178	12.3	40	nw.	15
St. Joseph	30.13	77	60	216	58	6,832	9.2	37	nw	15
St. Louis	30.15	76	58	249	67	10,341	13.9	50	ne.	8
Springfield	30.13	76	57	268	72	8,505	11.4	38	se.	15
Cairo, Ill	30.16	76	58	......	......	7,912	10 6	46	ne.	8
Keokuk, Iowa	30.18	79	64	238	67	6,194	8.3	39	sw.	16

COMPARATIVE DATA FOR MARCH.

Year.	Temperature.				Precipitation.				Number of Days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	38.5	−4.8	90	1	4.02	+1.11	......	.....	10	....	....	.....
1889	41.3	+1.0	84	13	1.98	−0.93	......	.....	5	....	....	....
1890	37 3	−6.0	76	−11	2.61	−0.30	......	5.7	8	....	....	....
1891	36.6	−6.7	75	−11	3.01	+0.10	......	7.1	10	....	....	....
1892	38.9	−4.4	87	5	3.11	+0.20	......	.....	8	8	10	13
1893	40.5	−2.8	86	1	2.86	−0.05	2.15	3.2	7	11	10	10
1894	47.7	+4 4	89	2	2.93	+0.02	3.20	0.2	6	15	9	7
1895	42.4	−0.9	98	0	2.14	−0.77	3.00	4.4	9	14	7	10
1896	39.2	−3.9	82	2	2.05	−0.86	4.47	5.2	8	11	9	11
1897	44.2	+0.9	93	− 5	6 07	+3.16	4.10	1.0	12	9	9	13
1898	44.7	+1.4	83	9	7.09	+4.18	3 87	0.6	11	11	7	13
1899	37.4	−4.1	78	− 8	2.93	+0.02	4.30	8.9	6	9	11	11
1900	40.4	−1.9	88	− 4	1.18	−1.43	3.41	0.2	6	15	9	7
1901	42.7	−0.6	85	− 1	3.74	+0.83	3.21	1.8	8	11	8	12
1902	45.3	+2.0	85	1	3.49	+0.58	5.60	0.8	9	10	10	11
1903	46.8	+3.5	81	9	3.35	+0.44	6.19	1.1	8	13	7	11
1904	44.8	+1.5	87	8	4.14	+1.23	7.50	1.2	9	11	9	11
1905	50 3	+7.0	88	10	2.99	+0.08	2.67	T.	8	11	8	12
1906	34.6	−8.7	75	− 5	3.93	+1.02	3.00	8.6	11	6	7	18
1907	53 9	+10.6	95	16	2.82	−0.09	3.08	1.0	7	14	7	10
1908	50 1	+6.8	89	14	2.58	−0.33	2.55	1.0	7	14	7	10
1909	44.5	+1.2	81	9	3.07	+0.16	3.30	0.6	6	13	9	9
1910	55.8	+12.5	96	15	0.66	−2.25	2.25	0.1	2	20	7	4
1911	46.8	+3.5	91	5	1.85	−1.06	2.00	1.4	6	16	8	7
1912	35 2	−8.1	89	− 4	4.62	+1.71	2.85	16.5	11	12	6	13
1913	40.6	−3.7	84	−12	4.36	+1.31	7.97	5.0	9	12	8	11
1914	43.2	−1.3	87	− 2	2.75	−0.41	3.01	4.7	8	13	7	11
1915	36.4	−8.1	70	6	1.50	−1.74	1.85	7.9	6	7	8	16
1916	47.0	+1.3	95	− 2	2.53	−0.65	4.25	3.1	7	14	8	9
1917	45.2	+1.7	86	− 7	2.91	− 0.42	4.08	1.5	7	15	7	9
1918	50.9	+7.8	95	8	0.94	−2.05	2.25	0.1	4	18	6	7
1919	46.3	+2.9	90	− 2	2.40	−0.69	5.37	0.7	6	15	8	8

SUPPLEMENTAL TABLE OF DATA.

Stations.	Length of record, years.	Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
		Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Arlington	15	1.27	−1.67	0 82	0	3	19	0	12	......	Wm. R. Bennett.
Boonville	41	1.62	−1.38	0.60	T.	8	18	0	13	s.	C. Randecker.
C. Girardeau	11	5.60	+2.31	2.03	T.	9	16	1	14	e.	D. L. Albert.
Glencoe	1	2.42	....	0.63	0	6	20	1	10	......	L. M. Beard.
Hermann	44	2.28	−0.72	1.10	T.	9	19	2	10	e.	W. E. Crawford.
New Madrid	21	8.43	+3.09	3.60	0	10	18	3	10	ne.	Miss Josie Smith.
Osceola	18	0.55	−2.44	0.29	0	4	13[b]	5[b]	11[b]	....	Wm. E. Mathews.
Pacific	1	2.78	....	0.78	T.	10	17	3	11	e.	Mark Waters.
Steelville	16	1.59	−0.40	0.45	2.0	5	19	0	12	s.	A. Kreamelmeyer.
Tuscumbia	1	1.74	....	0.82	0	8	13	4	14	s.	C. B. Wright.
Union	1	3.11	....	0.98	1.5	10	14	3	14	se.	J. Wm. Keller.
Valley Park	1	3.95	....	1.30	0	6	13	10	8	s.	T. W. McNeese.
Waverly	3	1.29	....	0.88	0	9	20	1	10	nw.	J. W. Cauthorn.

Climatological data for March, 1919.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	37	45.3	+4.2	74	15†	6	1	38	1.21	−1.27	0.97	0	5	15	0	16	n.	Louis Benecke.
Clifton Hill	Randolph	751	26	46.3	+5.7	75	20	9	1	33	2.11	−0.51	1.25	0	6	19	6	6	.....	L. S. Harlan.
Columbia	Boone	784	31	45.6	+5.2	73	20	12	1	35	1.30	−1.73	0.58	T.	8	11	9	11	se.	U. S. Weather Bureau.
Fayette	Howard	725	32	42.4	+0.7	74	15†	8	1	35	1.57	−1.08	0.60	0	7	.....	.....	.....	.....	Prof. L. J. Abernathy
Fulton	Callaway	818	13	46.7	+2.9	75	20	12	1	30	0.85	−2.66	0.25	T.	10	11	9	8	se.	Dr. C. J. Elmore.
Gorin	Scotland	700	28	.....	.....	.....	.....	.....	.....	.....	0.85	−1.62	0.46	0	7	5	14	12	se.	J. W. Pulliam.
Hannibal	Marion	531	24	44.4	+2.8	73	20	10	1	33	2.58	−0.18	1.63	1.3	8	12	6	13	nw.	U. S. Weather Bureau.
Jefferson City	Cole	537	31	45.8	+2.7	74	20†	11	1	36	1.11	−1.76	0.35	T.	7	15	7	9	n.	Miss Emma Swift.
Keytesville	Chariton	663	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. T. Dewey, M. D.
Kirksville	Adair	969	25	43.2	+1.6	69	15†	4	1	36	1.65	−1.66	0.41	0	5	15	9	7	n.	Prof. Mark Burrows.
Louisiana	Pike	469	39	44.0	+1.7	74	20	10	1	36	1.95	−0.72	0.58	3.0	11	18	3	10	s.	J. T. Farrell.
Macon	Macon	875	19	42.6	+0.4	75	20	5	1	40	2.66	−0.46	1.64	T.	6	20	0	11	ne.	Minnie N. Tolman
Mexico	Audrain	797	39	45.8	+2.5	76	20	8	1	43	1.15	−1.52	0.65	0	3	15	0	16	e.	R. M. Llewellyn.
Oakfield ‡‡	Franklin	793	36	47.1	+2.6	74	20	11	1	36	2.29	−1.61	0.93	4.0	8	8	16	7	s.	E. E. Steines.
Palmyra	Marion	652	17	44.4c	+5.0	71	20c	9	1	42	2.20	−0.71	1.45	T.	7	9c	5c	14c	ne.	W. B. Markell.
St. Catherine	Linn	859	8	43.2	.....	70	29	8	1	38	1.08	.....	0.51	0	7	10	14	7	se.	L. D. Baker.
St. Charles	St. Charles	456	38	47.2	+3.7	76	20	13	1	35	1.89	−1.25	1.09	2.0	4	11	7	13	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	46	47.1	+3.6	73	29	16	1	43	1.72	−1.71	0.51	1.2	9	14	10	7	s.	U. S. Weather Bureau.
St. Louis (2)	do.	568	7	46.4	.....	72	29	15	1	42	1.30	.....	0.33	0.3	8	12	11	8	se.	St. Louis University.
Shelbina	Shelby	779	25	.....	.....	.....	.....	.....	.....	.....	1.90	−0.72	1.90	0	1	.....	.....	.....	.....	S. G. Parsons.
Steffenville	Lewis	690	21	44.6	+3.2	73	29	7	1	41	1.57	−1.25	0.80	T.	4	10	14	7	e.	Frank Hall.
Unionville	Putnam	1,072	24	42.3	+3.9	68	29	−2	1	36	3.10	−0.79	1.45	T.	6	18	7	6	n.	Geo. W. Davis.
Warrenton	Warren	865	26	44.8	+3.3	76	20	10	1	38	2.84	−0.45	0.88	2.0	8	9	9	13	s.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	571	46	43.0	+5.1	71	29	8	1	29	1.49	−0.88	1.21	0.2	6	14	10	7	nw.	U. S. Weather Bureau.
Section means and	extremes	.....	.....	44.8	+3.1	76	20	−2	1	43	1.70	−1.14	1.90	0.6	7	13	8	10	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	26	51.0	+3.3	80	20	21	1	40	8.67	+4.75	2.95	T.	7	21	2	8	e.	H. E. Averill.
Doniphan	Ripley	344	12	45.8	−0.4	75	30	16	1	37	4.21	+0.65	[illegible]	0.0	5	17	6	8	nw.	W. W. Martin.
Jackson	Cape Girardeau	455	26	48.4	+1.6	77	20	16	1	41	4.67	+0.30	[illegible]	T.	4	14	7	10	s.	L. M. Bean.
Marble Hill	Bollinger	420	25	49.3	+2.5	79	30	15	1	45	3.55	−0.96	1.50	0.0	6	17	7	7	s.	W. A. Kinder.
Patton (near)	Bollinger	500	3	.....	.....	.....	.....	.....	.....	.....	4.87	.....	1.55	2.0	6	.....	.....	.....	.....	George F. Ellis.
Poplar Bluff	Butler	339	13	50.4	+2.0	90	21	16	1	45	4.74	−0.11	2.67	T.	7	16	4	11	.....	Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill	359	41	49.2	+2.2	77	4	20	1	36	6.61	+2.59	3.97	0.0	9	10	8	13	ne.	U. S. Weather Bureau.
Section means and	extremes	.....	.....	50.0	+1.9	90	21	15	1	48	5.33	+1.21	3.97	0.3	6	16	6	9	s.	
Ozark Plateau.																				
Arcadia	Iron	925	33	45.6	+1.0	78	20	13	1	45	2.39	−1.68	1.11	3.1	9	16	6	9	w.	Arcadia College.
Birchtree	Shannon	1,078	23	48.6	+1.4	76	20	11	1	37	2.31	[illegible]	0.85	8.0	6	22	3	6	s.	V. H. Kirkendall.
Bolivar	Polk	1,071	29	49.0	+3.0	75	20†	12	1	40	1.56	−1.50	0.55	0	7	14	11	6	se.	K. H. Brown.
Cassville	Barry	1,475	28	47.7	+4.1	75	20	14	1	47	0.85	−3.09	0.35	0	1	19	6	6	ne.	William Talbert.
Dean ‡‡	McDonald	1,069	20	50.1	+1.4	77	20	13	1	41	1.39	−2.02	0.85	0	6	13b	4	6c	e.	H. E. Dean.
Eldon	Miller	944	20	46.0	−2.6	75	19†	9	1	40	1.37	−1.74	0.35	T.	9	9	16	6	s.	F. H. Shepherd.
Farmington	St. Francois	918	8	49.2	+2.3	77	20	13	1	40	2.12	−1.12	0.65	3.0	10	12	11	7	sw.	Robert Forsyth.
Gano ‡‡	Dent	1,250	13	47.2	+0.5	78	20	8	1	39	1.95	−1.48	0.54	3.1	7	17	7	7	s.	A. C. Leach.
Goodland	Iron	1,090	12	46.0	+1.4	77	20	10	1	46	2.32	−2.07	1.87	0	3	19	5	7	s.	F. M. Adams.
Hollister	Taney	735	33	50.4	+1.8	82	23	20	1	36	2.42	−0.67	1.35	0	4	20	6	11	sw.	W. P. Chapmann.
Houston	Texas	1,280	24	49.4	+3.5	77	20	11	1	39	1.59	−2.74	0.52	2.6	1	8	11	9	se.	R. F. Harmon.
Koshkonong	Oregon	958	18	50.2	+0.8	76	20	14	1	37	3.53	−0.37	1.14	1.5	5	18	7	6	se.	R. M. Hitt.
Lebanon	Laclede	1,265	28	45.6	+0.1	78	20	9	1	41	2.01	−1.46	0.76	0	6	13	7	6	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	22	49.7	+1.9	75	20	13	1	38	0.95	−1.41	0.51	T.	3	21	6	4	se.	C. S. Crow.
Mountain Grove††	Wright	1,490	20	46.2	0.0	75	20	10	1	39	2.37	−1.95	1.11	2.0	7	11	8	12	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	34	49.9	+1.8	74	20	15	1	44	1.92	−1.54	1.09	T.	8	23	1	7	ne.	W. O. Buck.
Rolla	Phelps	1,139	35	48.8	+4.5	77	20	11	1	34	2.85	−0.60	0.83	6.0	8	16	11	4	s.	Prof. Elmo G. Harris.
Springfield	Greene	1,350	30	48.1	+4.9	73	20	14	1	41	2.23	−1.81	1.18	11.6	7	17	10	4	se.	U. S. Weather Bureau.
Section means and	extremes	.....	.....	48.5	+2.2	82	23	8	1	46	1.99	−1.61	1.87	2.3	6	17	7	7	s.	
Southwest Plain.																				
Amoret	Bates	831	12	46.8	+3.4	75	20†	7	1	42	0.37	−2.12	0.23	0	5	19	7	5	s.	Darby Fruit Farm.
Appleton City	St. Clair	853	26	48.2	+3.8	76	20†	12	1	38	1.47	−1.54	1.03	T.	5	14	11	6	sw.	W. G. Bigelow.
Clinton	Henry	765	30	48.1	+4.1	77	20†	13	1	39	1.12	−1.69	0.45	0	3	15	5	11	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	912	44	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. J. Sharp.
Lamar	Barton	980	36	48.6	+2.5	77	20	6	1	38	1.68	−1.20	0.92	0	5	13	10	8	s.	Joe W. Springer.
Lamonte	Pettis	863	30	45.3	+1.7	76	20	8	1	41	2.40	−0.08	1.00	0	4	11	16	4	s.	J. Ed. Hall.
Marshall	Saline	779	29	46.8a	+4.6	74	15	8	1	38	1.65	−1.31	1.15	T.	4	16a	7a	7a	sw.	Dr. W. H. Black.
Nevada	Vernon	860	25	49.8a	+5.8	75	15†	14	1	38	1.10	−1.86	0.47	0	7	13a	9a	8a	s	George A. Kaupp.
Warrensburg	Johnson	883	38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Geo. H. Collins.
Warsaw	Benton	715	20	47.8	+0.9	78	20	10	1	45	1.35	−1.79	0.35	0	8	9	19	3	s.	J. R. Smith, M. D.
Section means and	extremes	.....	.....	47.7	+3.4	78	20	6	1	48	1.39	−1.41	1.15	T.	5	14	10	7	s.	
Northwest Plateau.																				
Avalon	Livingston	739	31	44.4	+3.1	71	29	8	1	33	1.10	−1.78	1.10	0	2	12	14	5	se.	F. G. Ashbaugh.
Bethany	Harrison	916	27	42.0	+3.1	67	19	1	1	39	5.45	+3.26	2.60	T.	5	11	10	10	se.	M. H. Moulton.
Chillicothe	Livingston	768	10	45.4	+5.0	74	29	3	1	40	0.81	−1.66	0.81	T.	1	19	8	4	sw.	R. L. Isherwood.
Conception	Nodaway	982	32	42.2	+3.8	69	29	3	1	37	3.84	+2.14	1.50	0.2	6	8	15	8	ne.	Fr. Adelhelm Hess.
Gallatin	Daviess	893	17	.....	.....	.....	.....	.....	.....	.....	3.02	+0.39	1.48	T.	7	15	10	6	s.	Robert R. Wynne, Jr.
Grant City	Worth	1,134	24	42.0	+2.1	69	29	3	1	40	3.74	−1.79	2.00	T.	5	19	5	7	s.	W. H. Campbell.
Kansas City	Jackson	963	28	45.3	+4.5	70	15	9	1	26	1.54	−1.28	0.82	T.	6	11	14	6	n.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	26	44.8	+4.4	74	11	6	1	35	2.15	−0.08	1.85	T.	5	13	12	6	ne.	J. F. Sharp.
Lexington	Lafayette	688	35	45.8	+3.0	73	20†	4	1	36	1.34	−0.93	0.87	0	4	14a	0a	16a	s.	J. W. Keithley.
Liberty	Clay	864	28	46.0	+3.9	72	28†	2	1	43	1.92	−0.63	1.00	T.	5	15	7	9	s.	W. C. Wilmott.
Maryville	Nodaway	1,036	26	38.8	+2.5	69	29	−2	1	46	2.57	+0.68	1.95	3.0	6	16	3	12	s.	J. R. Brink.
Oregon	Holt	1,048	61	41.6	+2.7	68	29	2	1	34	2.29	+0.26	2.09	T.	4	15	7	9	s.	Tom Curry.
St. Joseph	Buchanan	967	45	43.4	+1.1	70	29	8	1	32	6.00	+3.99	5.37	0.3	9	11	14	6	se.	U. S. Weather Bureau.
Tarkio	Atchison	976	17	42.8	+4.0	72	29	5	1	35	3.53	+1.31	2.10	T.	3	21	2	8	sw.	John F. Frazier.
Trenton	Grundy	822	22	42.5	+2.3	69	29	2	1	33	3.26	+1.02	2.84	0.4	4	16	8	7	s.	W. H. Estes.
Section means and	extremes	.....	.....	43.4	+3.2	74	11†	−2	1	46	2.80	+0.36	5.37	0.3	5	14	9	8	s.	
State means and	extremes	.....	.....	46.3	+2.9	90	21	−2	1	48	2.40	−0.69	5.37	0.7	6	15	8	8	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.

† Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Oakfield, Pacific, R. F. D. No. 1; of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily precipitation for March, 1919.

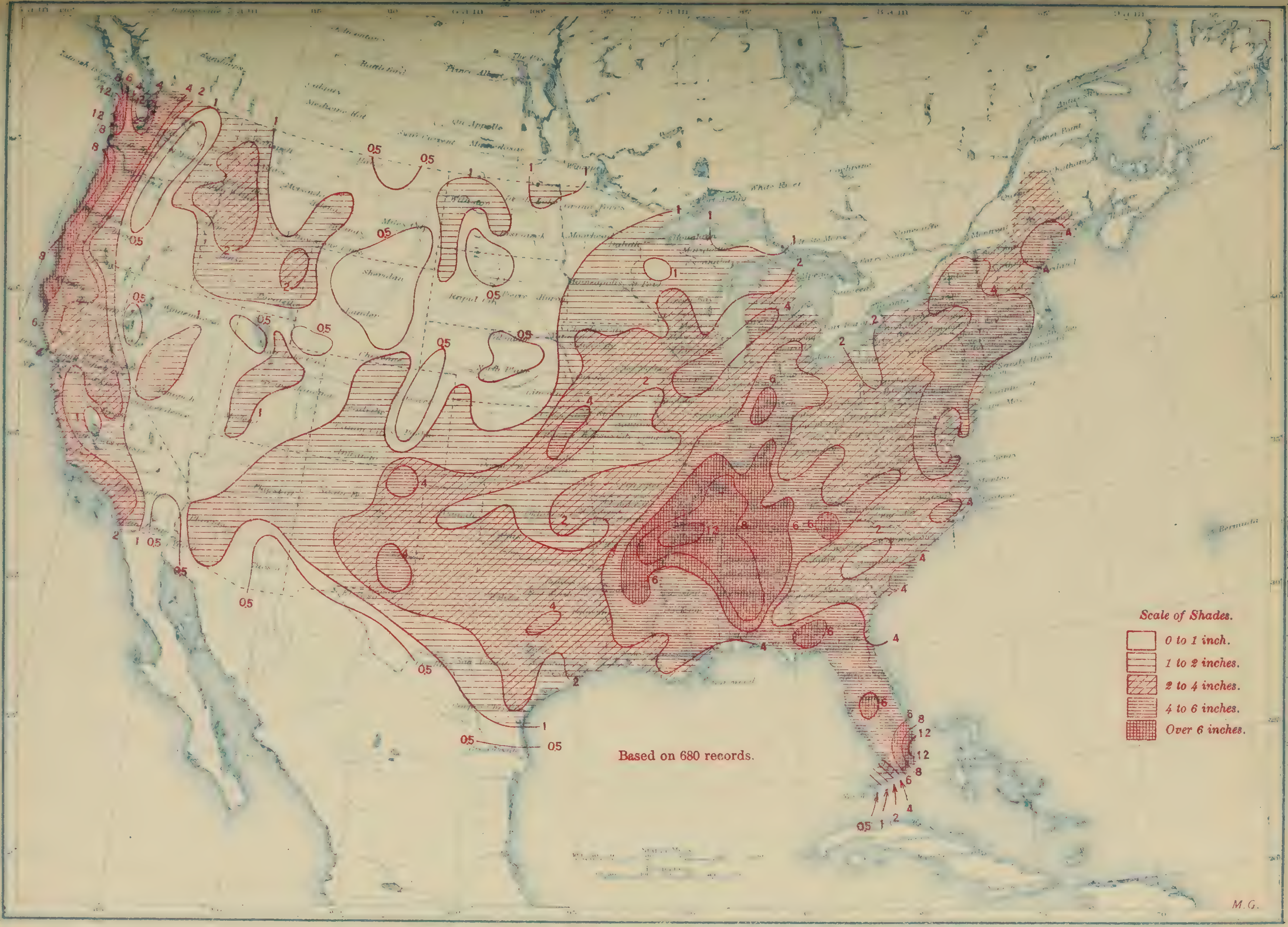
Stations.	Watersheds.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville	Missouri	T.				.23				.12		.10				.08	.60	.20								T.	.22				.07		1.62
Brunswick	Grand										.02				.04	.11	.97										.07						1.21
Clifton Hill	Chariton				T.				T.		.02			T.	.20	.23	1.35									.25	.06						2.11
Columbia***	Missouri				.18			T.	.09		.04			.01	T.	.32	.26	T.								.19	T.				.21		1.30
Fayette	do				.02		.18								.12	.60	.28									.25					.12		1.57
Fulton	do				.12	.05			.13	.03	T.			.01	T.	.13	.25	.09	T.							.01	T.				.03		0.85
Glencoe	Meramec					.20				.63							.58	.42	.44							.15							2.42
Gorin	Mississippi				.01						.07			.01	.10		.46	.02								.18							0.85
Hannibal***	do				.28	T.			.11	T.	.01			.01	.53	.99	.64	T.								T.	T.			.01			2.58
Hermann	Missouri	.10				.17			T.	.20		T.			T.		1.10	.10	.35								.21				.02	.03	2.28
Jefferson City	do	T.				.06				.30						.02	.35	.15									.03					.20	1.11
Keytesville	Chariton																																....
Kirksville	Mississippi												.10		.10	.24	.51									.10				T.			1.05
Louisiana	do				.10	.22			.02	.28	.02			.08		.28	.26	.12									.55				.02		1.95
Macon	Chariton				.04			T.	T.		.01			.01		1.64										.28				.08			2.06
Mexico	Mississippi															.35				.65							.15						1.15
Oakfield	Meramec				T.	.09			.41		T.			T.		.26	.39	.93								.08	.10				.03		2.29
Pacific	do	.13				.20				.50						.02	.46	.33	.78								.17	.16			.03		2.78
Palmyra	Mississippi					T.			T.	T.		.03			.05	.56	1.45	.06	.02								T.				.03		2.20
St. Catherine	Grand				.01										.05	.25	.51	T.								.05	.01			T	.20		1.08
St. Charles	Missouri								.20							.52	T.	1.09									.08						1.89
St. Louis (1)***	Mississippi				.10				.17	.01	T.			T.	.03	.16	.59	.51								T.	.14				.01		1.72
St. Louis (2)	do				.12				.31		T.			T.	.02	.05	.30	.36								T.	.13				.01		1.30
Shelbina	do															1.90																	1.90
Steffenville	do				T.	T.			T.					T.	T.	.50	.80	.05													.22		1.57
Union	Meramec	.12				.16				.40		.02				.01	.35	.98	.77								.15					.15	3.11
Unionville	Grand				.15										.10	1.45	1.10									.16	.14						3.10
Valley Park ‡	Meramec									1.21		.05					1.09	.45	1.00								.15						3.95
Warrenton	Mississippi					.19				.44					T	.05	.81	.88	.14								.30				.03		2.84
Keokuk, Iowa***	do				.08				T.		.01			T.	.08	.46	.75									.11							1.49
Southeast Lowlands.																																	
Cape Girardeau	Mississippi	.15				.05				.90						.15	1.60	2.03									.60	.10				.02	5.60
Caruthersville	do				T.	1.57			.77	T.					.03	.25	2.95	1.45									1.65				T.		8.67
Doniphan	Black									1.00	T.			T.	.02	.55	2.04									T.	.60				T.		4.21
Jackson	Mississippi							1.06									2.90										.63				.08		4.67
Marble Hill	do					.20			.85							.65	1.50	.20													.15		3.55
New Madrid ‡	do	.11				1.00				.90					.05	.16	1.00	3.60									.90	.45				.26	8.43
Patton (near)	do								.59						1.55	1.07	.13										.69				.03		4.87
Poplar Bluff	Black					.29			.60							.50	2.07	.53									.70					.02	4.71
Cairo, Ill.***	Mississippi				.54	.21			.66		T.			T.	.05	.18	3.97	.03									.91				.06		6.61
Ozark Plateau.																																	
Arcadia	Gasconade	.05								.72		T.			T.	.06	1.11	.11	.01								.26	.01				.06	2.39
Arlington	Black					T.			.25								.82	.20															1.27
Birch Tree	Osage								.75							.55	.62	.05								.13	.11						2.21
Bolivar	White								.55		.15	.11					.20	.30								.05					.20		1.56
Cassville	Gasconade				T.				.85		T.				T.	T.	T.	T.								T.	T.						0.85
Dean	Osage				T				.85		.10				T.	.05	.20	.15								T.	.04					T.	1.39
Eldon	Black				.32				.36	.02	.05				.03	.17	.26	.09								.07							1.37
Farmington	Meramec								.35	.21	.05				.08	.25	.65	.10	.09								.28				.06		2.12
Gano	Black					.25			.30	.24						.09	.41	.30								T.	.36						1.95
Goodland	White																1.87									.05					.40		2.32
Hollister	Gasconade								1.35	.15						.41	.48									T.	T.						2.42
Houston	Mississippi				T.				.32	.52	T.				T.	T.	.13	.62									T.				T.		1.59
Koshkonong	Black								.68	.17						.97	1.14	.07							.13	.15	.09					.13	3.53
Lebanon	Osage					T.					.76	T.					.37	.28	.02							.02						.56	2.01
Lockwood	do								.51		T.						.30	.14															0.95
Mountain Grove ‡	White	T.				T.				.47		.15				.06	1.11	.16								T.	.20	T.				.22	2.37
Neosho	Neosho				.03				1.00		.05				T.	.03	.57	.19									.03				.02		1.92
Rolla	Meramec				T.	.15			.82		.04					.14	.83	.29	T.							.18					.10		2.85
Springfield***	White				.34				1.18		.07				T.	.03	.32	.23								T.	T.				.06		2.23
Steelville	Meramec					.15				.45							.45	.32									.22						1.59
Tuscumbia	Osage	T.		T.		.05			T.	.42		.03			T.	.13	.82	.23	.04							T.	T.	T.				.02	1.74
Southwest Plain.																																	
Amoret	Osage				.02				T.		.05				T.	.23	.03									.04							0.37
Appleton City	do				T.			T.	.15		.03				T.	1.03										.03	.23						1.47
Clinton	do		.42													.45											.25						1.12
Harrisonville	do																																....
Lamar	Neosho								.11	.20		.10					.92															.35	1.68
Lamonte	Missouri				.20				T.						T.	1.00	.40									T.	.80						2.40
Marshall	do				.10			T.			.10	T.			T.	T.	1.15									T.	.30			T.	T.		1.65
Nevada	Osage				.25				.16		.04					.47	.02									.02	.14						1.10
Osceola	do								.06	.17		.03					.29																0.55
Warrensburg	Missouri																																....
Warsaw	Osage				.15	.20			.25		.05				.05	.15	T	.35								.15							1.35
Waverly	Missouri	.10				.05		T.			.03	.02		T.		.12	.79									.02	.05				.02		1.20
Northwest Plateau.																																	
Avalon	Grand															.55	.55																1.10
Bethany	do							T.							.45	2.60	1.90									.15	.35				T.		5.45
Chillicothe	do				T.												.81																0.81
Conception	Missouri				T		.02	T.							.19	1.50	1.42									.67	.01			T.			3.81
Gallatin	Grand				.08	T.		.03							.12	1.41	1.00									.16	.15						3.02
Grant City	do						T.	.10			T.				.60	.88	2.00									.16							3.74
Kansas City***	Missouri				.04		T.				.12			T.	.03	.65	.17									.53				T.			1.54
Kidder	Grand							T.			.01					.07	1.85									.02	.20						2.15
Lexington	Missouri					.05					T.	.13					.87									T.	.29						1.34
Liberty	do				T.						.30			T.	T.	.15	.85								.07	.55							1.92
Maryville	do	.20			T.			.10	T.							.24	1.95									.03	.05						2.57
Oregon	do				T.		.02				T.				.03		2.09									.15							2.29
St. Joseph***	do				.01		.02	.01	T.	.03	.01				.33	5.09	.28								T.	.22				T.			6.00
Tarkio	do					T.		T.		T.						2.10	1.25									.18							3.53
Trenton	Grand				.03		T.				.04				.14	2.84	T.									.21							3.26

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded

Daily temperatures for March, 1919.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	42	50	68	30	35	40	50	47	51	54	58	62	68	69	74	55	59	65	69	72	56	58	61	65	56	53	53	63	74	72	53	57.6
	Minimum	6	12	33	29	14	12	25	37	23	37	25	33	42	43	46	50	42	32	39	42	34	32	33	40	43	40	28	33	38	48	31	33.0
Columbia	Maximum	45	50	67	56	31	36	49	42	51	48	55	62	70	60	73	68	59	61	70	73	51	55	58	66	63	54	50	62	73	69	47	57.5
	Minimum	12	33	36	21	15	23	32	31	28	32	25	35	47	49	62	49	40	31	42	43	38	32	35	39	49	36	30	34	47	42	33	35.7
Fayette	Maximum	35	48	63	50	27	32	45	55	58	45	52	60	64	63	70	50	58	60	67	70	47	52	50	62	56	48	45	60	69	64	43	52.5
	Minimum	8	23	28	18	12	20	26	32	42	27	25	30	41	45	50	32	37	38	37	39	33	31	30	37	47	38	32	28	40	43	28	32.2
Hannibal	Maximum	36	46	61	53	28	32	46	39	49	47	52	61	59	64	70	66	58	59	67	73	49	54	57	63	61	57	48	57	72	63	44	54.5
	Minimum	10	26	31	20	14	20	28	31	28	31	27	37	41	42	61	48	39	36	44	43	37	31	35	41	47	37	30	30	46	43	33	34.4
Jefferson City §§	Maximum	47	49	65	42	32	41	52	39	52	48	52	63	72	71	71	65	60	62	69	74	51	55	61	67	62	48	50	65	74	70	48	57.3
	Minimum	11	15	33	37	26	16	23	30	28	29	29	34	35	48	50	56	45	34	38	42	39	33	33	38	42	44	29	32	38	48	34	34.2
Kirksville	Maximum	36	46	60	51	28	34	44	41	51	49	54	61	59	60	69	67	58	60	66	61	48	53	57	63	57	52	48	56	69	68	70	54.2
	Minimum	4	29	32	18	11	18	24	32	23	33	23	35	40	38	55	45	40	30	28	40	32	27	30	35	46	37	26	39	36	48	28	32.1
Louisiana	Maximum	39	45	51	50	37	45	44	40	52	48	50	60	56	52	66	64	63	55	60	74	67	51	66	60	62	60	50	55	66	68	65	55.1
	Minimum	10	20	28	30	15	18	30	32	28	31	26	30	38	40	42	55	44	34	38	38	43	30	29	32	34	36	31	28	42	51	35	32.9
Macon §§	Maximum	38	46	64	30	35	34	42	42	53	52	51	61	62	63	71	51	61	62	70	75	50	51	58	64	61	58	54	58	73	62	55	55.5
	Minimum	5	14	29	27	12	11	22	20	21	25	23	21	32	39	42	49	42	30	31	42	33	29	30	31	38	39	23	28	35	49	30	29.7
Mexico §§	Maximum	40	48	65	41	30	37	48	39	51	48	56	63	65	70	72	62	61	63	71	76	50	55	58	66	62	50	52	61	75	70	50	56.7
	Minimum	8	11	22	32	11	13	22	30	26	31	26	27	33	43	45	55	43	33	33	44	37	30	30	35	35	39	28	27	30	42	31	30.9
Oakfield	Maximum	40	45	62	67	33	40	52	43	48	45	53	64	72	68	67	65	69	60	67	74	63	55	60	61	61	57	52	59	73	73	56	58.1
	Minimum	11	27	33	31	19	19	26	31	26	35	28	31	43	45	61	57	41	37	39	43	42	31	31	40	47	42	29	34	43	50	35	36.1
St. Catharine	Maximum	36	45	61	55	29	35	44	42	51	49	51	60	63	60	69	67	57	60	65	62	50	51	57	63	58	53	49	59	70	65	52	54.7
	Minimum	3	21	32	19	12	20	25	33	23	33	23	32	41	38	57	45	39	31	40	41	31	28	29	38	47	36	26	29	38	48	29	31.8
St. Louis (1)	Maximum	37	45	60	69	39	38	52	42	48	50	52	63	65	66	66	61	58	57	64	72	52	55	57	65	64	61	50	57	73	69	44	56.3
	Minimum	16	29	35	26	21	22	30	31	31	37	36	39	45	52	60	57	43	40	42	47	39	34	37	42	49	40	32	38	46	44	31	37.9
Unionville	Maximum	34	46	58	55	30	36	44	46	50	46	55	60	55	51	66	62	55	61	65	60	48	56	58	64	58	53	40	58	68	62	48	53.3
	Minimum	– 2	12	39	15	10	15	22	30	21	30	29	32	38	40	42	42	40	32	38	40	29	28	27	32	45	32	24	30	36	38	27	29.3
Warrenton §§	Maximum	40	49	61	56	30	37	50	37	59	50	56	65	70	69	68	67	58	60	70	76	53	59	59	66	60	51	50	62	74	69	45	57.1
	Minimum	10	11	31	34	16	16	24	27	25	26	28	29	33	44	46	55	46	34	35	40	40	29	31	37	38	45	29	29	36	50	33	32.4
Southeast Lowlands.																																	
Caruthersville	Maximum	50	54	70	78	67	53	61	50	59	53	61	67	74	67	69	66	68	67	75	80	72	62	71	76	71	67	65	68	76	76	69	66.5
	Minimum	21	33	30	47	30	28	32	29	36	35	37	33	41	54	60	56	56	42	39	45	46	42	41	44	48	53	39	41	46	46	42	41.4
Doniphan	Maximum	41	49	62	70	60	45	52	53	52	51	55	56	68	70	67	66	65	65	66	74	69	61	68	67	65	62	58	62	71	75	62	61.6
	Minimum	16	29	25	40	26	24	28	20	34	32	32	31	37	51	60	56	35	31	33	35	40	30	35	34	40	47	36	34	38	44	41	36.1
Jackson	Maximum	42	55	61	73	65	45	55	50	52	53	50	61	70	71	67	67	70	59	70	77	61	51	62	71	70	66	52	61	72	76	65	61.9
	Minimum	16	24	24	42	26	22	25	32	32	29	30	28	34	53	59	57	52	33	33	33	44	37	30	29	36	45	33	28	40	41	38	35.0
Marble Hill	Maximum	50	49	62	70	71	46	54	53	55	64	57	60	68	71	68	68	68	77	65	74	76	55	65	68	67	70	61	61	72	79	65	64.3
	Minimum	15	20	23	46	26	21	25	32	34	29	30	26	32	35	60	55	50	32	30	34	41	21	30	35	38	45	34	29	39	46	40	31.3
Poplar Bluff	Maximum	45	54	65	75	68	49	56	49	58	55	61	65	72	73	67	67	66	66	65	77	90	65	63	72	67	62	48	63	74	79	70	64.7
	Minimum	16	29	26	56	27	22	27	32	32	31	33	29	37	56	60	56	54	34	35	32	45	38	27	33	41	48	31	32	33	44	40	36.1
Ozark Plateau.																																	
Arcadia §§	Maximum	45	55	63	79	41	45	55	40	53	49	57	60	69	71	61	60	60	63	68	78	55	56	64	67	63	56	55	63	72	73	50	59.4
	Minimum	13	16	24	28	23	17	21	23	30	28	27	26	34	38	48	56	54	33	32	35	38	35	28	29	32	42	32	27	33	48	41	31.9
Birchtree	Maximum	45	55	61	61	58	49	55	45	52	46	55	59	68	68	62	62	62	64	63	76	68	61	67	69	61	54	56	64	72	75	62	60.7
	Minimum	11	27	20	47	21	21	27	22	26	34	28	30	41	55	59	51	47	34	39	45	40	35	32	38	46	41	31	36	42	45	39	36.5
Cassville	Maximum	55	59	71	67	66	48	55	50	54	47	56	61	70	65	70	72	60	65	71	75	71	70	68	70	65	62	59	72	71	72	66	64.0
	Minimum	14	32	32	[illegible]	19	23	35	31	28	30	23	26	41	53	62	50	44	28	31	33	43	40	31	44	50	39	29	36	35	46	40	35.4
Eldon	Maximum	44	50	59	55	32	41	56	44	48	41	57	60	68	68	65	69	58	61	75	75	65	70	65	52	58	56	52	65	72	73	60	58.8
	Minimum	9	27	32	22	14	20	31	20	20	31	27	28	42	41	61	50	41	31	35	50	30	31	29	35	45	36	26	39	38	48	30	33.1
Farmington	Maximum	46	55	65	60	56	56	53	46	52	52	53	61	67	73	68	64	64	61	72	77	68	52	63	71	72	65	51	64	74	71	66	61.9
	Minimum	13	34	31	46	22	26	29	32	30	31	31	31	41	49	60	57	47	35	36	41	43	34	31	31	42	41	31	30	43	42	38	36.4
Gano	Maximum	47	47	61	70	36	48	55	46	38	51	60	60	70	71	66	65	58	61	69	76	66	55	63	66	60	55	51	65	73	71	63	59.6
	Minimum	8	28	32	35	18	17	25	30	24	28	29	29	42	48	59	55	44	32	39	42	40	33	27	32	47	38	28	29	43	59	35	31.7
Hollister	Maximum	55	60	66	64	53	52	56	48	52	44	51	60	66	66	70	68	72	74	72	76	78	80	82	80	58	56	60	68	63	70	68	64.1
	Minimum	20	31	20	26	24	26	36	26	28	26	24	32	33	38	48	50	48	36	41	40	42	44	48	50	50	36	32	34	43	48	36	36.6
Koshkonong	Maximum	46	49	65	71	61	50	57	47	53	52	57	61	70	68	65	64	63	65	68	76	70	64	67	59	70	60	57	67	72	74	59	62.2
	Minimum	14	29	32	41	24	22	29	32	30	36	31	35	43	53	60	53	45	38	40	41	40	37	35	43	38	43	33	37	43	51	43	38.2
Lebanon §§	Maximum	46	53	68	60	35	47	51	39	47	43	56	60	70	69	70	65	60	61	68	78	55	63	67	76	59	48	55	67	72	75	51	59.3
	Minimum	9	12	27	27	17	17	23	31	20	32	25	25	34	36	50	56	45	30	31	40	40	37	31	32	40	48	27	27	38	46	34	32.0
Mountain Grove §§	Maximum	41	55	65	69	39	49	55	37	52	47	55	57	69	65	64	59	56	63	65	75	67	64	63	67	57	54	56	64	69	73	53	58.9
	Minimum	10	16	28	35	19	21	24	31	21	28	28	31	36	43	47	52	42	32	37	48	43	36	32	35	41	37	30	32	36	42	46	33.6
Neosho	Maximum	54	58	71	70	39	50	53	51	51	51	56	60	70	67	74	70	63	61	69	74	71	70	68	70	67	65	57	70	70	72	71	63.5
	Minimum	15	34	33	26	18	24	32	32	25	31	23	23	40	51	61	53	44	29	39	36	42	41	41	45	52	40	28	35	40	48	40	36.3
Rolla	Maximum	49	51	64	64	43	48	55	54	52	49	57	61	72	71	67	66	59	65	70	77	76	59	66	69	62	66	60	66	72	73	63	62.1
	Minimum	11	30	33	32	18	20	28	32	23	32	26	33	43	47	62	56	45	32	38	40	42	34	32	35	40	36	30	39	45	48	35	35.4
Springfield	Maximum	45	52	60	61	35	45	51	41	48	45	53	58	69	65	66	67	57	59	65	73	62	65	66	66	63	55	50	65	69	71	51	58.7
	Minimum	14	34	38	20	17	24	35	32	25	36	32	37	44	55	62	51	41	37	42	47	42	39	35	44	52	38	30	41	47	52	37	38.1
Southwest Plain.																																	
Amoret	Maximum	48	51	69	61	35	35	47	46	52	50	56	58	65	66	72	66	56	65	70	75	56	61	64	68	64	61	52	68	71	75	60	59.5
	Minimum	7	30	23	19	15	25	30	31	24	36	26	30	39	50	56	46	36	30	38	40	35	34	33	41	49	38	27	38	40	43	33	34.0
Appleton City	Maximum	50	51	70	63	31	39	51	41	53	47	56	56	68	66	74	68	61	62	68	76	56	61	64	67	61	58	52	68	69	76	61	59.8
	Minimum	12	33	37	22	12	26	32	36	26	38	27	32	44	53	60	59	41	33	40	43	38	38	35	43	51	41	30	39	43	48	35	36.7
Clinton	Maximum	52	56	71	52	38	38	55	45	55	50	58	65	70	71	75	67	61	64	71	77	62	61	70	65	59	56	52	69	70	77	65	61.2
	Minimum	13	29	32	22	15	24	31	35	26	37	25	30	44	49	57	49	41	31	41	39	38	38	32	35	49	40	30	38	41	41	31	35.0
Harrisonville §§	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Lamar §§	Maximum	54	56	74	43	38	48	51	42	55	42	58	60	70	67	75	62	60	66	70	77	63	66	67	67	66	52	57	70	70	77	57	60.6
	Minimum	6	30	36	41	17	27	33	26	24	36	21	31	40	54	57	52	39	31	39	40	39	39	37	44	49	40	29	38	42	46	37	36.5
Lamonte	Maximum	49	51	66	56	33	33	50	42	46	49	55	50	60	68	73	65	58	61	50	76	55	56	60	66	59	55	50	65	69	70	55	56.8
	Minimum	8	26	30	21	14	15	23	35	25	35	23	30	40	48	58	50	40	30	39	40	35	35	28	40	50	38	29	35	44	52	32	33.8
Marshall	Maximum	46	40	68	59	40	35	50	49	52	49	57	61	69	68	74	70	58	63	68	73	55	58	61	65	61	55	50	65	72	72	....	a59.1
	Minimum	8	28	31	22	12	28	29	31	26	37	26	32	42	46	59	49	49	33	39	40	35	33	32	35	47	39	29	32	38	48	31	34.4
Warrensburg	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Warsaw	Maximum	52	56	72	67	32	41	58	50	55	50	59	61	72	71	76	69	60	65	71	78	70	61	66	72	62	57	53	69	74	76	61	62.5
	Minimum	10	26	28	20	16	22	34	35	23	20	21	25	40	44	63	53	44	28	35	33	40	40	29	41	50	41	26	33	35	41	34	33.2
Northwest Plateau.																																	
Chillicothe	Maximum	40	46	65	58	32	40	47	45	54	56	59	63	65	63	73	64	56	65	67	65	60	59	60	65	61	56	50	64	74	70	65	58.3
	Minimum	3	20	35	18	13	14	28	33	24	27	24	34	42	41	53	48	38	33	39	41	40	31	34	38	48	38	29	32	40	40	30	32.5
Grant City	Maximum	35	37	58	54	30	31	39	43	47	49	56	61	56	54	54	59	53	58	65	65	47	52	57	59	58	57	48	61	69	64	56	52.6
	Minimum	3	13	32	11	9	20	24	29	25	29	24	31	40	32	52	38	33	31	33	31	29	31	31	39	46	36	26	35	43	46	29	30.3
Kansas City	Maximum	45	47	66	33	34	32	46	45	52	50	56	58	62	64	70	53	55	65	68	68	52	54	58	62	61	49	47	65	68	66	49	54.8
	Minimum	9	22	33	19	15	25	29	33	33	35	34	40	44	48	48	43	40	41	45	39	33	36	38	45	49	38	31	41	49	41	34	35.8
Kidder §§	Maximum	41	48	64	24	33	34	60	54	59	59	61	61	64	74	65	64	63	63	65	58	60	54	57	58	55	48	45	65	70	61	47	55.9
	Minimum	6	20	34	24	12	23	27	32	28	32	28	36	33	40	59	45	34	36	42	45	32	31	35	40	47	38	29	35	44	48	31	33.7
Lexington §§	Maximum	40	48	66	31	32	32	50	48	53	50	59	60	66	66	72	56	60	61	68	73	54	58	60	64	56	50	50	65	73	70	52	56.3
	Minimum	4	24	34	30	14	24	28	32	25	35	28	36	45	45	59	48	40	35	41	45	34	35	34	41	50	39	29	35	41	52	32	35.4
Maryville §§	Maximum	37	38	60	41	31	30	40	40	50	48	57	60	52	61	62	53	51	63	66	50	50	51	58	59	57	47	47	64	69	53	49	51.5
	Minimum	– 2	4	14	16	8	8	21	25	23	27	22	24	36	36	35	36	31	28	32	39	28	28	30	37	38	34	24	24	34	41	27	26.1
Oregon	Maximum	36	39	58	47	29	33	40	43	48	49	56	59	60	62	63	52	52	63	66	60	48	53	57	62	59	54	46	65	68	62	48	52.8
	Minimum	2	14	30	13	8	22	25	28	26	29	24	34	38	39	48	35	32	32	42	34	28	31	35	40	45	34	25	34	48	44	27	30.5
St Joseph	Maximum	40	42	61	30	30	32	41	46	51	48	57	58	60	63	65	55	53	65	67	56	59	56	60	60	60	49	45	66	70	61	50	53.1
	Minimum	8	19	29	17	13	25	28	32	26	33	28	39	44	42	45	40	37	37	48	37	32	35	38	44	43	36	29	37	51	40	32	33.7
Trenton	Maximum	34	38	57	50	28	35	36	42	48	46	52	58	59	58	66	60	58	62	62	58	48	56	56	60	56	58	59	68	69	62	52	53.3
	Minimum	2	17	30	17	11	18	27	29	28	32	26	31	40	38	48	44	33	33	40	40	28	30	33	37	47	28	33	40	46	40	29	31.7

a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.


Scale of Shades.
▢ 0 to 1 inch.
▤ 1 to 2 inches.
▨ 2 to 4 inches.
▤ 4 to 6 inches.
▦ Over 6 inches.
Based on 680 records.
M. G.

Daily Evaporation (inches) and Wind Movement (miles) for March, 1919, at Columbia, Mo.

Date.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mo.
Daily evaporation	*	*	*	*	*	*	....	.000	.040	.053	.078	.076	.111	.083	.040	.072	.065	.126	.113	.161	.149	.047	.095	.108	.128	.015	.094	.092	.116	.154	.171	2.187
Daily wind movement	....	....	....	....	....	....	29	26	30	27	29	27	57	39	57	84	69	82	42	53	69	73	48	49	46	37	85	43	43	53	85	1,316

For description of station and equipment see Annual Summary, 1918.

*Frozen.

Observations taken at 6.45 a. m.

OBSERVERS' REMARKS.

Houston—March has been a fine month for farm work. Wheat is looking fine; oat sowing is over. Peach trees are in full bloom.

Lebanon—The weather has been excellent for the peach crop. The peach crop is safe so far.

Lockwood—The month has been cool. The ground in this locality is rather wet and cold and farm work is backward. Oats just about all seeded. Sunshine needed.

Brunswick—The sandy bottoms between here and Chillicothe absorbed much surplus water that fell farther north.

Fayette—Rather unusual occurrence on the 20th when at about 4 p. m. the temperature dropped 8° in two or three minutes.

Kirksville—Meteorogically an uneventful month.

Louisiana—There were heavy frosts on the 27th, and 28th.

St. Catherine—Grass and wheat look as green as they usually do the latter part of April.

Bethany—On the morning of the 16th creeks and rivers were out in the bottoms.

Grant City—Unfavorable for farm work but good for all grasses. Wheat condition excellent; pastures starting good; very few oats sown but the work is progressing now.

Lexington—Ideal month in every respect. Sufficient moisture, and an abundance of sunshine.

Amoret—The oats crop was all seeded during this month. Excellent weather for farm operations.

Appleton City—The weather has been fine for outdoor work; some plowing done; potatoes planted. A tornado hit three miles southeast of here and the roar could be heard at this town about 3.50 p. m. to 4.20 p. m. on the 15th; high wind and almost a cloudburst.

Lamonte—Oats all seeded; some up. Early gardens and potatoes planted. Wheat condition good. Prospects for fruit very good; plum and peach trees coming into bloom.

Warsaw—The month was ideal for farm work; and wheat is in excellent condition. Fruit prospects fine. Meadows and pastures coming nicely; oats good; plowing advanced.

Eldon—Early gardens made. Oats seeding about finished. Plowing for corn well under way.

Farmington—While there was more rainfall than in either January or February, the month was inclined to be dry and fine for outdoor work. The soil is in splendid condition, and an unusual amount of plowing has been done. Wheat is looking fine.

DAMAGING STORMS.

The 14th-15th was a period of severe thunderstorms and heavy rain over practically all the State north of a line drawn from Kansas City eastward to Louisiana. Strong squall winds and hail were reported from several stations, but with no material damage resulting. The rains caused almost all creeks and rivers tributary to the Grand, Platte, and Nodaway rivers to run bank full, or to overflow the first bottoms. Damage resulting from floods in this area is estimated at $10,000.

Excessive rainfall conditions prevailed also over much of the southeastern lowlands which resulted in some temporary flooding of a local character. No damage has been reported, but all farm work was for a time impossible.

One or perhaps two storms of a violent nature visited portions of Vernon, St. Clair, and Henry counties on the afternoon of the 15th. While but one observer claims to have seen a funnel-shaped cloud, and while the wreckage does not indicate, in many cases, a well defined rotary motion, there is sufficient evidence to classify them as tornadoes, though of minor intensity perhaps. The first point of damage was three miles southwest of Nevada, at 4.15 p. m. Here, in a path one mile long and a fourth as wide, a small school house, a farm residence, four large barns, and a silo were completely demolished; while two other farm residences were badly damaged. The damage is estimated at about $16,000. The direction of the storm was from southwest towards the northeast.

The following notes are taken from the report of the observer at Appleton City, the next point from which damage is reported:

"The 15th of March was a day of frequent slow showers; about 3.50 p. m. rain began to fall in earnest, and about 4.20 p. m. reached almost the proportions of a cloudburst and continued in this manner for about 20 minutes. The wind had been in the southeast most of the day until about 4.00 p. m., when it suddenly began to blow very hard from the southwest, and the sky became quite dark. During the time of excessive rainfall and strong wind, the wind veered to the northeast for a short time.

"About 4.30 p. m., a 'twister' struck the farm of George Clark, three miles southeast of here, making a loud roar while in progress that could be heard plainly in this city. No funnel-shaped cloud was observed, but the wreckage shows a rotary storm wind. The path was about 150 feet in width. Two large stock barns were demolished; seven milk cows were killed and other stock injured. Parts of the barns were carried about one-half mile away. A concrete and tile silo at the east end of the dairy barn was undamaged, and a small building standing between the two barns was untouched. The storm lifted before passing beyond this farm, though it was near enough to the ground to take the tops off of the trees at a farm place a mile further eastward.

"At least $5,000 damage was done; . . . . one boy was slightly injured on the knee by flying debris."

Other details of the report are omitted for lack of space. The storm moved from southwest to northeast, and was probably a secondary storm formed in the same area of air instability which extended from Vernon County northeastward to Henry County, the next point of damage.

The storm seems to have lost force by the time it reached Clinton, the damage being largely confined to wrecking small buildings, hurling light objects through windows, etc. The path of damage was about 50 to 60 feet in width, and although rotary winds are evident, no funnel cloud was observed. Damage in Clinton estimated at $5,000 with an additional $2,000 loss to rural dwellings. It reached this point at about 5.00 p. m. and is likely the same storm that visited the vicinity of Appleton City.

O. R. R.

05
MS

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

[illegible] LIBRARY
JUN 20 1919

CLIMATOLOGICAL DATA

MISSOURI SECTION

IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

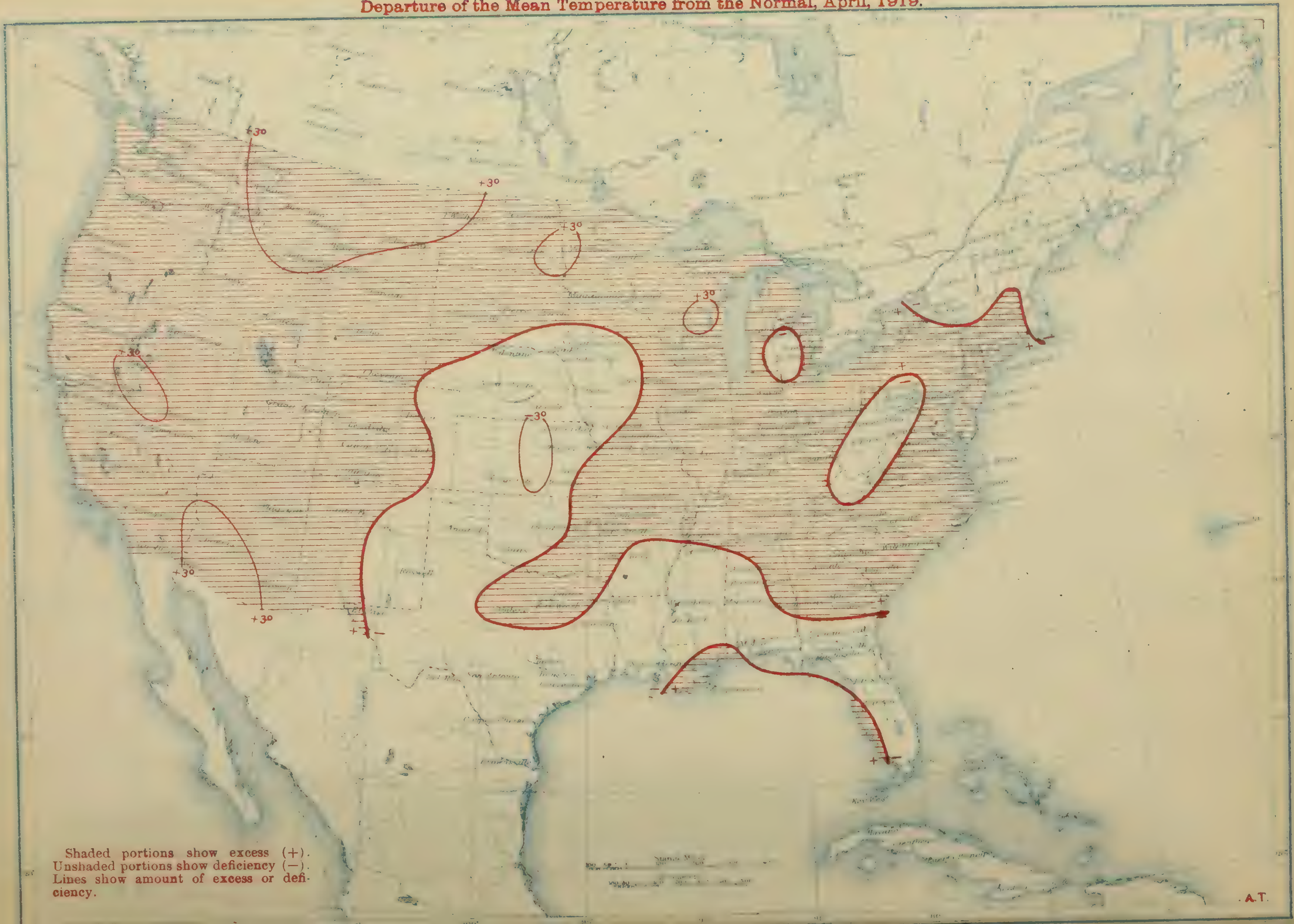
APRIL, 1919

BY

GEORGE REEDER
METEOROLOGIST

COLUMBIA, MO
WEATHER BUREAU OFFICE
JUNE 3, 1919.

Departure of the Mean Temperature from the Normal, April, 1919.



Shaded portions show excess (+).
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXIII. Columbia, Mo., April, 1919. No. 4

GENERAL SUMMARY.

April, 1919, was without unusual features, the meteorological elements differing but little from their normal values. Brisk to strong winds occurred on several days but no material damage was done, except in the eastern part of Butler County on the 23d. Local hail storms caused some damage in Buchanan, Boone, and Butler counties, widely separated points, on the 21st, 23d, and 29th; for detail report see page 32. The northern tributaries of the Missouri River were bankfull, and overflowed some of the lower bottom lands. Freezing or near freezing temperatures were general on the 26th, but damage was confined to localities in the northeastern plain, and in the valleys and other low places in the Ozark Plateau.

Farm work was delayed by wet soil in the northwestern plateau but made good progress elsewhere. As a whole, the weather was favorable for winter wheat, and for meadows and pastures.

TEMPERATURE.

The monthly mean temperature for the State as a whole, as determined from the records of 66 stations, was 55.3°. This is practically normal; and 4.5° warmer than the same month in 1918. The temperature distribution was not uniform. The southeastern lowlands, eastern and western Ozarks, and most of the northeastern plain were warmer than normal; while the central Ozarks, the Gasconade and Osage valleys, and the Missouri from about Warren County to Cooper County, and nearly all of the northwestern plateau were cooler than normal. The 1st was the coldest day of the month, with 32° or lower generally, and a minimum of 20° at one station, Goodland, Iron County. Day temperatures of 80° or higher occurred on the 6th, and 22d; and reached nearly that value on the 7th, 14th, and 23d. Freezing temperatures occurred on the morning of the 26th generally.

PRECIPITATION.

The average precipitation for the State, 83 stations reporting, wai 3.01 inches. The departure from the normal for 74 stations having 10 or more years' record was minus 0.64 inch. The precipitation was unevenly distributed. It was excessive in the northwestern plateau, in six or seven counties in the southwestern plain, and locally in the southeastern lowlands; in the remainder of the State it was quite noticeably deficient. Showers, however, fell during each decade, the heaviest and most general falling on the last days of the month. The greatest local monthly amount was 5.72 inches, at Grant City, and the least was 1.48 inches, at Goodland. The greatest fall in any 24 consecutive hours was 3.05 inches, at Bolivar on the 28th.

Snow flurries occurred on the 25th and 26th quite generally but melted as fast as they fell.

WIND.

The prevailing winds were from the south. The average wind movement for the State, based upon the reports of 8 stations equipped with anemometers, was 8,161 miles, 11.3 miles per hour or about 10 per cent above normal. Brisk to strong winds were general on the 10th, and 19th and were strong locally on 6th, 7th, 8th, 9th, 14th, 16th, 21st. and 23d.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine for the State was 223, or about 56 per cent of the possible, and about 5 per cent below normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense--4th, and 30th.

Frosts, light--2d, 11th, 17th, 18th, 24th, and 26th. Heavy--1st, 18th, and 26th. Last killing frost, on the 26th, in northeastern plain, and in valleys and low places in Ozark Plateau.

Hail--5th, 6th, 8th, 13th, 14th, 17th, and 27th. Severe hail fell in Buchanan County on the 21st, eastern Butler County 23d, and in Boone County 29th. (See page 32.)

Halos, solar--2d, 5th, 8th, 11th, 13th, 18th, 23d, 24th, 25th, and 26th. Lunar--6th. 12th, and 13th.

Thunderstorms, more or less general--7th, 9th, 14th, 21st, 22d, 23d, and 29th. Local--5th, 6th, 8th, 15th, 16th, 21st, and 28th.

ERRATA FOR FEBRUARY, 1919.

Arcadia--Date of highest temperature, 11th. Jefferson City--Monthly mean temperature, 33.6°; departure from normal, plus 2.8°.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour	Direction.	Date.
Columbia	29.97	76	......	228	57	6,881	9.6	39	nw.	21
Hannibal	29.97	76	......	......	....	7,729	10.7	40	sw.	10
Kansas City	29.96	77	59	225	57	9,813	13.6	40	nw	16
St. Joseph	29.95	76	60	159	48	8,003	11.1	38	nw.	23
St. Louis	29.98	70	53	223	56	10,833	15.0	50	s.	7
Springfield	29.98	76	53	258	65	8,779	12.2	40	s.	9
Cairo, Ill	30.00	71	57	...	....	6,673	9.3	38	s.	14
Keokuk, Iowa	29.98	77	61	212	52	6,578	9.1	36	sw.	10

COMPARATIVE DATA FOR APRIL.

Year.	Temperature.				Precipitation.				Number of Days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	57.9	+2.8	91	20	1.83	−1.89	.....	.....	5	....	....	....
1889	55.7	+0.6	90	26	2.52	−1.20	.....	.....	8	....	....	....
1890	56.2	+1.1	93	24	3.17	−0.55	.....	.....	8	....	....	....
1891	56.8	+1.7	93	15	3.90	+0.18	.....	.....	9	....	....	....
1892	53.1	−2.0	88	26	5.66	+1.94	4.25	.....	11	9	8	13
1893	53.9	−1.2	95	19	7.84	+4.12	5.50	.....	12	8	9	13
1894	56.1	+1.0	93	20	8.17	−0.55	2.49	T.	8	12	10	8
1895	57.9	+2.8	100	24	1.95	−1.77	2.88	T.	7	14	8	8
1896	61.9	+6.8	92	17	3.51	+0.21	3.00	0.0	9	11	12	7
1897	54.4	−0.7	88	21	4.55	+0.83	3.50	T.	10	10	11	9
1898	52.5	−2.6	90	14	3.65	−0.07	3.25	T.	10	12	9	9
1899	54.0	−1.1	96	6	3.70	−0.02	3.76	3.8	8	12	9	9
1900	56.7	+1.6	89	21	3.36	−0.36	3.82	0.7	9	11	10	9
1901	53.3	−1.8	94	24	2.85	−0.87	2.23	1.8	8	14	7	9
1902	53.9	−1.2	95	19	2.66	−1.06	4.35	T.	11	13	11	6
1903	55.9	+0.8	91	26	3.54	−0.18	4.06	1.2	9	11	10	9
1904	49.0	−6.1	84	19	5.75	+2.03	6.10	2.7	9	15	6	9
1905	54.9	−0.2	92	20	3.19	−0.53	4.00	0.3	6	14	8	8
1906	59.5	+4.1	93	22	2.24	−1.41	2.45	0.0	8	17	7	6
1907	48.7	−6.4	89	16	3.43	−0.29	2.75	T.	8	11	8	11
1908	56.6	+1.5	90	18	5.30	+1.58	3.30	T.	11	11	8	11
1909	54.8	−0.3	93	19	4.35	+0.55	3.80	T.	7	13	9	8
1910	54.8	−0.3	95	21	3.51	−0.21	3.50	0.9	11	12	7	11
1911	53.5	−1.6	89	20	4.99	+1.27	4.27	T.	10	12	8	10
1912	56.0	+0.9	97	24	5.98	+2.26	4.50	0.7	10	13	7	10
1913	56.2	+1.2	94	25	3.33	−0.45	3.90	T.	7	16	5	9
1914	55.2	+0.1	91	18	3.14	−0.74	3.06	T.	8	12	7	11
1915	61.9	+6.5	96	18	2.03	−1.82	2.08	T.	7	16	8	6
1916	53.5	−1.8	93	21	3.23	−0.69	2.35	1.9	10	11	8	11
1917	53.2	−2.3	89	19	5.97	+2.02	1.80	1.2	12	12	6	12
1918	50.8	−4.4	93	19	5.10	+1.24	3.50	0.9	11	12	6	12
1919	55.3	+0.3	91	20	3.01	−0.64	3.25	T.	9	12	7	11

SUPPLEMENTAL TABLE OF DATA.

Stations.	Length of record, years.	Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
		Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Arlington	15	1.85	−1.87	1.50	0	3	18	3	9	......	Wm. R. Bennett.
Booneville	41	3.21	−0.70	1.03	0	9	15	0	15	se.	C. Randecker.
C. Girardeau	11	2.05	−1.66	0.50	0	8	14	3	13	s.	D. L. Albert.
Glencoe	1	2.55	....	0.92	0	6	20	2	8	......	L. M. Beard.
Hermann	41	2.27	−1.26	0.56	0	9	19	3	8	w.	W. E. Crawford.
New Madrid	21	2.60	−1.51	0.70	0	10	9	15	6	se.	Miss Josie Smith.
Osceola	18	3.97	−0.10	1.38	0	8	12[a]	3[a]	14[a]	....	Wm. E. Mathews.
Pacific	1	2.14	....	0.62	0	9	13	5	12	......	Mark Waters.
Steelville	16	2.04	−2.16	0.72	0	6	16	0	14	s.	A. Kreamelmeyer.
Tuscumbia	1	3.64	....	1.45	0	9	11	3	16	sw.	C. B. Wright.
Union	1	2.78	....	0.80	0	10	11	4	15	nw.	J. Wm. Keller.
Valley Park	1	2.85	....	0.80	0	10	16	6	8	......	T. W. McNeese.
Waverly	3	2.90	....	1.08	0	11	13	2	15	sw.	J. W. Cauthorn.

Climatological data for April, 1919.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip. .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	37	53.2	−1.2	83	22	29	1	38	2.61	−0.66	0.70	T.	14	13	0	17	n.	Louis Benecke.
Clifton Hill	Randolph	751	20	56.0	+2.4	82	22	30	18	59	2.09	−1.25	0.56	T.	12	11	12	7	......	L. S. Harlan.
Columbia	Boone	781	30	55.0	+0.7	82	22	27	1	36	2.84	−0.86	1.12	T.	12	7	11	12	se.	U. S. Weather Bureau.
Fayette	Howard	725	32	49.6	−5.5	75	6	20	1	30	2.13	−1.20	0.50	0	7	...	...	...	......	Prof. L. J. Abernathy
Fulton	Callaway	818	15	56.0	+1.6	83	22	23	1	42	1.96	−2. 9	0.50	T.	13	14	6	10	sw.	Dr. C. J. Elmore.
Gorin	Scotland	700	28		......				...	...	3.59	0.23	0.83	T.	13	3	11	16	sw.	J. W. Pulliam.
Hannibal	Marion	531	24	53.8	+0.2	81	6	28	1	32	2.44	−0.81	0.70	T	12	8	10	12	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	31	54.3	−2.1	84	22	28	1	42	2.72	−0.87	0.71	0	10	15	7	8	s.	Miss Emma Swift.
Keytesville	Chariton	660	4	......	......	......	......	......	...	...	......	......		...	...	...	...	...	......	J. T. Dewey, M. D.
Kirksville	Adair	969	25	52.0	+0.1	77	6	27	1	32	3.36	−0.10	0.75	T.	12	8	12	10	nw.	Prof. Mark Burrows.
Louisiana	Pike	469	39	53.8	+0.1	82	6	24	1	55	2.03	1.12	0.60	0	10	19	5	6	s.	J. T. Farrell.
Macon	Macon	875	19	52.2	−1.7	84	23	27	1	39	2.36	−0.51	0.55	0	13	10	10	10	se.	W. C. Brown.
Mexico	Audrain	797	35	53.2	−1.1	85	22	24	1†	47	1.55	−1.92	0.37	0	7	16ᵃ	0ᶜ	13ᵃ	e.	R. M. Llewellyn.
Oakfield ‡‡	Franklin	793	16	57.4	+1.5	83	14	27	1	38	2.26	−1.75	0.78	T.	9	4	15	11	s.	E. E. Steines.
Palmyra	Marion	652	7	......	......	......	......	......	......	......	......	......			...	...	...	...	......	W. B. Markell.
St. Catherine	Linn	850	8	52.4	......	81	22	26	1	35	2.3.	......	0.68	T.	14	9	12	9	s.	L. D. Baker.
St. Charles	St. Charles	450	39	56.5	+1.2	83	6†	25	1	34	1.79	−1.73	0.70	0	5	8	11	11	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	71.	46	57.5	+1.4	82	22	32	1	3	1. 6	−1.76	0.71	T.	11	10	12	8	s.	U. S. Weather Bureau.
St. Louis (2)	do.	578	7	56.8	......	83	11	31	1	32	1.65	......	0.50	0	12	13	9	8	se.	St. Louis University.
Shelbina	Shelby	779	25	......	......	......	...	...	...	..	1.96	−1.23	0.55	0	6	......	......	..	......	S. G. Parsons.
Steffenville	Lewis	656	24	54.0	+0.8	83	6	25	1	41	2.53	−0.87	0.75	0	8	9	10	11	w.	Frank Hall.
Unionville	Putnam	1,072	21	51.8	+0.7	77	6	27	1	31	5.04	+1.55	1.00	T.	15	9	1	20	n.	Geo. W. Davis.
Warrenton	Warren	865	26	54.6	−0.2	81	22	26	1	37	1.98	−2.24	1.19	0	11	4	16	10	nw.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	46	52.9	+0.9	77	5	31	1	31	1.94	−1.40	1.00	T.	15	6	12	12	ne.	U. S. Weather Bureau.
Section means and	extremes	......	...	54.2	0.0	85	22	23	1	47	2.40	−1.05	1.12	T.	11	10	9	11	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	26	63.6	+3.4	92	22	33	1	40	5.50	+1.57	1.40	T.	10	19	3	8	e.	H. E. Averill.
Doniphan	Ripley	341	12	59.2	+1.2	88	2	25	1	39	3.05	−2. 6	1.30	T.	10	14	6	10	sw.	W. W. Martin.
Jackson	Cape Girardeau	458	26	60.4	+3.5	94	21	25	1	46	2.68	+1. 1	0.82	0	8	8	12	10	s.	L. M. Bean.
Marble Hill	Bollinger	420	25	61.7	+5.2	94	11†	25	1	50	2.78	−1.53	1.25	0	4	12	13	5	s.	W. A. Kinder
Patton (near)	Bollinger	500	3	......	......	......	......	......	....	.	1.77	......	0.95	0	6	...	...	...	......	George F. Ellis.
Poplar Bluff	Butler	339	13	60.4	+1.1	89	22	23	1	53	2. 5	−2.02	1.18	0	8	11	3	13		Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill.	359	14	59.6	+1.3	81	23	31	1	22	4.78	+1.21	1.57	0	11	3	12	15	s.	U. S. Weather Bureau.
Section means and	extremes	......	...	60.8	+2.6	94	11†	23	1	53	3.25	−0.19	1.57	T.	8	12	8	10	s.	
Ozark Plateau.																				
Arcadia	Iron	925	39	54.8	−0.6	87	22	22	1	40	1.75	−2.73	1.16	T	8	14	10	6	s.	Arcadia College.
Birchtree	Shannon	1,078	23	58.0	+1.1	86	22†	24	1	35	2.45	−2.21	0.75	T	7	17	3	10	s.	V. H. Kirkendall.
Bolivar	Polk	1,071	29	57.6	+1.5	87	22	28	18†	43	5.45	+1.67	3.45	0	8	13	9	8	sw.	K. H. Brown.
Cassville	Barry	1,475	20	57.8	+2.0	86	21	26	18	52	1.98	−1.95	0.75	0	5	14	8	8	w.	William Talbert.
Dean ‡‡	McDonald	1,000	20	58.6	+1.3	87	22	23	11	49	2.84	−1.33	1.26	0	6	23	2	5	w.	E. E. Dean.
Eldon	Miller	934	20	53.2	−2.5	85	22	22	1	40	4.33	−0.20	1.78	T.	8	4	15	11	ne.	E. H. Shepherd.
Farmington	St. Francois	918	8	58.4	+1.1	84	14†	26	1	46	1.50	2.33	0.6	T.	8	12	11	7	sw.	Robert Forsyth.
Gano ‡‡	Dent	1,250	13	57.0	+1.2	83	14	22	1	41	1.49	−2.95	0.45	T.	6	16	6	8	s.	A. C. Leach.
Goodland	Iron	1,000	12	56.4	+1.8	85	22	26	1	43	1.48	−3.54	0.78	0	6	16	9	5	s.	F. M. Adams.
Hollister	Taney	735	33	......	......	......	......	......	....	...	......				...	......	......	...	......	W. P. Chapmann.
Houston	Texas	1,280	24	57.5	+1.7	85	22	24	1	30	1.77	−2.84	0.72	T.	5	15	4	11	se.	R. F. Harmon.
Koshkonong	Oregon	958	18	59.0	+1.2	87	22†	28	1	31	3.94	−0.85	1.47	0	8	12	5	13	se.	R. M. Hitt.
Lebanon	Laclede	1,265	28	54.3	−1.6	86	22	28	11	44	3.05	−1.24	1.08	0	9	18	6	6	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	22	57.0	+0.8	86	22	29	1	37	3.91	+0.25	1.09	0	9	15	3	12	se.	C. S. Crow.
Mountain Grove††	Wright	1,490	20	53.6	−0.8	85	22	26	1	17	2.27	−2.77	0.77	0	7	9	8	13	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	34	58.4	+0.4	85	22†	29	11†	44	2.10	2.13	0.55	0	10	19	3	8	sw.	W. O. Buck.
Rolla	Phelps	1,139	35	58.3	+3.3	87	22	25	1	40	2.64	−1.99	0.46	T.	11	16	9	5	s.	Prof. Elmo G. Harris.
Springfield	Greene	1,350	30	56.4	+0.7	81	22	30	1	33	3.55	−0.31	2.15	0	11	17	8	5	s.	U. S. Weather Bureau.
Section means and	extremes	......	...	56.8	+0.7	87	22†	29	1	52	2.75	−1.61	3.05	T.	8	15	7	8	s.	
Southwest Plain.																				
Amoret	Bates	831	12	54.8	0.0	85	22	28	1	40	3.31	−0.84	0.82	0	9	14	6	10	s.	Darby Fruit Farm.
Appleton City	St. Clair	853	26	57.0	+1.1	85	23	30	1	37	3.57	−0.30	1.55	0	7	10	14	6	sw.	W. G. Bigelow.
Clinton	Henry	765	30	55.6	−0.2	87	22	27	1	51	3.72	−0.32	1.08	0	9	10	11	9	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	912	44	52.2	−1.8	81	22	28	1	40	3.10	−0.30	0.84	0	9	16	1	13	...	A. J. Sharp.
Lamar	Barton	980	36	57.0	+0.3	87	22	31	1†	44	5.16	+1.91	1.84	0	7	11	7	12	s.	Joe W. Springer
Lamonte	Pettis	863	30	53.6ᵃ	1.9	82	6†	25	1	35	1.72	−2.04	0.40	T.	5	9ᵃ	15ᵃ	5ᵃ	sw.	J. Ed. Hall.
Marshall	Saline	779	29	56.0	+1.5	84	22	26	1	41	1.99	−1.71	0.55	T.	8	11	11	8	w.	Dr. W. H. Black.
Nevada	Vernon	860	25	56.8	+1.7	83	22	30	1	38	5.71	+1.99	2.61	0	8	13	8	9	s.	George A. Kaupp.
Warrensburg	Johnson	883	38	57.2	+1.1	81	6	27	1	41	2.24	−0.98	0.54	0	6	11	13	6	sw.	Geo. H. Collins.
Warsaw	Benton	715	20	57.2	+1.2	88	22	24	1	45	4.71	+0.52	1.50	0	10	11	14	5	w	J. R. Smith, M. D.
Section means and	extremes	......	...	55.7	+0.3	88	22	24	1	51	3.56	−0.30	2.61	T.	8	12	10	8	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	31	54.2	+0.5	81	22	28	1†	33	2.60	−0.61	0.70	0	7	13	12	5	sw.	F. G. Ashbaugh.
Bethany	Harrison	916	27	52.6	+1.4	82	22	25	1	38	5.15	+2.19	1.56	T.	11	7	8	15	se.	M. H. Moulton.
Chillicothe	Livingston	768	10	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	R. L. Isherwood.
Conception	Nodaway	982	32	51.2	−1.1	79	22	29	1	32	4.76	+2.05	1.16	T.	10	2	15	13	nw.	Fr. Adelhelm Hess.
Gallatin	Daviess	803	17	......	......	......	......	..	......	......	3.83	+0.22	1.61	T.	9	11	9	10	nw.	Robert R. Wynne, Jr.
Grant City	Worth	1,134	24	50.8	−1.5	76	6†	28	1	32	5.72	+2.85	1.40	T.	10	7	7	16	e.	W. H. Campbell.
Kansas City	Jackson	963	28	54.4	+0.1	85	22	34	1	35	3.49	+0.20	1.05	T.	10	11	9	10	s.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	26	51.2	−1.7	81	22	28	1	35	3.80	+1.01	0.90	0	12	13	5	12	sw.	J. F. Sharp.
Lexington	Lafayette	688	35	55.3	+1.0	85	22	27	1	34	2.14	−1.18	0.51	0	11	13	0	17	s.	J. W. Keithley.
Liberty	Clay	861	28	56.8	+1.3	88	22	28	1	40	4.19	+1.09	1.40	T.	7	13	6	11	s.	W. C. Wilmott.
Maryville	Nodaway	1,036	26	47.6	−3.0	78	22	27	1†	43	4.67	+1.97	0.89	0	14	10ᵃ	2ᵃ	17ᵃ	e.	J. R. Brink.
Oregon	Holt	1,048	61	50.8	−1.9	79	22	28	1	35	4.14	+0.89	1.36	T.	9	11	5	14	nw.	Tom Curry.
St. Joseph	Buchanan	967	45	53.2	−0.6	83	22	33	1†	32	3.55	+0.68	1.59	T.	9	9	10	11	nw.	U. S. Weather Bureau.
Tarkio	Atchison	976	17	51.4	−1.9	79	22	29	1	36	5.21	+2.25	1.60	0	11	11	5	14	nw.	John F. Frazier.
Trenton	Grundy	822	22	52.1	−1.1	79	22	30	1	37	3.80	+0.94	0.88	T.	13	11	6	13	se.	W. H. Estes.
Section means and	extremes	......	....	52.4	−0.6	88	22	25	1	43	4.08	+1.04	1.61	T	10	10	7	13	nw.	
State means and	extremes	......	....	55.3	+0.3	94	11†	20	1	53	3.01	−0.04	3.25	T.	9	12	7	11	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports used in determining section or division means.

Reference letters, ᵃ, ᵇ, ᶜ, appearing in the table indicate number of days missing; for example, ᵇ represents two days, etc.

† Also on other dates. †† Received too late to be included in means and summaries. ‡‡ Post-office addresses of these stations are as follows: of Oakfield, Pacific, R. F
No. 1; of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily precipitation for April, 1919.

Stations.	Watersheds.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
onville ‖	Missouri			.36	.09			.06	.20	T	1.03												.36					T.	.28	.26	.60		3.24
unswick‖	Grand			.28	.10			.40	.17	.05	.70				.15			.03					.35	.10				.08	.05	.10	.05		2.61
ifton Hill	Chariton		.35	.07			.10	.15		.56	.03				.06		.02						.35					.16	.04	.20			2.09
lumbia***	Missouri		.19	.03			.50	T.		.45		T.		T	.02	.02	.01					.30	.01	T				.16	.04	1.11	T.		2.84
yette	do						T.	.27	.50	.20												.50		.23				.25	T.	.18			2.13
lton	do		.05	.25			.01	.13		.25	.12	.01		T.	T.		T.	.02					.50					.36	.04	.11	.05		1.90
encoe ‖	Meramec			T					.33								T.						.92					.15	.40	.25	.50		2.55
rin	Mississippi		.07	.14		.34		.21		.43	.32				.27	.02	.02						.83					.43		.47	.01		3.59
nnibal***	do		.03	.03			T.	.09	T.	.09	T.			T.	.56		.01	.01					.70					.27	.02	.60	.03		2.44
rmann‖	Missouri			.14	T.				.25		.25				T.			.05					.48					.09	.56	.30	.15		2.27
ferson City‖	do			.53	.02		.15		.18		.32												.26					.26	.71	.14	.15		2.72
ytesville	Chariton																																....
rksville	Mississippi		.14	.04				.39		.75	.07				.32		.05	.10					.69					.22		.52	.07		3.36
uisiana	do						T.	.18		.12	.05				.60		.02	.05					.10	.15				.27	T.	.49			2.03
acon ‖	Chariton			.22	.01		T.		.11	.85		T.			.22		.02	.12				.28		.04				.03	.14	.11	.21		2.36
xico ‖	Mississippi			.37	.10			.07		T	.15				T								.20							.33	.33		1.55
kfield	Meramec		T	.04			.03			.10						T.	T.	.05					.78					.27	.57	.15	.27		2.26
cific ‖	do			.08	T			T	.03		.16							.06					.55					T.	.36	.62	.28		2.14
lmyra ‖	Mississippi																																....
Catherine	Grand		.20	.05				.68	T	.40	.05	T.			.16	T.	.05	.01				.06	T.	.06				.26	.01	.25	.07		2.31
Charles	Missouri			T					T.	T													.70					.05	.70	.29	.05		1.79
Louis (1)***	Mississippi		T	.02				.06		.05				.03	T.	.03	T	T				.37	.13					.12	.56	.33	.06		1.76
Louis (2)	do		T	.03				.07		.12				.05		.01	.01	T.				.31	.12					.11	.50	.26	.06		1.65
elbina	do							.22		.55					.22							.22						.20	.55				1.96
ffenville	do		.10	.15				.08		.45	.45				.75		T.							T.				.30		.25	T.		2.53
non ‖	Meramec			.02				.19	.01		.18							.04					.61					.09	.49	.44	.80		2.78
ionville	Chariton		.50				T	.70	.30	.70	.10			.50	.10	.04	.15					.90	.10				T.	.20	.50	.15	.10		5.04
lley Park‖	Meramec			.06					.22		.11					.06	.06	T.					.80					.13	.43	.63	.35		2.85
renton ‖	Mississippi			.05	.01				.02		.24					T.	.01	.01					1.09					.10	.24	.13	.08		1.98
okuk, Iowa***	do		.02	.03		.02		.12	.02	.12	T.			.01	.17		.01	.01				.50	.50					.37	T.	.02	.02		1.94
Southeast Lowlands.																																	
pe Girardeau	Mississippi								.10		.15					.10	.05								.20				.25	.90	.30		2.05
uthersville	do			T	.20				1.37	.40	.48			.50		.48										.05		.12	T.	.50	1.40		5.50
niphan	Black			.05						.22				.05		.25								.10	T.	.08		.05	.10	.85	1.30		3.05
kson	Mississippi								.01	.10						.56		.02										.18	.81	.82	.18		2.68
rble Hill	do															1.25													.25	1.00	.28		2.78
w Madrid	do				.20				.70		.60			.01		T.	.36								.02		.01	T.	.03	.63	.04		2.60
ston (near)	do									.14						.06												.14	.95	.07	.41		1.77
plar Bluff ‖	Black				.02						.15			T		T.	.12								.04		.03	.09	T.	1.48	.26		2.19
iro, Ill.***	Mississippi			.04	.06				1.11	.47	.01		T.	T.		.46								.31		T.		.04	.25	.46	1.57		4.78
zark Plateau.																																	
cadia	St. Francis			.01	T.				T.		.23					.22		T								.05	T.	.02	.03	1.16	.03		1.75
lington‖	Gasconade						T.				.10															T		T.	1.50	.25	T.		1.85
chtree	Black									.58						.27										.16		.15	.12	.75	.42		2.45
livar	Osage		.07	.49			.13			.93																.16		.10	3.05	.72			5.65
ssville	White							.11		.50																.75	.12			.50			1.98
an	Neosho		T					.28		.46						.26									T.	1.26		.08		.50			2.84
lon	Osage			.65			.31			.65													.05			.29		.39	1.78	.18			4.33
mington	St. Francis			.02				T.		T.						.36	T.	.02					T			.03		.09	.68	.09	.21		1.50
no	Meramec			.07				T.	.17	.34																.12		.14	.65				1.49
odland	Black									.26						.13												.10	.78	.10	.11		1.48
llister	White										1.10			.85				.65						.66				1.10					4.36
uston	Gasconade			T.				T.		.32						.17										.23		T.	.72	.33			1.77
shkonong	Black								.16	.47				T.		.61								.09	T.	.43		.13	T.	1.47	.58		3.94
banon ‖	Osage			.10			.06		T		.60					.10										.07	.13	.04	1.08	.87			3.05
ckwood	do		T	.62			.03		.05	.62				T.											.18	.23		.14	1.09	.95			3.91
untain Grove‖	White			.04	T.					.45						.15										T.	.20	T.	.08	.58	.77		2.27
osho	Neosho		T	.10				.41		.34						.06									.08	.55	.11	.09	.02	.34	T.		2.10
lla ‖	Meramec			T.	.11		T	.08	T	.41	.42					.12		T.								.10	.06	.01	.66	.61	.06		2.64
ringfield ***	White		.06	.07			.01			.62					.15	.01									.11	.26		.09	1.55	.62			3.55
elville‖	Meramec				.05		.12				.32					.15												.10	.72	.58			2.04
scumbia‖	Osage			.55			.38		.02		.37							T.								.28		.08	1.45	.42	.09		3.64
Southwest Plain.																																	
moret	Osage		.43	.07				.53	T.	.82														T.	T.	.42	T.	.24	.71	.08	.01		3.31
pleton City	do			.62				.58		.71														T		.34		.17	1.35	.20			3.97
inton	do		.45	.10			.52	.23	.60																	.30	.25	1.08	.19				3.72
rrisonville‖	do			.25	.05			.60		.20														.09	T.		.23	.20	.65	.04			2.31
mar ‖	Neosho			.60				.15		T	1.00															.24	.23	T.	1.10	1.84			5.16
monte	Missouri		.25	.15						.72					T.	T							T.			.40			.20				1.72
rshall	do		.22	.05			T.	.21		.55				T.	T.	T.	T.						.23	.18				.13	T.	.42			1.99
vada	Osage		.55	.14				.55	T	1.11																.40	T.	.10	2.61	.25			5.71
ceola ‖	do			.56	.07					.31	.13															.26	.03		1.38	1.23			3.97
rrensburg	Missouri						.26	.38		T.														T.		.54		.38	.46	.22			2.24
rsaw‖	Osage		.11	.89			.05	.09		.65																.34	.12	.30	1.50	.66			4.71
averly ‖	Missouri			.38	T.			.44	1.08	.04	.48							T.					.18	.10					.04	.09	.07		2.90
Northwest Plateau.																																	
alon	Grand		.40					.70		.50												.25						.45		.25	.05		2.60
thany	do		.66	.15				.35		1.56	T.				.40	.02	T					.03	T.	.25				.30	T.	1.30	.13		5.15
illicothe ‖	do																																....
nception	Missouri		.60	.08				.88	T.	1.16	T.	T.	T.		.26		T.					.11	T.	.22			T.	.41	T.	1.00	.04		4.76
llatin	Grand		.49					.30		1.61			T.		.16		.05					.08	T.					.15		.93	.06		3.83
ant City	do		.63	.10				.84	T.	1.40	.12	T.	T.	T.	.56	T.	T.			T.		T.	.32					.76	.95		.04		5.72
nsas City***	Missouri		.42	T			T.	.96	.32	.73	T.						T					T.		.07	.20	.39	T.	.12	.04	.24			3.49
dder ‖	Grand		.03	.40				.35		.90	.70				.04		.02						.22	.01				.02	.25	.86			3.80
xington ‖	Missouri			.26			.04	.36	.06	.08	.51													.09		.10			.08	.13	.43		2.14
berty	do		.44	.06				.95		1.40							T.									.67		.17	T.	.50			4.19
ryville‖	do			.40				.54	.02	.89	.59	.04			.40	.03	T.						.05	.47				.33	.35	.52	.04		4.67
egon	do		.60	.06				.57		1.36	T.				.29		T.					.04		T.				.37		.80	.05		4.14
Joseph***	do		.55	.02				.57	.72	.88	T.			T.	T.		T					.12					T	.07	.17	.45	T.		3.55
rkio	do																																....
enton	Grand		.49					.24	.48	.59	.03		T.	.30	.04	.02	.01					.09		.39				.24	T.	.88	T.		3.80

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the e of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch

Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. **Precipitation in the next following measurement. ‡ Separate tes of fall not recorded

Daily temperatures for April, 1919.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	56	50	62	65	72	82	69	57	72	42	57	66	67	71	51	44	61	70	79	75	78	83	79	54	57	61	56	62	68	60	....	64.3
	Minimum	24	28	43	44	43	48	56	40	39	38	37	37	39	55	48	36	36	32	35	52	47	41	57	41	53	32	35	53	50	50	....	42.0
Columbia	Maximum	53	55	60	63	78	81	73	64	72	46	56	61	68	71	58	42	59	69	79	72	79	82	78	53	54	62	51	61	70	62	....	61.7
	Minimum	27	38	44	38	48	59	57	44	46	38	38	39	44	53	42	36	37	33	54	57	49	60	53	42	38	36	46	51	51	51	....	45.2
Fayette	Maximum	58	47	60	60	73	78	70	58	62	54	54	61	65	72	54	40	56	53	61	64	70	53	38	56	55	58	52	57	62	58	....	58.4
	Minimum	26	35	45	33	43	55	52	38	48	42	36	38	40	53	37	31	33	28	35	40	52	38	31	35	42	35	45	51	48	48	....	40.7
Hannibal	Maximum	53	56	61	64	77	81	74	67	72	54	50	69	68	73	59	42	58	65	77	75	74	77	78	72	53	60	55	57	56	65	....	65.5
	Minimum	28	36	43	38	51	55	56	46	50	39	49	31	43	49	42	39	38	33	51	53	46	58	62	46	38	31	41	54	48	52	....	44.0
Jefferson City §§	Maximum	55	55	58	64	79	80	73	70	70	45	60	66	70	78	57	44	60	69	77	75	81	84	79	56	76	61	59	62	78	68	....	66.0
	Minimum	28	29	37	40	40	48	57	44	44	38	38	38	40	45	51	37	36	31	35	54	50	50	51	44	35	34	27	46	53	53	....	42.6
Kirksville	Maximum	54	49	58	63	71	77	73	62	69	65	49	62	66	69	56	45	57	64	76	71	72	77	76	57	53	60	57	57	51	57	....	62.3
	Minimum	27	36	43	40	45	48	55	38	43	36	36	34	40	47	43	33	33	32	45	51	43	45	56	34	35	30	46	49	43	48	....	41.6
Louisiana	Maximum	53	50	58	63	70	82	80	68	72	70	52	62	68	70	67	65	56	64	71	73	70	78	75	67	55	60	55	57	58	63	....	65.2
	Minimum	24	30	30	34	42	54	60	46	52	42	40	32	35	48	52	38	38	30	40	47	41	58	60	41	37	25	41	50	47	52	....	42.4
Macon §§	Maximum	56	57	64	65	76	79	70	60	71	40	50	65	69	68	56	41	59	67	78	75	78	81	79	55	58	63	55	60	53	60	....	63.9
	Minimum	27	30	38	41	41	46	56	40	45	37	36	34	37	45	46	34	33	33	40	56	43	45	57	38	37	30	36	46	45	46	....	41.1
Mexico §§	Maximum	59	57	60	65	80	83	75	70	71	52	58	66	70	77	60	60	62	70	80	75	80	85	[illegible]	63	65	66	....	60	69	65	....	a68.4
	Minimum	24	24	35	36	40	46	51	40	41	38	35	37	38	44	47	35	31	29	33	50	43	43	49	43	37	27	....	28	33	48	....	a38.1
Oakfield	Maximum	62	60	59	61	79	82	75	74	73	67	62	67	70	83	71	49	61	69	77	80	79	82	82	66	55	63	56	61	68	66	....	68.8
	Minimum	27	35	45	48	45	55	61	51	57	39	40	39	45	45	48	36	35	36	50	62	46	57	65	45	35	35	43	51	53	53	....	46.0
St. Catharine	Maximum	53	48	60	62	73	77	76	59	68	67	40	60	67	66	57	45	57	64	75	71	75	81	77	57	57	59	57	59	57	50	....	62.1
	Minimum	26	38	43	36	45	51	51	38	43	36	34	33	38	48	42	33	32	29	50	51	45	56	55	37	36	30	45	50	43	50	....	41.7
St. Louis (1)	Maximum	50	60	57	63	77	84	75	75	74	67	60	66	68	82	69	47	60	67	71	76	78	82	79	55	54	62	55	62	66	64	....	66.8
	Minimum	32	40	47	49	48	58	63	59	61	42	43	45	49	51	47	39	39	45	48	51	48	62	55	49	57	41	45	53	51	55	....	48.2
Unionville	Maximum	55	53	52	63	72	77	74	57	70	70	46	63	66	58	52	48	56	65	76	72	74	76	74	58	55	60	56	58	55	54	....	62.1
	Minimum	27	38	44	48	44	47	51	37	42	36	35	33	42	47	44	32	33	32	50	52	45	55	57	55	33	28	46	51	49	48	....	41.5
Warrenton §§	Maximum	58	60	64	61	78	82	75	75	71	43	64	65	71	88	58	42	60	71	76	75	79	84	80	55	56	64	55	62	67	65	....	66.6
	Minimum	26	28	34	40	44	47	58	47	48	38	38	38	41	49	51	36	35	35	39	52	45	49	50	43	36	33	38	43	52	52	....	42.5
Southeast Lowlands.																																	
Caruthersville	Maximum	66	70	72	71	80	83	83	86	76	66	71	76	75	87	76	67	65	77	80	84	90	92	90	82	60	69	66	84	80	70	....	76.3
	Minimum	[illegible]	33	47	51	55	57	63	61	64	49	42	46	54	56	59	46	40	37	55	52	55	59	55	55	38	36	46	55	62	58	....	50.8
Doniphan	Maximum	58	59	67	69	76	76	70	80	75	66	67	77	68	80	71	59	64	72	76	80	82	87	88	73	59	67	60	71	71	71	....	71.2
	Minimum	28	29	47	46	50	57	61	55	69	44	35	40	52	52	58	43	40	33	39	51	51	54	56	51	34	29	41	49	63	58	....	47.3
Jackson	Maximum	52	60	70	72	77	80	77	89	78	78	68	74	72	92	82	70	62	70	82	82	82	88	90	94	59	68	60	75	74	69	....	74.6
	Minimum	25	26	47	49	41	54	59	58	65	48	43	37	43	54	59	42	37	29	36	53	58	60	55	49	37	26	33	49	58	57	....	46.2
Marble Hill	Maximum	51	58	68	70	82	81	71	90	89	58	94	80	76	83	93	78	63	69	73	90	94	92	87	88	61	53	70	75	73	64	....	77.3
	Minimum	27	27	48	49	40	45	56	57	62	58	41	40	39	50	58	36	41	33	40	50	53	61	63	51	36	30	35	27	58	58	....	40.1
Poplar Bluff	Maximum	52	61	70	71	79	79	76	82	74	66	69	79	70	84	75	62	65	77	79	82	85	89	85	85	62	67	61	76	71	64	....	73.6
	Minimum	25	30	49	49	44	57	62	55	61	46	41	43	53	52	59	43	41	34	39	52	55	59	59	32	36	32	40	51	59	57	....	47.2
Ozark Plateau.																																	
Arcadia §§	Maximum	57	63	61	69	76	78	72	87	71	50	65	69	69	82	67	45	62	71	71	82	80	87	85	64	54	61	59	68	66	62	....	68.4
	Minimum	22	24	28	48	37	46	55	47	47	43	41	37	38	45	50	49	38	29	31	43	49	51	57	48	34	27	29	43	53	[illegible]	....	41.3
Birchtree	Maximum	56	62	60	68	76	77	68	80	75	64	65	74	67	82	73	54	61	79	80	83	82	86	86	78	57	62	54	71	69	69	....	70.3
	Minimum	24	32	40	42	47	51	55	59	56	58	35	43	50	52	54	38	50	45	47	50	52	57	57	48	32	33	42	51	51	56	....	45.7
Cassville	Maximum	62	57	62	69	79	81	74	76	71	58	71	72	78	78	65	52	60	78	75	82	86	85	85	76	56	56	68	75	76	71	....	71.2
	Minimum	33	35	45	38	45	58	57	35	57	34	31	39	50	58	43	34	34	26	50	57	52	49	51	50	39	22	46	56	58	51	....	41.4
Eldon	Maximum	48	54	60	65	77	84	71	75	70	56	52	60	70	75	65	46	56	70	77	67	84	85	80	56	53	59	59	59	75	67	....	66.2
	Minimum	22	31	42	37	40	50	38	51	49	35	30	46	41	43	43	30	35	29	42	56	46	54	40	39	27	26	42	42	54	44	....	40.1
Farmington	Maximum	57	63	60	70	79	83	83	81	73	66	66	72	74	84	71	57	60	80	76	81	81	81	84	76	56	69	62	70	67	65	....	71.7
	Minimum	26	32	48	48	45	53	52	53	62	43	41	42	46	50	55	58	35	31	46	47	49	46	62	46	36	33	43	42	55	45	....	45.0
Gano	Maximum	65	61	57	64	77	75	78	79	71	65	63	69	70	83	73	48	59	70	75	80	82	81	82	72	55	61	60	70	70	65	....	69.6
	Minimum	22	32	43	41	41	55	56	47	57	36	34	49	45	52	47	35	34	32	49	51	50	60	58	41	31	28	42	50	54	51	....	41.3
Hollister	Maximum	45	50	58	66	72	70	74	76	74	45	46	58	51	55	57	58	59	62	66	64	61	62	56	68	61	66	68	70	88	66	....	63.2
	Minimum	41	42	40	43	44	46	48	54	45	32	36	48	46	45	47	48	46	48	49	50	50	52	45	58	46	58	56	58	62	40	....	47.6
Koshkonong	Maximum	57	55	59	70	76	77	72	82	76	67	66	77	67	82	75	55	61	71	75	81	85	87	87	75	59	63	55	75	72	68	....	70.7
	Minimum	28	33	41	46	48	55	59	51	58	39	38	47	53	54	51	39	38	41	48	53	56	56	60	51	33	32	41	52	58	56	....	47.4
Lebanon §§	Maximum	58	57	59	68	78	70	74	75	69	46	65	70	70	80	50	46	65	71	75	84	84	86	84	62	51	63	62	71	76	62	....	67.8
	Minimum	28	28	41	38	38	48	60	39	39	34	33	33	35	55	50	35	34	29	31	56	50	50	59	45	35	28	28	45	55	50	....	40.8
Mountain Grove §§	Maximum	57	61	56	67	78	75	73	67	77	46	64	67	65	82	57	47	57	68	82	67	80	85	83	64	45	59	57	67	71	62	....	66.2
	Minimum	29	30	35	41	42	45	46	46	35	45	54	36	41	48	50	36	33	33	35	54	42	51	56	45	37	28	29	42	58	51	....	41.1
Neosho	Maximum	62	59	62	70	75	79	82	69	74	68	70	75	80	78	70	55	67	73	79	80	81	85	85	79	56	57	68	77	75	71	....	72.0
	Minimum	29	39	45	34	46	45	57	58	53	34	30	34	50	61	41	34	33	25	53	57	51	52	58	48	40	32	46	58	58	49	....	41.9
Rolla	Maximum	57	59	57	68	78	79	74	75	71	59	62	70	70	83	71	55	58	[illegible]	76	79	81	87	81	79	71	66	64	67	77	71	....	71.0
	Minimum	25	33	45	43	44	53	59	45	59	37	35	32	46	54	47	37	35	31	51	58	51	59	62	44	34	31	44	53	56	52	....	45.6
Springfield	Maximum	55	53	58	63	77	80	70	75	71	41	64	66	67	71	56	45	56	70	76	77	83	84	80	60	49	57	65	71	74	66	....	66.1
	Minimum	30	41	46	45	50	61	55	45	41	34	35	48	51	56	39	34	31	39	51	58	62	58	60	48	33	32	45	56	58	53	....	46.8
Southwest Plain.																																	
Amoret	Maximum	60	54	62	66	76	82	73	60	72	51	65	68	69	70	56	50	61	72	71	73	82	85	82	65	59	55	58	67	69	66	....	66.4
	Minimum	28	42	44	35	46	55	54	35	42	33	29	38	49	54	42	31	31	32	50	52	55	59	58	45	36	31	45	51	52	48	....	43.3
Appleton City	Maximum	59	57	64	65	75	82	75	61	71	55	61	68	69	72	60	50	61	70	78	73	82	83	80	78	54	60	58	68	72	66	....	68.
	Minimum	30	45	45	38	48	58	53	39	48	36	32	42	47	57	44	31	35	33	53	57	63	60	61	45	37	32	48	56	58	50	....	46.1
Clinton	Maximum	61	55	61	66	76	84	79	68	76	63	71	68	72	71	67	48	62	71	80	78	80	87	85	68	61	63	60	68	75	71	....	70.2
	Minimum	27	42	45	39	48	56	51	38	48	36	32	38	45	45	43	35	31	32	32	37	32	36	53	42	30	31	47	55	57	49	....	41.1
Harrisonville §§	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lamar §§	Maximum	60	57	65	68	77	83	69	64	75	49	69	68	73	73	52	52	63	75	80	80	86	87	85	58	46	54	63	77	72	61	....	68.
	Minimum	31	41	42	39	48	59	59	39	41	35	32	41	50	57	41	54	32	31	51	55	49	57	63	45	46	33	44	58	57	50	....	46.
Lamonte	Maximum	57	55	61	64	....	82	76	60	75	57	59	66	70	72	59	45	62	66	78	70	82	73	75	53	55	61	59	60	60	59	....	a64.7
	Minimum	25	40	46	36	....	52	56	37	46	36	31	36	42	45	36	34	38	31	51	57	50	55	55	41	35	50	43	47	45	48	....	a42.
Marshall	Maximum	56	52	64	64	76	82	79	65	72	70	57	65	65	70	65	46	60	70	78	76	78	84	83	70	55	62	59	64	71	68	....	67.
	Minimum	26	55	45	41	45	55	55	37	45	37	32	38	48	47	41	34	33	29	55	58	57	67	61	40	38	30	47	53	51	48	....	44.
Warrensburg	Maximum	68	60	60	68	78	81	76	67	76	52	61	69	75	72	58	52	68	74	80	86	81	83	80	51	52	62	58	62	77	62	....	68.
	Minimum	27	38	40	40	50	57	56	52	52	38	32	40	52	54	43	34	34	36	54	61	64	68	41	38	36	34	47	54	55	52	....	46.
Warsaw	Maximum	66	58	63	67	79	81	76	67	75	55	64	71	72	78	6	46	62	72	81	75	83	88	84	76	51	64	69	70	78	68	....	70.
	Minimum	21	36	46	36	41	52	58	38	50	38	33	35	42	56	41	37	36	27	52	61	55	52	62	43	36	28	47	55	57	48	....	44.
Northwest Plateau.																																	
Chillicothe §§	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Grant City	Maximum	57	47	55	64	72	76	71	57	55	51	59	63	66	57	50	42	57	66	73	73	68	76	72	54	52	56	54	55	54	57	....	60.
	Minimum	28	37	40	38	47	46	53	34	38	35	35	35	42	47	39	33	34	31	52	49	47	53	54	33	36	31	45	48	44	49	....	41.
Kansas City	Maximum	55	49	58	61	74	80	71	51	73	43	59	68	67	69	51	45	69	72	77	70	82	85	77	50	52	55	57	60	69	57	....	63.
	Minimum	34	43	48	41	53	57	50	39	38	36	35	46	50	51	38	31	38	43	56	53	54	63	50	38	36	39	46	51	53	50	....	45.
Kidder §§	Maximum	55	51	56	62	71	76	65	51	71	39	52	63	65	67	48	42	58	67	76	71	75	81	75	45	53	58	53	60	59	49	....	60.
	Minimum	28	40	40	41	41	43	55	35	42	36	34	35	37	52	42	33	32	35	50	52	47	46	58	37	38	31	45	50	45	49	....	41.
Lexington §§	Maximum	57	47	63	67	78	82	68	56	78	41	60	67	70	71	57	48	60	70	80	73	80	85	82	52	60	60	55	62	70	58	....	65.
	Minimum	27	43	45	45	50	51	56	40	44	37	33	40	45	55	47	35	34	36	54	51	51	58	62	42	38	33	48	48	54	53	....	45.
Maryville §§	Maximum	53	53	53	62	70	77	62	48	48	39	51	62	65	56	43	43	57	68	77	70	71	78	68	51	53	51	52	56	54	57	....	58.
	Minimum	27	27	38	31	34	46	46	32	32	32	32	32	36	40	43	29	30	30	34	46	50	48	53	31	31	33	33	40	45	44	....	36.
Oregon	Maximum	55	55	54	62	72	77	73	51	53	49	51	62	67	61	51	45	57	70	78	70	74	79	74	53	53	55	54	58	58	59	....	61.
	Minimum	28	38	39	35	49	49	48	32	36	32	32	37	44	47	36	29	32	35	51	47	50	55	50	32	37	33	42	46	45	45	....	40.
St. Joseph	Maximum	55	51	55	64	72	80	72	48	62	41	55	65	65	67	51	44	59	71	80	74	77	83	74	49	55	54	54	60	63	57	....	62
	Minimum	33	41	44	39	54	54	45	37	41	35	36	42	56	51	37	33	37	39	59	52	53	59	48	37	41	37	47	51	49	48	....	44
Trenton	Maximum	52	46	56	62	72	75	72	60	62	60	50	60	65	63	58	44	55	64	76	73	74	79	73	56	54	61	57	60	56	60	....	61
	Minimum	30	39	45	47	45	50	55	38	36	37	35	35	44	50	40	34	35	35	39	52	49	56	56	36	35	34	37	50	45	52	....	42

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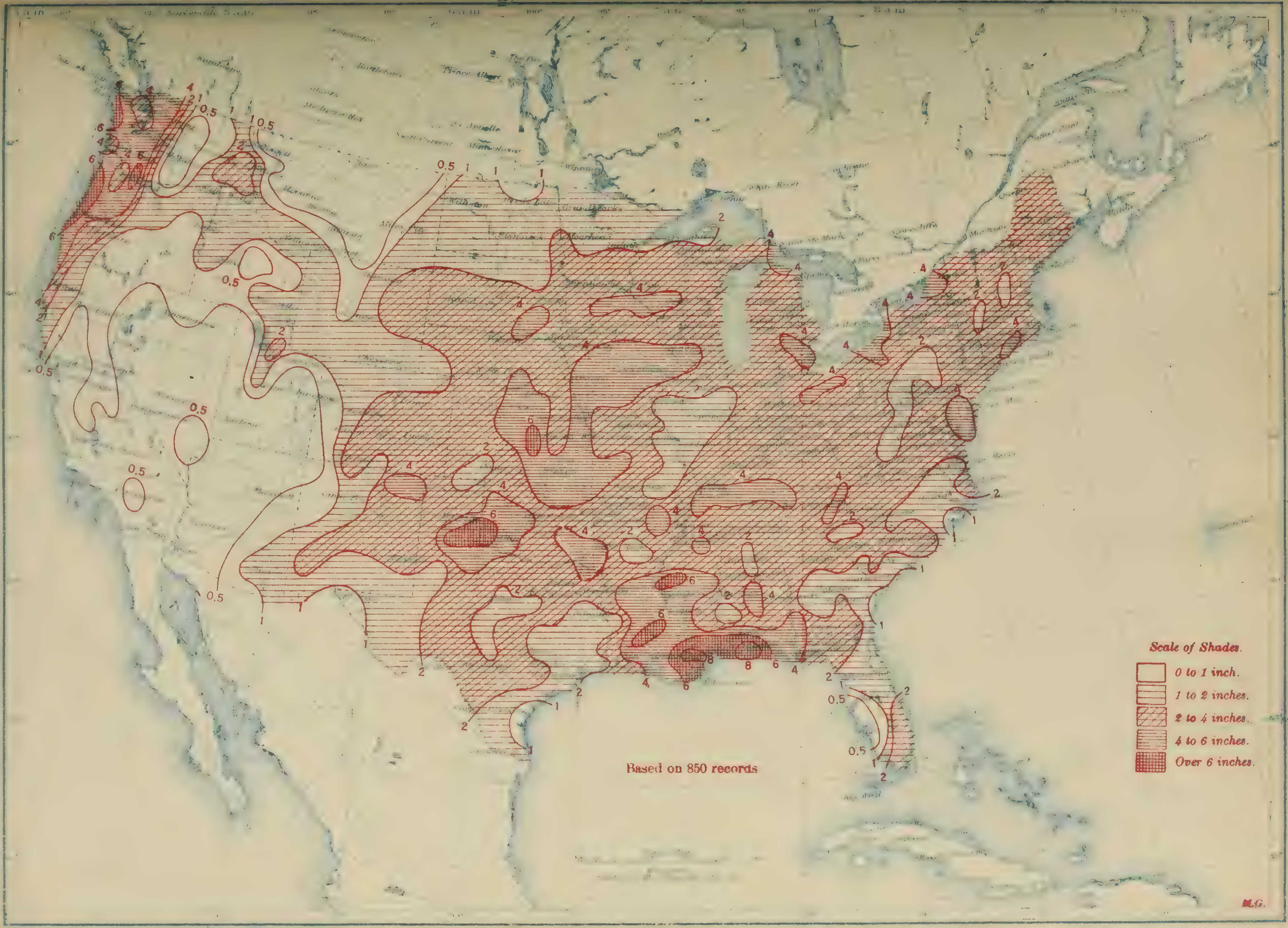
a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning: the maximum temperature then read is charged the preceding day, on which it almost always occurs.


Scale of Shades.
0 to 1 inch.
1 to 2 inches.
2 to 4 inches.
4 to 6 inches.
Over 6 inches.
Based on 850 records
M.G.

Daily Evaporation (inches) and Wind Movement (miles) for April, 1919, at Columbia, Mo.

Date.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mo.
Columbia*	Evaporation	.183	.099	.008	.046	.139	.165	.170	.206	.166	.094	.042	.101	.113	.162	.106	.018	.044	.159	.170	.241	.185	.208	.188	.260	.176	.068	.144	.061	.062	.033	...	3.781
	Wind movement	57	38	58	34	32	48	65	69	81	103	92	43	28	56	59	87	91	58	37	71	56	37	32	71	78	44	33	18	57	38	....	1,671
University of Mo.†	Evaporation	.103	.000	.098	.091	.188	.216	.251	.239	.200	.119	.082	.161	.209	.180	.143	.094	.140	.182	.327	.221	.188	.191	.312	.290	.217	.217	.085	.026	.191	.089	....	5.056
	Wind movement	42	69	97	42	85	78	181	106	190	239	....	191	57	156	153	229	186	47	130	103	42	126	125	121	159	120	45	49	160	81	....	3,109

*Observations taken at 7.45 a.m., Summer Time. †Observations taken at 5.30 p. m., Summer Time. Both stations are located on the University grounds; one on the West Campus and the other about one mile southeast on the Experiment Farm. To prevent confusion of records the former will be known as "Columbia" and the latter as "University of Missouri." The equipment is the same in both cases (see Annual Summary, 1918); but the Experiment Farm station has a freer exposure to sun and wind, comparing favorably with sea horizon.

HAIL STORMS.

April 21st—Doniphan County, Kans., and Buchanan County, Missouri.

A hail storm of marked severity and unusually wide extent had its origin about two miles west of Bendena, Kans., at approximately 7 p. m. It moved a little south of east, Brenner, Kansas, being near the center of the path of greatest destruction, crossed the Missouri River in the vicinity of Halls, Mo., and continued its easterly course across Buchanan County to the vicinity of Gower, Mo. The width of the destructive part of the storm varied from one to three miles and its total length was 35 miles. On either side of the path of greatest destruction, light to moderate hail was noted for two or three miles. While difficulty was experienced in securing accurate information as to the duration of the fall of hail at any given point, it is believed that it continued for not less than five minutes.

Damage done in the middle part of the path of the storm by hail-stones, which were as large as walnuts, and in some cases even larger, was very severe, especially to orchards, wheat and alfalfa. Numerous fine apple orchards located in or near the center of the path of the storm were seriously damaged. In some cases as high as 75 per cent of this year's apple crop is reported destroyed, but the greatest damage, orchardists say, is to the trees, both young stock and mature trees, by the bruises and abrasions of bark and fruit spurs. The trees were cut and gashed as if by a bombardment of shrapnel, making them a prey to fungus diseases as well as weakening each tree by loss of vitality expended in healing wounds. The estimated loss in the Kenmoor apple orchard of 200 acres, which is about 12 miles south of St. Joseph, Mo., is $15,000 to $20,000. Trees were in full bloom.

Much of the land over which the storm passed is in wheat, and prospects prior to the storm were for a splendid yield; the growth was rank and much of the wheat was knee high and jointed. Some of the wheat was broken down and some pounded into the ground, the damage in many fields exceeding fifty per cent. The first crop of alfalfa on many farms will be a total loss.

Roofs and windows on the north and west sides of buildings suffered considerable damage and in a few instances young pigs and lambs were killed. At Bendena, a store building was unroofed by the wind.

Drifts of hail that piled up on the north side of buildings did not all melt until five days after the storm, although the maximum temperature on the day following was above 80° and readings above 50° occurred on each of the other four days.

In some recently plowed fields the hail fell with such force as to make pits like miniature shell craters.

A heavy dashing rain accompanied the hail storm and caused considerable damage by washing. W. S. Belden, Meteorologist.

April 23d—Butler and Stoddard Counties.

About 5.30 p. m. a severe hail storm, attended by damaging winds, caused considerable loss from Fisk, east-central Butler County, to near Marco, a village 23 miles nearly due east, in Stoddard County. The exact area of country affected cannot be determined, damage seemingly occurring in several narrow strips of varying width and length. Damage was chiefly to growing crops; wheat, the principal crop damaged, was from knee high to waist high, and many large fields were seriously damaged. Alfalfa and gardens were beaten into the ground, and the fruit crop on some farms will be a total loss. Two men were seriously injured in runaways, caused by their teams becoming unmanageable from pelting hail stones and high wind. At Ash Hill a small church was blown down, with a loss of about $900. Many fruit and shade trees were uprooted in the wind.

April 29th—Boone and Callaway Counties.

The most severe hail storm for many years, according to old residents, visited west-central Boone County between Rocheport and Columbia, and in the vicinity of Stephens, Callaway County. Light hail occurred generally over intervening territory during the passage of the storm, which was 3.15 p.m. at Rocheport and 4.10 p. m. at Stephens.

Between Rocheport and Columbia the area of serious damage was about three miles long and two miles wide. The duration of the fall of hail was about 12 minutes, though several reports indicate falls of nearly 30 minutes. At the end of the storm, hail lay on the ground from one to three inches deep, and in low places, where washed by the heavy accompanying rain, the depth was from six inches to three feet. Hail was in evidence on May 3d, five days later in low places in the wheat fields and other sheltered places. The hail stones ranged from the size of small marbles to about one inch in diameter. The easterly limit of the damage was about seven and one-half miles west of Columbia.

At Stephens, the area of severe damage was about one-half mile in width and a little over two miles long. Where the damage was worst, hail lay "shoe-top deep" after the storm passed; large stones of irregular dimensions and shapes were reported. The hail fall lasted about twelve to fifteen minutes.

Damage in both localities was severe, but confined generally to crops. Wheat, oats, gardens and meadows were beaten until practically all growth prior to the time of the storm was ruined. It is doubted that wheat will recover. All fruit trees were stripped, in fact most trees were left with practically bare limbs. No damage to buildings occurred, but window panes on the west sides of nearly every home in the area affected were broken. A few young pigs and quite a few young chickens were killed, although the pigs may have drowned. Both areas were well developed farming sections. Rough estimates of crop loss vary from $20,000 to $25,000. O. R. R.

OBSERVERS' REMARKS.

Brunswick--On the 18th, and 26th ice formed in low places, but n special damage resulted.

Appleton City--The month was very favorable for farm work. Rainfal was sufficient for present needs. Wheat, oats, and fruit in good condition. Corn planting progressing.

Lamonte--Very high wind on 9th, 10th, and 19th. Snow flurries o 15th, and 26th. Light frost on 18th.

St. Catharine--April has been windy and cool. Grass looks fine an wheat is excellent; oats and grass are beginning to grow. The mont ended wet and foggy.

Nevada--There was frost on the 18th, and 26th but did little damage

Warrenton--Cool cloudy weather has prevailed with only a few clea and warm days during the last two weeks.

Warrensburg--Light frost on the mornings of the 25th, and 26th bu no damage.

Avalon--Wheat, meadows, and pastures making fine growth. N peach blossoms but cherries and plums are safe. Not much corn planted too cool and wet.

Warsaw--The ground was getting dry but a good rain set in on th 25th and continued for several days supplying needed moisture.

Grant City--Most of the month was too wet for farm work. No plowing for corn. Wheat, rye, and pastures making good growth. Whea getting rank; may be more straw than heads.

Kidder--The past month has been cool and cloudy most of the time Ground too wet and cold for vegetation except grass and wheat, whic are growing fast.

Doniphan--Severe frost on 26th but fruit not killed.

Birchtree--Light snow fell for about two hours on the 25th. Frost o the 26th, destroying vegetation in some localities.

Farmington--Most of the month was dry but the rains of the last fou days did much good. Some early garden truck was killed by frost of th 26th, but not much harm done; fruit prospects good generally.

Houston--The month ended with a good rain, which revived vegetatio Oats and meadows are short but a few days of warm sunshine will brin them out.

Lebanon--We had heavy frosts several times during the month bu very little damage resulted. Wheat is in fine condition and is puttin out stalk.

Lockwood--The month has been cool and wet. Corn planting delaye ground in bad working condition.

.05
MS

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

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JUL 11

CLIMATOLOGICAL DATA

MISSOURI SECTION

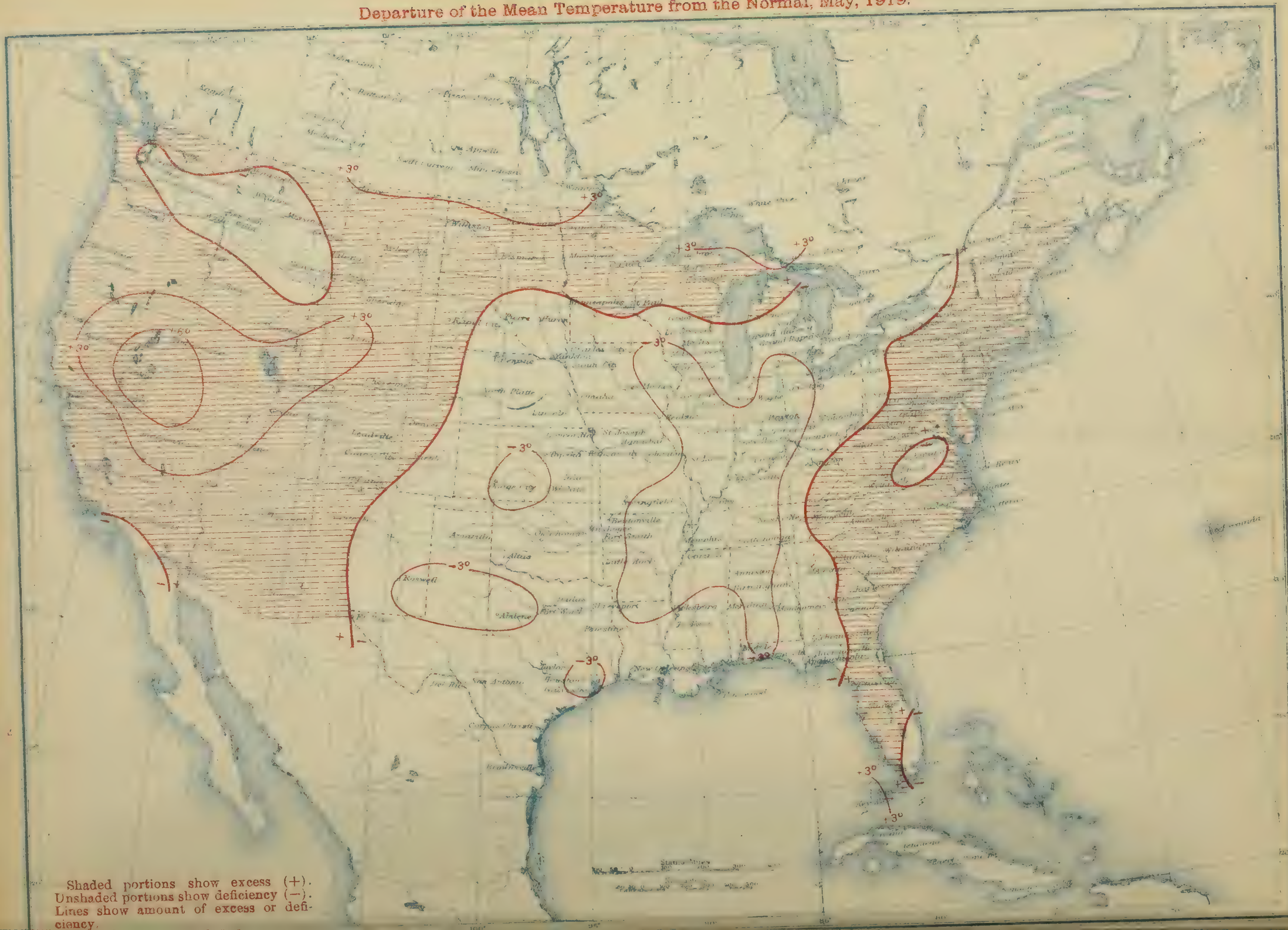
IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

MAY, 1919

BY
GEORGE REEDER
METEOROLOGIST

COLUMBIA, MO.,
WEATHER BUREAU OFFICE
JULY 2, 1919.

Departure of the Mean Temperature from the Normal, May, 1919.



Shaded portions show excess (+).
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXIII. Columbia, Mo., May, 1919. No. 5

GENERAL SUMMARY.

May, 1919, was cool, cloudy, and wet, though there were only a few days on which the sun did not shine. It is the first month thus far of the year to supply surplus moisture to the soil, and also the first with temperatures less than normal. There were no severe storms, though local hail damage occurred at a few places, and a local wind, having some characteristics of the tornado, traveled northeast across Gentry and Harrison counties. For detail report on storms see page 40.

Farm work was delayed, especially during the latter half of the month, when rain fell almost every day. There was rather too much rain for the wheat crop, though at the close of the month the condition was still very good. The first hay crop has been large and of good quality, but harvested under difficulties, considerably damaged by rains. Live stock has reached excellent condition.

TEMPERATURE.

The monthly mean for the State, as determined from the records of 65 stations, was 62.0°. The mean departure from the normal for 63 stations having 10 or more years' record was minus 2.5°. The month was about 6° cooler than the same month in 1918, and about 3° warmer than May, 1917. All divisions show quite noticeable temperature deficiency, but the coolest part of the State was from about Macon and Marion counties to Shannon and Bollinger, and from Laclede and Pettis counties to the Mississippi River, the departure from the normal ranging 3.5° to 7.7°, the larger values occurring in the Gasconade and the lower part of the Osage Valley. The last three days of the month were the warmest, a few stations at widely separated points experiencing a maximum of 90° or higher; there were no frosts or freezing temperatures.

PRECIPITATION.

The average precipitation for the State, 83 stations reporting, was 5.80 inches. The departure from the normal for 74 stations having 10 or more years' record was plus 0.87 inch. In the northeast plain the rainfall was 1.54 inches greater than normal; in the northwest plateau slightly below normal, and in other divisions moderately above normal. The precipitation was unevenly distributed. The wettest parts of the State, where the monthly amounts varied between 7 and 9 inches, included that part of the Ozarks from the Osage River south to the White River, and eastward along the northern slope including the Gasconade, the Meramec, and the lower Missouri River, and reaching to Audrain County; and in the northern border counties from Nodaway to Knox and Scotland counties. Except on the first two days, and from the 10th to 14th, inclusive, showers were more or less general and of daily occurrence. About half the stations recorded rain on 15 days, and a few as many as 20 days. The greatest amount in any 24 consecutive hours was 4.50 inches, at Trenton, Grundy County, on the 3d. There was some flood damage in the Grand, Chariton, Osage, Neosho and Black river bottoms.

WIND.

The prevailing winds were from the northeast. The average wind movement was 6,584 miles, based upon the records of 8 well located stations equipped with anemometers. There were no strong or damaging winds.

SUNSHINE AND CLOUDINESS.

The average number of clear days for the State was 10, or about 4 less than normal. The average number of hours of sunshine was 250, or about 56 per cent of the possible, and about 7 per cent below normal. This May received about 13 per cent less sunshine than May, 1918.

MISCELLANEOUS PHENOMENA.

Fogs, dense--20th, 26th, and 27th. Hail--3d, 4th, and 23d. Halos, solar--3d, 7th, 12th, 17th, 23d, 25th, 26th, 28th, 29th, and 3th. Lunar--6th, and 11th.

Thunderstorms (local)--5th, 7th, 18th, 20th, 22d, 23d, 26th to 29th, inclusive. More or less general--2d, 3d, 4th, 6th, 15th, 16th, and 19th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Max. velocity. Direction.	Max. velocity. Date.
Columbia	29.90	85	......	235	53	5,450	7.3	26	nw.	4
Hannibal	29.90	82	......	......	......	6,099	8.2	32	sw.	3
Kansas City	29.91	78	58	279	63	8,578	11.5	39	n.	19
St. Joseph	29.91	79	57	270	60	5,843	7.9	34	nw	6
St. Louis	29.90	80	64	174	39	8,665	11.6	40	sw.	3
Springfield	29.90	88	72	258	59	7,186	9.7	31	nw.	19
Cairo, Ill	29.89	85	70	......	......	5,945	8.0	30	s.	3
Keokuk, Iowa	29.94	79	66	281	64	4,903	6.6	25	w.	6

COMPARATIVE DATA FOR MAY.

Year.	Temperature.				Precipitation.				Number of Days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	62.1	−2.3	93	30	5.35	+0.58	......	0	5	....	....	....
1889	63.5	−0.9	96	28	6.56	+1.79	......	0	5	....	....	....
1890	62.8	−1.6	96	32	3.47	−1.30	......	0	6	....	....	....
1891	61.5	−2.9	97	28	4.26	−0.51	......	0	8	....	....	....
1892	60.7	−3.7	91	28	7.80	+3.03	3.90	0	17	5	9	17
1893	61.8	−2.6	94	30	5.89	+1.12	5.83	0	10	11	11	9
1894	63.7	−0.7	95	22	3.99	−0.78	4.20	0	8	13	11	7
1895	64.6	+0.2	103	28	4.08	−0.69	3.43	0	9	13	12	6
1896	70.1	+5.7	96	32	9.09	+4.32	4.66	0	12	12	12	7
1897	62.4	−2.0	93	28	2.56	−2.21	3.82	0	7	16	11	4
1898	65.2	+0.8	97	31	7.90	+3.13	5.50	0	14	12	10	9
1899	66.9	+2.5	96	34	6.26	+1.49	5.28	0	12	10	13	8
1900	66.3	+1.9	97	29	3.69	−1.06	4.00	0	10	14	11	6
1901	63.8	−0.6	98	30	1.47	−3.30	3.04	0	6	15	10	6
1902	69.4	+5.0	98	39	5.03	+0.26	4.35	0	11	13	11	7
1903	65.1	+0.7	92	23	7.10	+2.33	3.10	0	15	9	10	12
1904	63.1	−1.3	95	32	5.03	+0.26	4.33	0	12	13	10	8
1905	64.9	+0.5	94	34	4.87	+0.10	4.55	0	10	12	11	8
1906	66.3	+1.9	98	27	2.16	−2.61	3.83	0	7	15	10	6
1907	59.5	−4.9	91	17	5.56	+0.79	4.33	0	10	14	6	11
1908	66.1	+1.7	96	24	6.92	+2.15	5.65	0	12	12	10	9
1909	63.3	−1.1	96	23	5.34	+0.57	5.26	0	9	15	9	7
1910	60.1	−4.3	94	32	6.62	+1.85	4.30	0	13	11	8	12
1911	68.8	+4.4	101	27	1.55	3.22	2.06	0	5	19	7	5
1912	67.6	+3.2	97	30	3.86	−0.91	4.90	0	7	18	8	5
1913	65.8	+1.3	101	33	3.05	−1.93	2.95	0	8	16	7	8
1914	66.6	+2.0	98	31	1.47	−3.40	3.00	0	5	17	9	5
1915	63.7	−1.4	97	30	7.86	+3.04	7.10	0	12	12	7	12
1916	65.6	+0.7	96	33	5.61	+0.89	4.10	0	11	15	8	8
1917	58.7	−6.2	91	30	4.33	−0.47	2.60	0	10	15	7	9
1918	68.3	+3.8	100	28	5.49	+0.68	5.25	0	10	16	8	7
1919	62.0	−2.5	93	35	5.80	+0.87	4.50	0	13	10	10	11

SUPPLEMENTAL TABLE OF DATA.

Stations.	Length of record, years.	Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
		Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Arlington	15	6.11	+1.79	0.92	0	12	15	1	5	......	Wm. R. Bennett.
Boonville	41	5.06	−0.21	1.02	0	16	8	3	20	se.	C. Randecker.
C. Girardeau	11	4.76	+1.04	1.03	0	15	11	4	16	e.	D. L. Albert.
Glencoe	1	6.39	....	1.15	0	15	11	2	18	......	L. M. Beard.
Hermann	44	4.32	+0.02	1.26	0	16	12	0	19	e.	W. E. Crawford.
New Madrid	24	5.62	+1.23	1.45	0	18	8	8	15	se.	Miss Josie Smith.
Osceola	18	9.63	+3.72	4.26	0	18	12	3	16	......	Wm. E. Mathews.
Pacific	1	6.38	....	1.23	0	15	8	2	21	e.	Mark Waters.
Steelville	16	8.29	+3.96	3.80	0	17	18	0	13	nw.	A. Kreamelmeyer.
Tuscumbia	1	5.92	....	1.24	0	15	11	2	18	n.	C. B. Wright.
Union	1	4.74	....	1.10	0	18	13	1	17	nw.	J. Wm. Keller.
Valley Park	1	6.15	....	1.40	0	15	12	6	13	....	T. W. McNeese.
Waverly	3	5.48	....	1.26	0	14	15	5	11	......	J. W. Cauthorn.

Climatological data for May, 1919.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of days. With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Northeast Plain.																				
Brunswick	Chariton	650	37	60.9	−3.5	89	16	40	2	41	5.04	−0.11	1.69	0	12	13	3	15	ne.	Louis Benecke.
Clifton Hill	Randolph	731	20	61.8	−2.1	90	30	40	2	33	5.52	−0.22	2.55	0	13	9	16	6	...	L. S. Harlan.
Columbia	Boone	784	30	61.5	−3.0	87	30	43	2	29	6.21	+1.35	1.45	0	15	4	16	11	ne.	U. S. Weather Bureau.
Fayette	Howard	725	32	60.7	−3.8	85	30	38	2	27	5.12	+0.47	1.85	0	13	...	...	...	...	Prof. L. J. Abernathy
Fulton	Callaway	818	13	61.5	−3.6	88	30	36	2	33	5.89	+1.21	1.41	0	15	10	9	12	ne.	Dr. C. J. Elmore.
Gorin	Scotland	700	28	...	...	...	...	...	...	...	7.49	+2.91	2.23	0	11	6	6	19	ne.	J. W. Pulham.
Hannibal	Marion	534	24	60.6	−3.8	87	30	42	9	32	6.36	+1.36	2.01	0	14	6	11	14	ne.	U. S. Weather Bureau.
Jefferson City	Cole	557	31	61.6	3.6	86	30	42	2	35	4.74	+0.20	0.88	0	17	12	10	9	n.	Miss Emma Swift.
Keytesville	Chariton	660	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	J. T. Dewey, M. D.
Kirksville	Adair	969	25	59.0	3.4	84	30	39	9	34	8.13	+2.84	1.74	0	11	14	17	0	s.	Prof. Mark Burrows.
Louisiana	Pike	469	39	60.0	−3.9	85	30†	38	2†	32	4.67	+0.15	1.15	0	17	16	8	7	n.	L. T. Farrell.
Macon	Macon	875	19	59.8	4.3	88	30	39	2†	43	5.52	+0.65	1.43	0	16	9	9	13	e.	W. C. Brown.
Mexico	Audrain	797	39	60.1	−4.1	89	30	38	2	40	7.85	+3.12	1.20	0	17	12	10	9	w.	Mrs. Abbie Snoddy.
Oakfield ‡‡	Franklin	793	46	61.7	−3.9	86	4	43	17	31	8.66	+3.73	1.45	0	15	1	14	16	se.	E. E. Stemes.
Palmyra	Marion	652	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	W. B. Markell.
St. Catherine	Linn	850	8	59.3	...	83	31	37	2	31	5.57	...	2.05	0	13	7	17	7	e.	L. D. Baker.
St. Charles	St. Charles	456	39	62.2	0.2	90	30	45	21	29	6.06	+1.81	1.35	0	10	6	8	17	ne.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	46	63.0	−3.5	88	30	46	9	27	7.86	+3.62	1.49	0	17	6	12	13	ne.	U. S. Weather Bureau.
St. Louis (2)	do	578	7	62.6	...	86	29†	46	9	25	6.47	...	1.62	0	16	7	15	9	e.	St. Louis University.
Shelbina	Shelby	779	25	...	...	...	...	...	...	...	6.41	+1.25	2.85	0	7	...	...	...	...	S. G. Parsons.
Steffenville	Lewis	650	24	62.0	−2.5	88	30	39	20	35	6.32	+1.29	1.10	0	12	9	17	5	e.	Frank Hall.
Unionville	Putnam	1,072	24	59.2	−3.4	88	30	38	2†	34	8.56	+2.55	3.60	0	13	11	4	16	ne.	Geo. W. Davis.
Warrenton	Warren	865	26	60.8	−4.3	88	30	43	10†	35	6.57	+1.94	1.38	0	16	5	8	18	e.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	571	46	60.0	−3.2	88	30	42	9	33	4.24	−0.01	1.35	0	14	6	17	8	ne.	U. S. Weather Bureau.
Section means and	extremes			60.9	−3.4	90	30	36	2	40	6.33	+1.54	3.60	0	14	8	12	11	ne.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	26	69.6	+0.2	92	29	47	21	25	7.91	+3.94	1.75	0	15	13	10	8	e.	H. F. Averill.
Doniphan	Ripley	314	12	65.2	−1.7	84	29†	45	11†	33	4.23	+0.48	0.60	0	15	11	9	11	sw.	W. W. Martin.
Jackson	Cape Girardeau	458	26	65.2^{a}	−0.7	90	29	39	2	40	5.22	+1.20	1.40	0	14	4^{a}	10^{a}	16^{a}	s.	L. M. Bean.
Marble Hill	Bollinger	420	25	62.2	−3.7	90	1	35	9	39	3.90	−1.38	0.95	0	9	10	12	9	s.	W. A. Kinder.
Patton (near)	Bollinger	500	3	...	...	...	...	...	...	...	4.33	...	0.93	0	10	...	...	...	...	George F. Ellis.
Poplar Bluff	Butler	339	13	65.0	−3.1	87	30	42	2	39	4.88	−0.12	1.39	0	17	15	2	14	...	Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill	359	44	64.9	−2.6	86	29	47	9	27	3.53	−0.30	0.64	0	15	3	9	19	ne.	U. S. Weather Bureau.
Section means and	extremes			65.4	−1.9	92	29	35	9	40	4.86	+0.61	1.75	0	14	9	9	13	s.	
Ozark Plateau.																				
Arcadia	Iron	925	39	61.0	−3.7	83	4	39	2	38	4.65	−0.04	0.82	0	14	10	7	11	s.	Arcadia College.
Birchtree	Shannon	1,078	23	63.0^{a}	−0.3	83	4†	41	2	33	4.40	+0.34	0.65	0	12	12^{a}	7^{a}	11^{a}	s.	V. H. Kirkendall.
Bolivar	Polk	1,071	29	63.1	−1.9	86	29	40	17	31	9.37	+4.13	4.05	0	13	8	12	11	ne.	K. H. Brown.
Cassville	Barry	1,475	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	R. H. Wallen.
Dean ‡‡	McDonald	1,000	20	63.4^{b}	−2.5	85	31	40	21	35	4.11	−1.97	1.05	0	11	15^{a}	4^{a}	11^{a}	...	H. E. Dean.
Eldon	Miller	934	20	57.2	−7.7	81	6	38	2	36	5.81	−0.97	1.30	0	15	4	10	17	ne.	E. H. Shepherd.
Farmington	St Francois	918	8	61.4	+0.7	93	29	45	9†	35	5.60	−0.49	1.12	0	15	8	12	11	ne.	Robert Forsyth.
Gano ‡‡	Dent	1,250	13	61.6	−4.0	88	4	40	2	37	5.75	−1.37	1.85	0	15	11	9	11	ne.	A. C. Leach.
Goodland	Iron	1,000	12	62.0	−2.6	85	4	37	2†	45	5.48	+1.13	0.98	0	11	11	13	7	s.	F. M. Adams.
Hollister	Taney	735	33	...	...	...	...	...	...	...	9.35	+5.06	1.60	0	16	16	0	15	sw.	W. P. Chapmann.
Houston	Texas	1,280	24	63.0	−1.9	84	4	42	2†	33	4.44	+0.32	1.20	0	11	14	6	11	se.	R. F. Harmon.
Koshkonong	Oregon	958	18	64.3	−2.6	84	6†	45	21	29	2.74	−1.77	0.47	0	11	10	8	13	sw.	R. M. Hitt.
Lebanon	Laclede	1,265	28	60.6	−5.2	85	29	40	3	38	9.10	+3.60	2.83	0	20	17	6	8	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	22	63.3	−1.3	83	30	43	17†	31	5.81	+0.83	1.61	0	15	7	9	15	se.	C. S. Crow.
Mountain Grove	Wright	1,490	20	60.8	−3.4	83	4	41	21	37	7.95	+3.32	1.70	0	19	5	11	15	s.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	34	63.5	−2.7	85	30†	39	2	37	3.93	−2.16	1.37	0	12	17	6	8	ne.	W. O. Buck.
Rolla	Phelps	1,139	35	63.0	−1.6	86	29	41	2	36	7.04	+2.06	1.73	0	18	5	19	7	s.	Prof. Elmo G. Harris.
Springfield	Greene	1,350	30	62.0	−2.6	81	29	44	21	28	4.52	−1.03	1.33	0	15	8	16	7	ne.	U. S. Weather Bureau.
Section means and	extremes			62.4	−2.7	93	29	37	2†	43	5.89	+0.81	4.05	0	14	11	9	11	ne.	
Southwest Plain.																				
Amoret	Bates	831	12	62.4	−1.2	84	29†	40	2	35	5.29	+0.33	1.53	0	12	8	15	8	s.	Darby Fruit Farm.
Appleton City	St. Clair	853	26	63.8	−1.4	85	29†	44	2	41	5.67	+0.09	1.29	0	14	10	14	7	ne.	W. G. Bigelow.
Clinton	Henry	765	30	62.8	−2.5	86	31	40	2†	40	6.46	+1.01	1.40	0	11	5	18	8	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	912	44	61.6	−2.4	86	29	40	2	35	5.39	+0.52	1.70	0	15	16	3	12	ne.	A. J. Sharp.
Lamar	Barton	980	36	63.4	−2.6	85	30†	42	2†	36	5.20	−0.15	1.80	0	11	14	10	7	s.	Joe W. Springer.
Lamonte	Pettis	863	30	60.9	−4.1	85	29	40	11	31	5.72	+0.72	1.95	0	8	6	16	9	ne.	J. Ed. Hall.
Marshall	Saline	779	29	62.8^{d}	−1.3	86	29	41	11†	36	5.43	+0.49	1.80	0	7	13^{d}	8^{d}	6^{d}	se.	Dr. W. H. Black.
Nevada	Vernon	860	25	62.6	2.1	83	30†	44	2†	32	4.70	−0.94	1.22	0	12	14	7	10	n.	George A. Kaupp.
Warrensburg	Johnson	883	38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Geo. H. Collins.
Warsaw	Benton	715	20	63.6	−2.3	86	29	38	2	34	8.09	+2.95	1.75	0	10	6	17	8	e.	J. R. Smith, M. D.
Section means and	extremes			62.7	−2.2	86	29†	38	2	40	5.77	+0.56	1.95	0	11	10	12	9	ne.	
Northwest Plateau.																				
Avalon	Livingston	730	31	63.0	−0.2	85	29†	42	2	27	4.92	−0.29	2.05	0	8	12	16	3	sw.	F. G. Ashbaugh.
Bethany	Harrison	916	27	61.0	−1.4	87	30	36	2	30	8.15	+3.03	2.65	0	10	5	18	8	ne.	M. H. Moulton.
Chillicothe	Livingston	768	10	59.7^{f}	−1.4	86	30	40	2†	34	4.14	−1.36	1.20	0	9	...	...	...	...	R. L. Isherwood.
Conception	Nodaway	982	32	60.4	−1.3	86	30	40	11	33	7.15	+2.45	3.43	0	5	4	21	6	ne.	Fr. Adelhelm Hess.
Gallatin	Daviess	803	17	...	...	...	...	...	...	...	4.85	−0.88	2.62	0	9	8	18	5	se.	Robert R. Wynne, Jr.
Grant City	Worth	1,134	24	59.9	−2.2	86	30	40	2	26	5.47	+0.75	1.15	0	8	13	14	4	nw.	W. H. Campbell.
Kansas City	Jackson	963	28	62.8	−1.7	84	31	45	9	26	3.43	−1.68	0.73	0	16	9	15	7	n.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	26	60.6	−1.4	84	31	40	9	28	3.11	−2.44	1.25	0	10	13	7	11	ne.	J. F. Sharp.
Lexington	Lafayette	688	35	62.8	−1.7	86	29†	40	2	30	4.43	−0.70	0.88	0	14	14	0	17	s.	J. W. Keithley.
Liberty	Clay	864	28	65.3	+0.6	89	31	41	2†	33	3.78	−1.37	1.10	0	12	14	10	7	ne.	W. C. Wilmott.
Maryville	Nodaway	1,036	26	58.6	−2.4	86	28	38	2†	39	5.74	−0.19	2.72	0	11	13	4	14	n.	J. R. Brink.
Oregon	Holt	1,048	61	60.6	−2.7	85	30	38	5	27	5.91	+1.01	3.20	0	11	8	12	11	ne.	Tom Curry.
St Joseph	Buchanan	967	45	62.8	−1.7	86	30	43	5	26	4.69	+0.35	2.07	0	10	11	14	6	ne.	U. S. Weather Bureau.
Tarkio	Atchison	976	17	61.2	−2.4	87	29	38	5	31	4.81	−2.97	1.05	0	6	15	13	3	ne.	John F. Frazier.
Trenton	Grundy	822	22	61.4	−2.5	86	30	42	2	28	9.09	+3.62	4.50	0	14	10	9	12	ne.	W. H. Estes.
Section means and	extremes			61.1	−1.6	89	31	36	2	39	5.11	−0.04	4.50	0	10	11	12	8	ne.	
State means and	extremes			62.0	−2.5	93	29	35	9	43	5.80	+0.87	4.50	0	13	10	10	11	ne.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports ar used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing: for example, ^{b} represents two days, etc.

† Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Oakfield, Pacific, R. F. D No. 1; of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily precipitation for May, 1919.

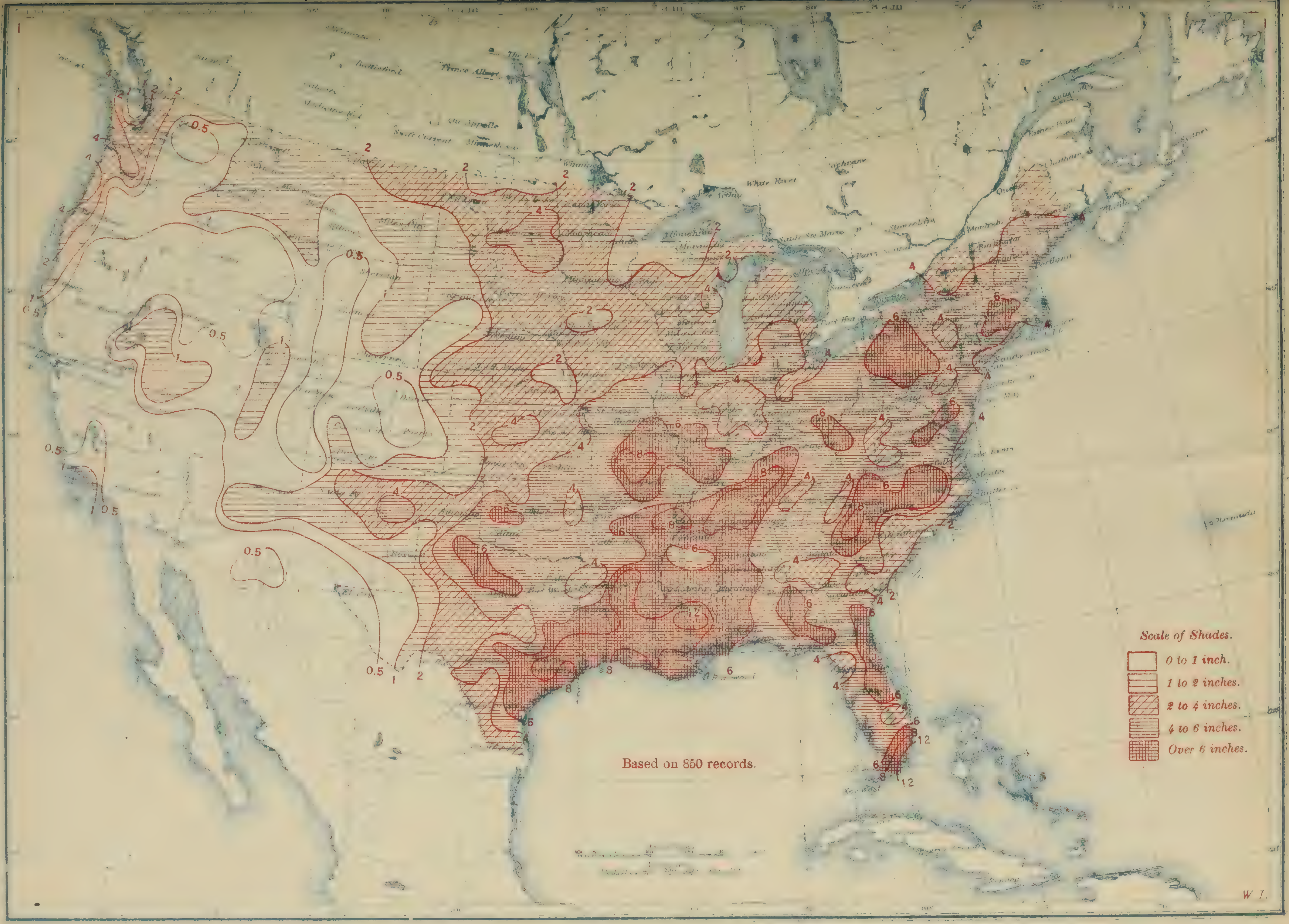
Stations.	Watersheds.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville	Missouri	T.		.12	.74	.04		.20	.57	.14						.04	1.02	.05		.85	.74						.03	.12	.18			.22	5.06
Brunswick	Grand																																
Clifton Hill	Chariton		.05	.37	.12		.18	.02	.50							.08	.02			2.55				.08		.08		.72				.75	5.52
Columbia***	Missouri		.12	.53	T.	.01	.07	.08	.98							.35	1.08		T.	1.36	.04	T.	T.	T.		.04	.05	.04	T.		.35	1.11	6.21
Fayette	do																																
Fulton	do			.35		.01		.08	1.27							.25	1.22			1.41	.04	.17	T.	.08		.02	.64	.07	.01		T.	.27	5.89
Glencoe	Meramec																																
Gorin	Mississippi	T.	.10	1.34	2.23		.95		.12						.01	.14				1.11		.17						.42				.90	7.49
Hannibal***	do	.02	.03	.30	.70		.87	T.	.51						T.	.13				1.59	T.	.05	.09	.04	T.		1.58	.43			T.	.02	6.36
Hermann	Missouri			.12		.13		.10	.48	.37							1.26	.20		.20	.62		.04	.04	.10		.07	.24	.10		T.	.25	4.32
Jefferson City	do			.37	.02			.02	.88	.41						.05	.71	.12		.68	.54	.01	.01				.30	.14	.01		.06	.38	4.71
Keytesville	Chariton																																
Kirksville	Mississippi	.06	.12	1.63	1.42		.90		.17							.88				1.74	.02	.01	.01	.04				.69				.44	8.13
Louisiana	do		.04	.19	.32	.03		.30	1.15	.01						.01	.16			1.12		.10	.30	.02	.03		.04	.74				.08	4.67
Macon	Chariton	.03	T.	.43	.25		T.	.52	.45	.10						.20	.10			1.10	1.43	.05	.02		T.		.03	.38	.22			.21	5.52
Mexico	Mississippi			.29	.22	.28		.15	.92	.42						T.	.95			.60	1.20	.21	.03	.02	.50		.09	.60	.57			.80	7.85
Oakfield	Meramec			.11	1.19	.10		.33	1.37							.03	1.33			1.18	T.	.13	.17	.05	T.	T.	1.07	1.45	.02		T.	.13	8.66
Pacific ‖	do				.11	.58		.21	.35	.74							.99	.46		.03	1.23	.01	.22	.09	.03	T.	.09	1.20	.01			T.	6.38
Palmyra	Mississippi																																
St. Catherine	Grand	.01	.33	.80	.57		.29	T.	.20							.42	T.			2.05	.05	T.	T.	.02	T.		.03	.52				.28	5.57
St. Charles	Missouri			.18	T.	.30		.05	1.05							1.20				1.34		T.	.44	T.	T.	T.	.10	1.35	.05			T.	6.06
St. Louis (1)***	Mississippi	.02		.05	1.40		.81	T.	1.26	T.			T.			.11	.55			1.49	.01	.01	.19	.65		.01	.86	.38	.04			.02	7.86
St. Louis (2)	do			.01	.86		.32		1.01							.13	.55			1.62	.01	.05	.13	.29	.01	.01	.91	.39	.06			.11	6.47
Shelbina	do			.40		.33	.43													2.85		.20						1.23				.97	6.41
Steffenville	do	T.	.37	.65	.80		1.10		.45							.68				.25	T.	.06	.06	.05			T.	.85				1.00	6.32
Union	Meramec	.01			.06	.37		.22	.37	.73							.08	.56		.08	1.10	.07	.10	.06	.01		.09	.69	.02			.12	4.74
Unionville	Chariton	.12	2.50	1.10			.70								.20	.60			.95	.55	T.	T.	.04	T.			.70	.10			.20	.80	8.56
Valley Park ‖	Meramec																																
Warrenton	Mississippi			.04	.17	.04		.03	.56	.52							1.38	.10		.18	.82	.08	.11	.01	.18		T.	1.29	1.06				6.57
Keokuk, Iowa***	do	T.	.27	.67	1.30		.78		.16						T.	.03				.51		.12	.11	.03			.02	.09			.08	.04	4.24
Southeast Lowlands.																																	
Cape Girardeau	Mississippi	.30				.30			.38	1.03	.14						.52	.06			.53		.60	.08		.03	.04	.13	.22	.10			4.76
Caruthersville	do						T.	.70	.42	1.10			.08			.23	.04	1.75		.80		.05	.31		.52		1.08	.12	.52			.22	7.94
Doniphan	Black					.08		.12	.60	.50			.40			.50	.10			.30		.07	.13	T.	T.	.35	.23	.05	.50		.30	T.	4.23
Jackson	Mississippi	.05			1.40		.02		.74	.61							.12	1.03		.45		.26			.20	.14	.04	.06			.10		5.22
Marble Hill	do						.86				.95	.70						.10	.10			.49		.10				.25	.50				3.90
New Madrid	do	1.15				.04		.10	.40	.70	.13			.02			.26	.22			.55		.04	.40	.02	.16		.47	.01	.35		.30	5.62
Patton (near)	do	.01				.82			.93	.47								.82		.06						.04	.70			.07	.41		4.33
Poplar Bluff	Black	.48				.37		.02	.34	1.39	.19			.03			.81	.11			.30		.06	T.		.19	.04	.09	.03	.35	T.	.08	4.88
Cairo, Ill.***	Mississippi					.28	.06	.05	.37	.57			T.			.22	.43			.58	T.	T.	.34		.01	.07	.47		.02	.05	T.	.01	3.53
Ozark Plateau.																																	
Arcadia	St. Francis	.14			T.	.58		.06	.47	.82	T.						.64	.16			.27	T.	.17	T.		.60	.10	.16	.23	.25		T.	4.65
Arlington ‖	Gasconade			T.	.70				.92	.52			T.				.90	.55		.45	.40	T.	.05	T.	.46		.39	.39	T.	T.	T.	.38	6.11
Birchtree	Black					.64			.65	.35			.35				.54		.32			.32				.35	.12		.42	.27		.07	4.40
Bolivar	Osage			.24			T.	.50	1.25				.43			.37	4.05			.99	.28	T.				.35	.56	.07	.18			.10	9.37
Cassville	White																																
Dean	Neosho							.21	1.03			.05					.68			.70	.06	T.			.11	.35	.42	.46			.04		4.11
Eldon	Osage		.16					.85	.43				.03			.21	1.30			1.00		.08	.10		1.00	.10	.10			.11	.05	.29	5.81
Farmington	St. Francis			T.		1.12			.96	.37						T.	.79	.05		.22	.10	.16	.17	T.	.19	.65	.20	.51		.05		.06	5.60
Gano	Meramec	.06		.05		.19			1.25	.09			.16			.25	1.85			.67		.14		.26		.24	.05	.40		.09	T.		5.75
Goodland	Black					.36			.98	.37							.98				.40	.48	.04	.76	.69	.17	.25						5.48
Hollister	White						.44	.60	.60	.44	1.60		.60		.30	.40				.70		.60	.70	.60		.42	.46		.50	.40			9.36
Houston	Gasconade					.23		T.	1.17	T.			.27			.23	1.20			.25	T.	.16	T.			.35	T.	.26	T.	.20	T.	.12	4.14
Koshkonong	Black					.21			.47	.17			.46				.05			.47		T.				.42	.18	.05	.16		.10		2.74
Lebanon ‖	Osage			.15	.02		.13	.36	.80	.17			.05	.11		.04	2.83	.43		.77	.02	.30	.02		T.	.30	.10	1.80	.64		T.	.06	9.10
Lockwood	do			.34		.38			1.40				.35	.05		.05	.40			1.61	.10	.10				.32	.42	.15	.05		T.	.09	5.81
Mountain Grove ‖	White	T.				.82	.45	.12	1.03	.35			.15	.45			.60	.57		.37	.10	.08	.04		T.	.08	.32	.05	1.70	.14		.53	7.95
Neosho	Neosho					T.	T.	.20	1.37			.01	.18			.03	.41			.65	.05					.57	.11	.20	.15		T.		3.93
Rolla ‖	Meramec	.01		.23		1.73			1.11	.67			.06				.84	.47		.30	.45	.03			.25	.08	.25	.03	.08		.08	.37	7.04
Springfield***	White			.35	.01	.39	.60	.80	.54			.08	.10			.10	.37			.55	.01	T.				.22	.13	.27	T.	T.	T.		4.52
Steelville ‡	Meramec				.16	3.80		.10	.70	.43							.88	.37		.17	.56	.08	.08	.03		.21		.38	.09	.10		.15	8.29
Tuscumbia ‖	Osage																																
Southwest Plain.																																	
Amoret	Osage			.46			.41	.05	.62			T.	.18			.56	1.53		T.	1.18	.01	T.				.22	.03		.04		T.		5.29
Appleton City	do			.53	.01			.60	.60				.35			.41	1.29			1.25	.02					.23	.30	.02	.05		T.	.01	5.67
Clinton	do			.48				.55	.88	.11			.22			1.40				1.25	.10					.12	1.05			.30			6.46
Harrisonville ‖	do			.37				.31	.50	.01			.27	.20		.03	.55	T.		1.70		.10	.07				.50	.58	.03	T.	.17		5.39
Lamar	Neosho			.07		.52		.77	.25					.45		.10	.19	.23		1.80	T.					.14	.14	.19	.32			.03	5.20
Lamonte	Missouri	T.	.60		T.		.80	.15	1.12				T.			.10	.75			1.95	T.	T.	T.		T.		T.	T.	T.	T.	.25	T.	5.72
Marshall	do		.83					.55	.47							T.				1.80	T.				T.	.05	T.	.95	T.	T.		.78	5.43
Nevada	Osage																																
Osceola ‖	do			.37	.02	.03		.17	1.05	.13			.13	.15			4.26	.46		1.56	.27	.13				.13	.18	.33	.13			.13	9.63
Warrensburg	Missouri																																
Warsaw ‖	Osage		T.	.21	T.	T.		.65	1.25				.23			.85	1.70			1.75	T.	T.				.35	.75	T.	T.	.35	T.	T.	8.09
Waverly	Missouri	T.		.32	.35	T.		.72	.53	.08				T.		T.	.78	.03		1.26	.53	.03					.15	.28	.39			.03	5.48
Northwest Plateau.																																	
Avalon	Grand			.75	.17				.50							.15				1.85	.20						.50					.80	4.92
Bethany	do		.08	2.45	.45		.10	T.								.50				1.15	.12		T.	T.	.12		T.	.53				2.65	8.15
Chillicothe ‖	do																																
Conception	Missouri			3.43	2.73		.14							T.		T.			T.	.24			T.		T.	T.	T.	T.				.61	7.15
Gallatin	Grand		.06	2.62	1.13		T.									.08			T.	.45	.08			T.	.04		.04	.35				T.	4.85
Grant City	do		.13	1.14	1.15	.47		T.					T.			.15				1.35			T.	T.	T.	T.	T.	.08				1.00	5.47
Kansas City***	Missouri		.01	.53	.01		.17	.07	.22			.20	.36		T.	.21	.40		.60	.13	T.					.02	.10	.39	T.		T.	.01	3.43
Kidder	Grand			1.25	.65				.03				.02							.55	.18	.05			.03			.05	.30				3.11
Lexington	Missouri			.32	.52			.04	.52	.09			.12				.26			.78	.11	.12					.07	.08	.52		.88		4.43
Liberty	do		T.	.90			.15		.25				.25			.20	.40			1.10		.07					.10	.15			.18	.03	3.78
Maryville	do	T.		1.89	2.72		.11	.24					.05			T.				.36	.18			T.			.08	.02	.05			.04	5.74
Oregon	do			3.20	1.15		.08	.26					.10						.49	.07							.12	.17			.15	.12	5.91
St. Joseph***	do		1.34	1.77	.45		T.						.15			.04			.28	.13	T.				T.	.07	T.	.26		T.	T.	.20	4.69
Tarkio	do			1.05	.20		.02						.16							.39												.02	1.84
Trenton	Grand		.11	4.50	1.12		.28								.26				1.09	.21	.03		.01	T.	.09	T.	.19	.21			.11	.88	9.09

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. **Precipitation in the next following measurement. ‡ Separate dates of fall not recorded

Daily temperatures for May, 1919.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Minimum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Columbia	Maximum	62	72	80	80	65	83	62	53	63	67	69	65	67	74	76	65	[illegible]	70	58	61	58	61	74	73	71	71	78	78	83	87	80	70.3
	Minimum	48	43	60	58	48	57	51	47	45	45	51	52	52	46	53	48	45	44	49	45	48	52	49	54	58	63	63	62	63	66	68	52.7
Fayette	Maximum	60	65	75	76	63	82	59	58	64	68	68	64	68	74	78	73	68	71	64	62	60	60	75	73	68	71	78	71	82	85	80	69.9
	Minimum	43	38	55	56	45	55	50	43	41	42	50	52	50	54	51	53	45	50	52	44	47	[illegible]	47	55	53	61	64	61	61	65	64	51.5
Hannibal	Maximum	62	67	77	75	66	82	63	54	63	66	67	63	64	73	74	65	69	71	62	61	57	59	69	71	71	76	75	81	83	87	84	69.5
	Minimum	49	43	57	56	48	50	50	46	42	46	50	50	49	45	51	48	46	44	49	45	48	48	49	50	57	61	64	64	61	64	69	51.6
Jefferson City §§	Maximum	62	75	80	80	65	83	65	52	63	70	70	66	68	75	76	63	70	75	61	65	61	62	79	75	71	73	80	79	85	86	82	71.5
	Minimum	45	42	45	60	51	52	50	50	45	45	48	51	52	46	51	53	45	46	50	45	47	49	49	52	55	61	62	62	63	65	66	51.8
Kirksville	Maximum	60	61	75	71	64	80	65	56	64	67	66	62	70	73	73	69	68	70	60	62	57	62	67	70	74	72	71	81	80	84	79	68.9
	Minimum	46	40	53	54	41	46	46	47	39	42	47	49	42	42	51	43	52	48	48	42	44	48	50	50	52	61	61	60	51	64	65	49.2
Louisiana	Maximum	63	65	78	75	66	82	82	63	65	65	66	66	64	72	71	69	68	68	67	57	56	60	66	70	70	70	75	80	80	85	85	70.0
	Minimum	50	38	66	60	48	50	50	48	43	40	43	50	50	40	45	52	40	38	50	41	48	48	41	56	46	60	63	60	58	60	68	51.0
Macon §§	Maximum	62	67	77	70	69	83	67	56	67	70	70	67	69	74	75	67	73	73	55	65	56	62	73	74	71	75	71	81	85	88	82	71.0
	Minimum	46	39	43	56	42	43	45	48	39	41	44	50	45	46	49	50	44	44	52	41	44	48	48	50	53	60	61	59	56	58	65	48.7
Mexico §§	Maximum	65	73	80	81	69	85	64	52	64	69	70	64	67	76	77	66	71	73	55	63	59	62	69	74	71	72	76	79	84	80	84	71.1
	Minimum	47	38	40	58	45	48	48	49	43	42	41	50	50	44	50	52	44	43	53	42	47	48	47	50	53	60	62	60	56	61	60	49.7
Oakfield	Maximum	63	74	79	86	65	80	70	60	58	67	67	62	65	75	74	68	69	71	61	63	59	63	76	74	73	76	78	81	83	85	81	71.4
	Minimum	45	41	60	62	54	52	52	47	44	45	45	49	45	44	52	53	43	50	48	44	44	48	46	52	60	62	62	62	62	68	67	52.0
St. Catharine	Maximum	59	65	73	71	61	79	67	57	64	67	67	60	68	75	73	67	71	68	61	60	58	59	71	72	74	72	71	80	81	83	78	69.0
	Minimum	41	37	53	56	41	48	46	47	40	41	50	50	45	48	50	49	41	43	47	43	43	51	47	50	53	60	60	60	58	65	66	49.6
St. Louis (1)	Maximum	63	72	80	81	67	80	66	59	59	66	66	64	64	75	72	64	70	73	60	57	61	60	74	72	70	80	76	82	85	88	82	70.7
	Minimum	53	51	60	59	51	53	54	48	46	48	52	50	49	52	56	57	52	55	50	47	49	49	49	55	61	63	64	65	66	71	71	55.2
Unionville	Maximum	58	62	74	73	63	80	66	60	66	70	68	64	68	74	76	75	72	70	62	64	58	60	70	71	78	75	72	83	84	88	80	71.5
	Minimum	45	38	42	52	38	46	41	48	38	40	46	48	40	46	50	45	43	45	50	40	44	50	48	50	48	60	62	55	53	62	65	47.8
Warrenton §§	Maximum	63	67	82	83	66	84	64	50	58	68	69	65	66	75	77	65	60	74	54	60	60	60	72	74	70	75	76	80	85	88	81	70.3
	Minimum	49	41	46	59	52	51	51	50	44	43	47	49	46	46	49	52	47	49	53	43	45	48	47	50	55	61	61	61	60	61	68	51.2
Southeast Lowlands.																																	
Caruthersville	Maximum	77	83	89	90	91	88	80	80	64	72	79	72	78	83	84	84	86	84	84	76	68	73	78	78	86	80	87	87	92	90	89	81.5
	Minimum	53	48	60	60	65	64	65	63	49	52	50	54	52	50	56	59	[illegible]	54	57	52	47	50	53	62	63	64	65	64	66	72	69	57.8
Doniphan	Maximum	72	75	81	82	81	85	85	65	57	71	75	66	73	78	79	77	70	76	75	70	65	73	79	78	79	76	79	81	81	84	84	76.0
	Minimum	48	46	59	60	62	61	62	55	48	53	45	51	45	45	50	57	50	49	53	49	45	48	47	56	62	60	63	62	63	64	68	51.1
Jackson	Maximum	71	79	81	83	82	78	82	68	69	70	68	70	68	77	77	71	74	78	72	68	70	65	86	81	80	79	82	85	90	87	...	[a]76.4
	Minimum	50	39	59	69	69	58	68	65	54	50	48	42	44	42	46	59	[illegible]	46	52	50	48	49	41	56	63	61	65	61	65	63	...	[a]54.1
Marble Hill	Maximum	90	74	72	78	73	80	75	68	68	80	60	70	70	83	70	76	77	80	75	76	68	65	70	68	79	80	80	78	81	83	83	75.3
	Minimum	57	40	42	50	45	52	56	47	35	42	47	52	44	49	47	41	[illegible]	57	46	47	51	48	50	47	42	46	63	54	60	59	67	49.2
Poplar Bluff	Maximum	72	77	78	82	82	73	72	65	57	72	74	73	75	85	79	72	78	77	73	72	63	76	80	78	79	78	84	77	84	87	85	76.1
	Minimum	49	42	59	59	60	59	62	51	48	52	45	51	47	46	49	52	50	49	52	50	48	49	50	50	62	61	64	62	63	66	67	54.0
Ozark Plateau.																																	
Arcadia §§	Maximum	68	75	79	83	69	82	62	54	54	72	68	65	71	76	75	71	[illegible]	75	67	66	59	62	79	77	70	75	76	80	83	82	80	71.8
	Minimum	52	39	41	61	59	55	56	53	45	45	41	[illegible]	41	40	44	51	41	43	47	49	47	48	42	47	57	62	62	60	62	61	64	50.3
Birchtree	Maximum	66	74	80	83	79	83	76	57	53	74	71	66	70	76	76	76	[illegible]	69	...	68	60	68	77	77	76	76	80	81	82	81	80	[a]73.4
	Minimum	49	41	55	68	60	57	55	52	45	50	40	49	45	45	50	55	40	48	...	47	44	48	45	52	60	61	61	66	61	64	64	[a]52.5
Cassville	Maximum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Minimum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Eldon	Maximum	54	71	80	80	66	81	65	50	57	60	65	65	60	60	73	68	[illegible]	72	56	54	55	56	72	70	68	65	75	70	72	74	76	66.3
	Minimum	44	38	56	59	47	55	47	46	42	40	44	47	46	44	50	47	[illegible]	42	47	41	42	41	46	50	54	51	56	59	49	59	62	48.2
Farmington	Maximum	63	71	80	87	78	88	76	61	53	62	77	66	70	75	82	71	[illegible]	80	73	64	59	61	80	82	82	77	80	86	93	86	85	75.0
	Minimum	52	48	57	63	57	55	54	50	45	51	45	50	46	48	50	55	47	46	51	48	47	49	45	56	63	61	63	62	65	72	64	53.7
Gano	Maximum	64	77	82	88	70	85	75	58	55	70	70	61	68	74	76	67	70	75	66	64	58	63	78	78	74	78	78	80	86	84	83	72.7
	Minimum	48	40	66	62	51	55	52	47	42	48	44	42	42	43	48	51	[illegible]	44	46	44	42	48	45	53	60	59	60	57	60	60	65	50.6
Hollister	Maximum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Minimum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Koshkonong	Maximum	70	71	80	82	82	84	78	60	55	71	71	64	72	76	78	78	[illegible]	77	68	67	62	71	75	77	76	75	86	80	81	83	84	74.5
	Minimum	50	48	58	62	61	60	59	53	47	52	47	50	46	50	54	49	[illegible]	49	53	47	45	48	50	48	61	61	62	62	64	64	66	54.1
Lebanon §§	Maximum	66	70	78	84	72	82	59	52	63	69	73	60	70	76	77	67	70	77	59	62	60	65	76	75	80	76	78	80	85	82	80	71.9
	Minimum	47	41	40	56	55	50	53	50	45	45	45	50	44	45	45	53	41	43	50	42	42	43	48	50	50	55	62	58	57	62	64	49.4
Mountain Grove §§	Maximum	63	72	80	83	78	80	51	54	55	70	69	57	72	74	74	73	70	74	64	63	59	66	76	74	76	73	78	79	82	89	81	71.4
	Minimum	51	42	43	51	57	57	55	50	44	44	48	49	45	45	46	53	[illegible]	46	53	45	41	43	46	51	53	48	58	59	60	64	63	50.1
Neosho	Maximum	64	76	80	84	82	84	82	56	62	73	73	63	71	75	80	80	[illegible]	78	78	69	65	73	74	81	80	76	75	78	83	85	85	75.4
	Minimum	43	39	61	65	57	56	52	48	47	42	45	55	52	41	49	57	41	48	53	41	42	46	44	53	60	58	60	59	64	58	62	51.6
Rolla	Maximum	64	77	81	85	72	85	80	58	51	54	72	69	69	73	68	69	70	75	72	74	65	62	75	80	76	78	79	82	86	84	82	73.3
	Minimum	49	41	62	63	55	57	52	51	45	46	48	50	47	41	50	50	51	47	53	45	45	51	47	47	62	62	62	61	62	63	65	52.8
Springfield	Maximum	61	74	79	81	70	78	61	52	61	70	69	57	68	72	77	65	[illegible]	73	62	63	60	66	73	78	74	71	72	78	81	80	79	70.3
	Minimum	47	46	56	62	56	60	48	48	46	53	50	52	50	52	55	50	[illegible]	53	48	44	44	49	53	56	61	62	61	61	64	65	66	53.7
Southwest Plain.																																	
Amoret	Maximum	67	75	79	77	69	82	66	58	66	69	68	65	70	76	80	75	70	76	67	64	65	73	80	81	71	72	78	80	84	83	84	73.2
	Minimum	43	40	55	62	48	51	50	47	41	45	48	52	50	47	54	50	[illegible]	49	51	45	41	48	46	57	56	59	56	60	62	64	64	51.5
Appleton City	Maximum	67	75	77	76	66	81	65	58	65	71	72	68	70	76	80	77	70	76	73	66	64	70	80	80	76	74	77	77	85	85	85	73.6
	Minimum	45	41	58	65	51	56	51	48	46	49	50	53	52	51	57	53	[illegible]	52	52	47	45	52	49	58	60	63	61	61	65	66	67	54.0
Clinton	Maximum	68	77	79	80	68	85	70	58	67	73	75	69	72	78	72	61	[illegible]	77	70	66	63	66	70	82	75	76	80	79	85	85	86	73.8
	Minimum	45	40	40	40	50	57	52	53	41	49	50	53	49	48	57	53	[illegible]	45	52	45	43	50	48	58	59	64	62	61	64	64	66	51.7
Harrisonville §§	Maximum	65	71	78	75	68	84	59	60	65	68	70	58	70	76	79	64	[illegible]	73	57	67	63	70	79	80	78	73	76	82	86	82	84	72.2
	Minimum	45	40	50	48	46	49	50	49	43	45	53	50	51	49	55	55	[illegible]	48	50	41	44	50	45	55	56	57	60	60	62	66	66	51.1
Lamar §§	Maximum	68	78	80	80	70	84	55	58	67	71	70	58	74	76	80	70	[illegible]	78	62	70	65	75	76	82	74	73	77	77	83	85	85	73.3
	Minimum	43	42	57	61	52	55	53	45	47	47	52	54	50	56	58	59	[illegible]	51	56	47	44	49	48	52	63	59	62	61	61	63	64	53.5
Lamonte	Maximum	64	72	78	74	66	82	61	58	64	71	70	62	60	77	78	68	[illegible]	73	64	65	60	62	78	68	76	71	70	79	85	84	82	70.8
	Minimum	40	46	58	62	42	58	50	46	44	45	49	52	50	46	52	41	40	42	50	50	46	47	48	57	55	57	54	61	60	61	68	51.0
Marshall	Maximum	64	77	77	...	...	...	69	59	67	70	70	...	70	77	81	75	[illegible]	72	70	64	60	62	78	77	73	75	78	80	86	83	80	[d]72.9
	Minimum	45	57	64	...	...	...	45	49	53	45	41	...	57	41	51	61	[illegible]	46	49	43	45	50	45	53	58	63	62	60	61	64	67	[d]52.6
Warrensburg	Maximum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Minimum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warsaw	Maximum	68	76	82	82	67	85	72	59	66	72	71	68	71	76	80	76	[illegible]	79	72	67	62	68	80	81	75	75	78	78	86	85	81	74.7
	Minimum	46	38	60	65	52	56	53	50	47	44	50	54	50	45	53	53	[illegible]	45	51	42	46	49	46	58	60	64	59	63	62	60	65	52.5
Northwest Plateau.																																	
Chillicothe §§	Maximum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Minimum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Grant City	Maximum	60	60	79	73	61	79	62	60	65	68	64	66	70	75	77	66	[illegible]	60	65	62	64	66	72	73	76	72	70	82	83	86	82	69.8
	Minimum	45	40	53	53	41	51	41	42	43	46	44	48	49	52	52	46	48	45	49	48	45	49	50	55	52	54	55	60	60	65	66	50.0
Kansas City	Maximum	65	73	80	71	63	82	59	58	64	68	68	59	70	76	78	67	[illegible]	73	61	65	64	72	79	77	70	71	70	80	83	83	84	71.0
	Minimum	49	51	57	53	46	56	50	48	45	52	54	52	53	56	59	50	51	54	49	50	48	53	55	58	59	64	63	60	65	68	68	54.7
Kidder §§	Maximum	60	63	76	67	64	80	59	62	65	67	68	62	68	73	78	65	69	67	62	62	62	63	75	71	73	74	68	80	82	83	81	69.5
	Minimum	45	44	55	55	42	52	48	48	40	48	51	51	50	52	56	48	45	53	50	47	44	50	52	55	54	62	62	60	66	66	62	51.8
Lexington §§	Maximum	63	70	78	72	68	84	63	60	67	73	72	65	72	78	81	71	72	73	66	65	63	67	81	79	73	76	75	82	86	85	86	73.1
	Minimum	45	40	58	63	45	55	49	48	42	45	50	53	51	50	59	51	44	45	54	47	45	50	51	55	57	64	63	59	61	64	68	52.6
Maryville §§	Maximum	60	60	78	64	62	76	60	65	66	68	67	62	70	73	74	63	72	69	67	62	66	71	74	75	77	75	72	86	85	84	81	70.5
	Minimum	42	38	39	51	38	38	42	42	40	40	43	49	46	47	47	48	41	42	47	41	41	41	47	49	51	55	60	57	59	60	63	46.7
Oregon	Maximum	63	66	79	75	62	77	61	64	65	69	69	63	70	72	77	78	70	70	68	66	68	73	77	78	76	74	70	82	84	85	82	72.0
	Minimum	41	41	52	51	38	54	43	44	42	45	50	49	48	49	53	46	43	47	47	44	41	46	46	53	51	60	57	56	60	63	64	49.2
St. Joseph	Maximum	64	68	82	69	65	79	60	63	67	71	70	63	71	74	78	67	72	71	65	65	67	73	78	79	76	75	70	83	86	86	85	72.3
	Minimum	46	43	56	49	43	54	49	49	45	46	54	53	52	54	59	51	46	49	51	49	48	53	53	58	56	64	61	60	64	67	68	53.3
Trenton	Maximum	60	66	76	70	65	80	66	60	64	68	68	66	66	72	74	70	70	73	68	63	61	65	72	71	76	73	70	82	82	86	80	70.3
	Minimum	46	42	50	52	44	52	48	49	43	48	51	52	50	53	53	49	56	57	48	45	45	50	50	56	55	65	62	58	61	65	66	52.3

a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged t the preceding day, on which it almost always occurs.


Scale of Shades.
0 to 1 inch.
1 to 2 inches.
2 to 4 inches.
4 to 6 inches.
Over 6 inches.
Based on 850 records.
0.5
1
2
4
6
8
12
W. I.

Daily Evaporation (inches) and Wind Movement (miles) for May, 1919, at Columbia, Mo.

Date.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mo.
Columbia*	Evaporation	.088	.155	.121	.113	.166	.146	.204	.099	.042	.135	.169	.199	.182	.169	.139	.106	.152	.107	.106	.079	.105	.076	.089	.037	.184	.074	.155	.125	.158	.186	.164	4.022
	Wind movement	48	55	36	29	41	45	44	41	9	87	26	17	40	23	36	23	25	27	27	34	30	37	28	20	41	29	14	19	32	20	18	1,023
University of Mo.†	Evaporation	.158	.170	.065	.181	.193	.161	.226	.128	.125	.153	.188	.256	.179	.240	.155	.218	.172	.204	.069	.146	.043	.089	.091	.115	.145	.062	.046	.088	.219	.206	.229	1.794
	Wind movement	268	77	20	65	61	148	73	105	108	44	79	148	57	54	50	61	41	25	65	89	68	70	57	91	40	58	45	48	61	98	17	2,294

*Observations taken at 7.45 a.m., Summer Time. †Observations taken at 5.30 p.m., Summer Time. Both stations are located on the University grounds; one on the West Campus and the other about one mile southeast on the Experiment Farm. To prevent confusion of records the former will be known as "Columbia" and the latter as "University of Missouri." The equipment is the same in both cases (see Annual Summary, 1918); but the Experiment Farm station has a freer exposure to sun and wind, comparing favorably with sea horizon.

DAMAGING STORMS, MAY, 1919.

The month was unusually free from damaging storms considering that it was one of frequent and heavy rainfall, on many days of which the rains were heavy to excessive in amount. The Rock Island and Wabash railways were forced to suspend service several days during the first week because of washouts in the vicinity of Trenton, Gallatin, and Pattonsburg. On the 3d and 4th, 5.62 inches of rain fell at Trenton.

On the afternoon of the 15th, by far the worst hailstorm ever known in that section struck Moberly and adjacent parts of Randolph County. The damage was worst in the eastern portion of the city where stones the size of large marbles fell continuously until the ground was covered with a layer several inches deep. During the hailstorm it was difficult to distinguish houses across the street. Though the storm occurred at 5 p. m. there was hail still on the ground the following morning. Damage to roofs and glass was considerable, though there were no heavy losers. Gardens, fruit, and grain crops suffered severely in small areas throughout the county.

May 15th, Appleton City—Severe hail from 8.30 p. m. to 8.40 p. m. Hailstones measured from 4 to 6 3-8 inches in circumference, though most of them were the size of dimes and quarters. It was the first hail of this year, and one of the worst for several years in the section where it was most severe. The territory southeast of here to about 8 to 10 miles away was damaged the worst, and embraced an area of perhaps 10 miles long by three miles wide; the storm came in from the southeast. Damage to roofs and glass in this city was considerable, the greenhouse having hardly a dozen panes left in a whole condition. Crops of hay and grain were damaged considerably, but the worst loss perhaps was to strawberries, potato fields, fruit trees, and gardens. Corn that was up was hurt to some extent. There was no high wind with the storm, and the hail came straight down most of the time. It was attended by excessive rain. (Extract from report of W. G. Bigelow, co-operative observer.)

On May 17th what seems to have been a tornado of minor intensity developed a few miles northeast of Cainesville in the New Harmony Church community about 11 p. m. Several farm residences were slightly damaged, but the church was completely wrecked, being carried bodily from the foundations and large portions of walls and roof carried several hundred yards. The piano was deposited in a large clump of bushes 100 feet from the site of the church, while song books were found nearly one-half mile away. There is a report of similar damage near Albany, about 40 miles southwest of this point, but this has not been verified as yet.

O. R. R.

OBSERVERS' REMARKS.

Gorin—Month has been wet, but there were no damaging storms.

Kirksville—While an unusual amount of rain fell, planting and prospects are fine.

Louisiana—A few hail stones fell on the 20th.

Macon—May 10th, abundant moisture; 15th, corn planting in progress; on the 14th the Charitan River overflowed, destroying many wheat fields; 27th, corn in danger, bottom lands probably will be replanted; 30th, warmth and sunshine helping materially.

St. Catherine—On the 4th the creek overflowed the bottoms, but left the bottoms the afternoon of the 5th. High east wind with heavy rain. No corn planted on bottom lands; too much water. Corn not more than one-half to three-fourths planted.

Warrenton—Too much cool, cloudy, rainy weather. Hail did some damage in restricted areas.

Caruthersville—Excessive rainfall very bad for hay. Cotton and corn damaged and delayed in planting in many places. Season so far generally unfavorable.

Jackson—This has been a very cool, wet month.

Farmington—While there were no torrential, washing rains, common at this season, the continued wet weather delayed farm work very much. The last week was warm but up to that time it was too cool for crops. Wheat is not so promising as first expected.

Gano—The soil has not been in condition to work since the 16th. Corn not all planted yet. Pastures good and live stock doing well.

Houston—We have had lots of rain and now need warmth and sunshine. Corn needs cultivation; and some yet to be planted.

Lebanon—The farmers are far behind with corn planting and what corn is up is badly in need of cultivation. The wet weather damaged wheat to some extent.

Lockwood—A very unfavorable month for farming, as it has been wet and cool. Wheat and oats are good but corn will be late. Pastures good.

Appleton City—There was too much rain for regular farm work. Heavy hail storm night of the 15th; the stones were from the size of a pea to 6 and 3-8 inches in circumference and 4 inches in diameter; some damage to wheat southeast of here. All crops doing well, but too much rain for cultivation.

Harrisonville—There were no storms this month, other than thunderstorms.

Lamonte—Corn is grassy and needs dry weather and sunshine. Wheat lodging considerably. Oats fair and pastures good.

Nevada—There was hail on the 15th, but no material damage.

Warsaw—The Osage River went to 23.2 feet, 1.2 feet over flood stage; some damage in the bottoms.

Avalon—Meadows are doing well. Wheat and oats have made rank growth. Rather too wet for corn. Wheat in bottoms nearly ruined by overflow.

Grant City—The month was unfavorable for farm work. Excessive rains delayed plowing and planting, but is now nearly completed. A good stand of corn, and wheat excellent; pastures and meadows good.

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CLIMATOLOGICAL DATA

MISSOURI SECTION

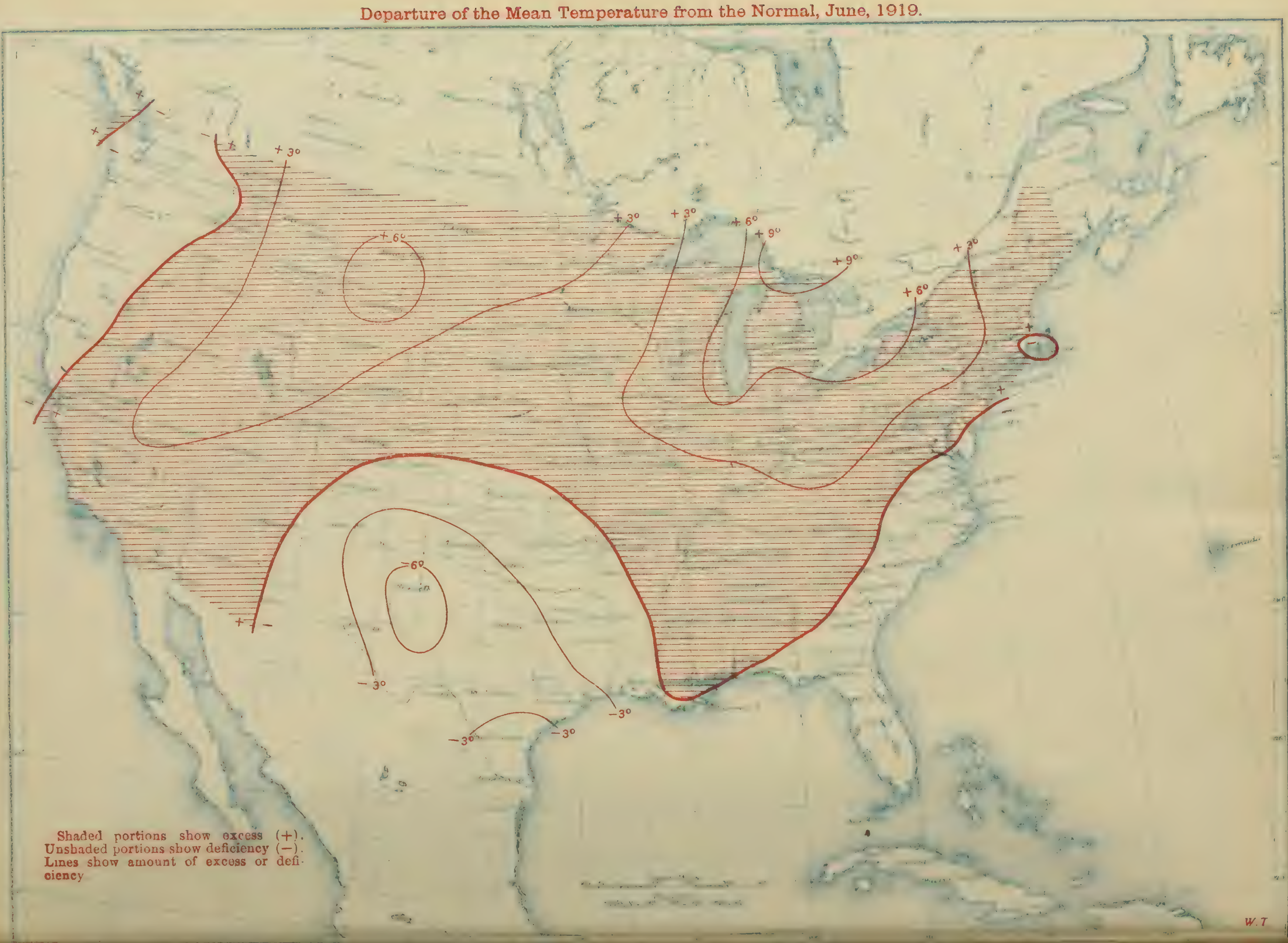
IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

JUNE, 1919

BY
GEORGE REEDER
METEOROLOGIST

COLUMBIA, MO.,
WEATHER BUREAU OFFICE
JULY 25, 1919.

Departure of the Mean Temperature from the Normal, June, 1919.



Shaded portions show excess (+).
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXIII. Columbia, Mo., June, 1919. No. 6

GENERAL SUMMARY.

The weather of June, 1919, in Missouri, did not vary a great deal from the usual. The first week, and the last three days were cooler than the normal, but the remainder of the month was uniformly warmer than normal. The sunshine and wind movement varied but little from the average values. In some respects it was a rainy month; it was excessively wet in some localities, moderately so in others, and relatively dry in a few. Showers, however, fell almost daily in some part of the State; the evaporation, though, was large and quite steady.

Most of the Missouri River tributaries were out of banks for a short period during the first ten days of the month, but the Missouri itself remained within its banks. A few local wind and hailstorms occurred. (For detail report on storms see last page.)

There was rather too much rain, as a rule, for best wheat results, and some corn in bottoms was abandoned because of rank weed growth; at the close of the month, however, the general crop condition was very good, while pastures and meadows were in a highly satisfactory condition.

TEMPERATURE.

The monthly mean temperature for the State, based upon reports of 62 stations, was 75.0°. The mean departure from the normal for 61 stations having 10 or more years' record was plus 1.9°. The month was warmer than usual in all sections, but the temperature was least marked in the Ozark Plateau and southwestern plain than elsewhere. The greatest excess, averaging about 4° a day, occurred at stations along the eastern side of the State from Caruthersville, Pemiscot County, to Steffenville, Lewis County, though the extreme northwestern and many northeastern stations also experienced quite marked excesses. At Caruthersville the day temperature reached 90° or higher on 25 days, and 100° or higher on 4 days, 15th to the 18th, inclusive. Several scattered stations recorded 90° or higher on but 2 days, and others from 3 to 5 days. June, 1918, averaged about 2° warmer than the present month, while the maximum was 110°, as compared with 104° this June.

PRECIPITATION.

The average precipitation for the State, 74 stations reporting, was 5.59 inches. The mean departure from the normal for 71 stations having 10 or more years' record was plus 1.11 inches. The precipitation was unevenly distributed. From about Greene County to St. Louis County it was less than 4 inches; also along the Mississippi River to the Iowa border, except Lewis County; and in Cass and Bates counties it was less than 3 inches; elsewhere the monthly amounts ranged from over 5 inches to more than 10 inches, the greatest falls occurring in Henry and Vernon counties. The greatest amount falling in any 24 consecutive hours was 4.21 inches, at Trenton on the 19th; at eight stations 2.50 inches or more fell in less than 24-hour periods.

There was some flood damage in the Grand, Chariton, Meramec, Current, Black and Neosho watersheds during the first 10 or 12 days of the month.

WIND.

The prevailing wind was from the south. The average wind movement was 5,283 miles, 7.3 miles per hour, or about 10 per cent less than normal. Strong local winds occurred on the 8th, 16th and 26th. (For more detailed report on storms see page 48.)

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, based upon the reports of 6 well selected stations having sunshine records, was 316, or about 73 per cent of the possible and about 3 per cent above normal.

MISCELLANEOUS PHENOMENA.

Hail--8th, 17th and 18th. Halos, solar--21st, 27th, 28th and 30th. Lunar--7th, 8th, 9th and 10th.

Thunderstorms, general--1st, 2d, 8th, 9th, 10th, 16th, 17th, 18th, 19th, 21st and 22d. Local--3d, 6th, 11th, 12th, 13th, 20th, 23d, 24th, 25th, 26th, 27th and 30th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.98	86	......	328	73	4,178	5.8	33	ne.	24
Hannibal	30.00	82	......	......	......	4,723	6.6	43	ne.	18
Kansas City	29.97	81	62	311	70	6,370	8.8	50	n.	26
St. Joseph	29.97	85	66	288	64	4,668	6.5	51	nw	26
St. Louis	30.01	78	62	297	67	7,552	10.5	69	sw.	16
Springfield	30.00	86	69	310	70	5,788	8.0	37	se.	26
Cairo, Ill	30.01	86	72	......	......	4,749	6.6	59	sw.	8
Keokuk, Iowa	30.02	81	64	365	79	4,239	5.9	26	se.	11

COMPARATIVE DATA FOR JUNE.

Year.	Temperature.				Precipitation.				Number of Days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	72.6	−0.5	103	37	6.20	+1.26	......	0	7	....	....	....
1889	70.7	−2.4	100	38	4.66	−0.28	......	0	6	....	....	....
1890	77.2	+4.1	105	50	2.59	−2.35	......	0	6	....	....	....
1891	73.3	+0.2	103	46	6.94	+2.00	......	0	13	....	....	....
1892	74.5	+1.4	100	38	3.18	−1.76	4.25	0	7	15	9	6
1893	72.6	−0.5	98	42	4.61	−0.31	3.60	0	9	12	12	6
1894	74.5	+1.4	105	30	3.92	−1.02	3.48	0	7	16	11	3
1895	73.2	+0.1	100	42	5.77	+0.83	3.85	0	10	12	11	7
1896	72.5	−0.6	101	45	8.32	+3.38	5.60	0	9	12	11	7
1897	73.6	+0.5	102	38	6.18	+1.24	6.40	0	12	9	14	7
1898	75.3	+2.2	100	42	5.88	+0.94	8.15	0	9	13	12	5
1899	74.3	+1.2	101	42	3.87	−1.07	4.48	0	9	15	10	5
1900	73.3	+0.2	103	44	4.79	−0.15	5.06	0	10	12	12	6
1901	77.9	+4.8	110	40	2.13	−2.81	2.99	0	6	18	10	2
1902	70.9	−2.2	100	37	6.57	+1.63	6.08	0	12	11	10	9
1903	67.3	−4.2	95	36	3.25	−1.69	4.90	0	9	15	9	6
1904	70.5	−2.6	93	45	6.42	+1.58	5.41	0	11	12	12	6
1905	75.2	+2.1	103	42	3.09	−1.85	4.80	0	7	15	10	5
1906	72.7	−0.4	101	40	4.95	+0.01	4.07	0	10	15	9	6
1907	71.2	−1.9	97	40	5.84	+0.90	3.90	0	11	14	10	6
1908	72.3	−0.8	98	43	6.30	+1.36	5.30	0	11	13	10	7
1909	73.9	+0.8	98	49	5.21	+0.27	4.12	0	11	11	13	6
1910	70.4	−2.7	99	38	3.92	−1.02	3.70	0	8	16	7	7
1911	78.9	+5.8	112	43	1.78	−3.16	2.07	0	6	18	8	4
1912	69.5	−3.6	100	42	4.78	−0.16	5.60	0	9	14	8	8
1913	75.4	+2.6	107	33	2.57	−2.22	3.05	0	6	18	8	4
1914	79.3	+6.2	106	43	2.37	−2.29	3.50	0	5	18	7	5
1915	70.8	−2.5	98	38	6.51	+1.87	4.86	0	12	11	10	9
1916	70.0	−3.2	100	42	6.99	+1.17	6.75	0	10	14	9	7
1917	71.0	−2.3	103	35	3.78	−0.59	4.19	0	8	19	7	4
1918	77.2	+3.9	110	48	3.15	−1.36	4.28	0	7	17	8	5
1919	75.0	+1.9	104	44	5.59	+1.11	4.21	0	11	11	10	6

SUPPLEMENTAL TABLE OF DATA.

Stations.	Length of record, years.	Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
		Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Arlington	15	4.93	+1.39	1.50	0	10	22	0	8	......	Wm. R. Bennett.
Boonville	41	5.43	−0.10	1.57	0	14	19	3	8	se.	C. Randecker.
C. Girardeau	11	7.42	+3.79	3.06	0	12	16	1	13	s.	D. L. Albert.
Glencoe	1	2.58	....	1.30	0	6	22	4	4	......	L. M. Beard.
Hermann	44	3.39	−1.20	1.10	0	9	22	3	5	e.	W. E. Crawford.
New Madrid	24	9.14	+5.16	1.92	0	13	14	6	10	w.	Miss Josie Smith.
Osceola	18	9.18	+4.52	2.87	0	15	15	2	13	....	Wm. E. Mathews.
Pacific	1	3.14	....	1.53	0	7	18	7	5	......	Mark Waters.
Steelville	16	5.38	+1.16	1.26	0	9	24	0	6	s.	A. Kreamelmeyer.
Tuscumbia	1	6.66	....	2.52	0	13	12	4	14	w.	C. B. Wright.
Union	1	3.29	....	0.61	0	12	16	3	11	sw.	J. Wm. Keller.
Valley Park	1	3.11	....	0.80	0	6	18[a]	8[a]	3[a]	......	T. W. McNeese.
Waverly	3	9.16	....	3.08	0	12	21	2	4	sw.	J. W. Cauthorn.

Climatological data for June, 1919.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	37	75.7	+2.9	96	24	51	4	28	5.63	+0.14	1.30	0	13	22	2	6	se.	Louis Benecke.
Clifton Hill	Randolph	751	20	76.4	+4.1	96	25	55	1	30	3.65	−1.91	1.00	0	16	11	14	2	....	L. S. Harlan.
Columbia	Boone	784	30	75.1	+0.6	91	24	53	4	27	3.96	−0.42	1.60	0	12	10	17	3	se.	U. S. Weather Bureau.
Fayette	Howard	725	32	75.6	+2.4	94	25	60	2	26	5.11	+0.42	1.60	0	9	..	...	...	.....	Prof. L. J. Abernathy
Fulton	Callaway	818	13	75.4	+2.1	93	25	53	4	28	4.21	−0.47	1.35	0	13	14	13	3	sw.	Prof. Geo. B. Sweazey.
Gorin	Scotland	700	28	......	......	......	......	......	......	......	1.91	−1.85	0.46	0	8	6	10	14	ne.	J. W. Fulham.
Hannibal	Marion	534	21	76.0	+2.5	94	17	57	7	25	3.41	−0.11	1.54	0	12	12	15	3	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	31	75.6	1.6	94	25	53	4	27	5.83	+1.79	1.20	0	12	21	6	3	s.	Miss Emma Swift.
Keytesville	Chariton	660	4	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	J. T. Dewey, M. D.
Kirksville	Adair	969	25	73.4	+1.5	90	18†	52	5	26	2.76	−1.63	0.45	0	11	18	12	0	s.	Prof. Mark Burrows.
Louisiana	Pike	409	39	74.8	+3.1	93	21†	54	5†	33	3.76	−0.29	1.68	0	10	24	4	2	e.	J. T. Farrell.
Macon	Macon	875	19	75.0	+2.6	94	17†	53	4†	30	4.47	−0.28	0.91	0	11	18	6	6	sw.	W. C. Brown.
Mexico	Audrain	797	39	75.8	+2.2	98	24	53	4†	33	6.94	+2.00	2.10	0	9	21	4	5	e.	Mrs. Abbie Snoddy.
Oakfield ‡‡	Franklin	793	36	75.8	+1.9	94	25	56	4	25	3.61	−0.92	1.77	0	9	5	22	3	s.	E. E. Steines.
Palmyra	Marion	662	17	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	W. B. Markell.
St. Catherine	Linn	850	8	73.6	......	93	24	52	5	29	7.11	......	2.32	0	11	9	19	2	s.	L. D. Baker.
St. Charles	St. Charles	456	39	77.4	+3.4	95	18	57	6	29	3.03	−1.13	1.71	0	5	12	17	1	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	46	77.3	+2.2	92	25	60	5	23	5.30	+0.83	2.04	0	12	9	19	2	s.	U. S. Weather Bureau.
St. Louis (2)	do.	578	7	77.0	+2.4	92	16†	60	6	25	3.80	−0.24	0.92	0	11	16	17	3	se.	St. Louis University.
Shelbina ††	Shelby	779	25	......	......	......	......	......	......	......	2.59	−2.50	1.06	0	7	......	......	......	......	S. G. Parsons.
Steffenville	Lewis	650	21	76.4	3.6	98	25	54	7	35	4.45	+0.28	1.60	0	8	11	17	2	w.	Frank Hall.
Unionville	Putnam	1,072	24	73.4	+1.4	93	26	50	5	31	5.20	+0.78	1.60	0	11	12	6	12	s.	Geo. W. Davis.
Warrenton	Warren	865	26	75.9	+2.5	95	25	55	4†	27	4.93	−0.58	1.21	0	10	6	18	6	s.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	46	75.8	+3.3	93	19	56	28	26	2.58	−1.97	0.84	0	7	10	17	3	se.	U. S. Weather Bureau.
Section means and	extremes			75.6	+2.4	98	25	50	5	35	4.36	−0.22	2.32	0	10	13	13	4	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	26	82.0	+4.5	101	16†	59	5	31	4.22	+0.34	1.85	0	12	23	3	4	e.	H. E. Averill.
Doniphan	Ripley	344	12	76.2	+1.5	94	16	53	4	30	7.02	+2.58	3.50	0	11	14	8	8	sw.	W. W. Martin.
Jackson	Cape Girardeau	458	26	76.3	+2.2	94	9†	54	6	33	8.90	+4.68	3.00	0	11	5	16	9	s.	L. M. Bean.
Marble Hill	Bollinger	420	25	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	W. A. Kinder.
Patton (near)	Bollinger	500	3	......	......	......	......	......	......	......	1.40	......	2.05	0	7	......	......	......	......	George F. Ellis.
Poplar Bluff	Butler	339	13	77.0	+1.5	95	15†	55	5	28	6.08	+0.76	1.98	0	10	15	5	10	......	Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill	359	11	78.0	+2.8	93	17	62	7	25	4.61	+0.30	1.28	0	11	6	13	11	se.	U. S. Weather Bureau.
Section means and	extremes			77.9	+2.5	104	16†	53	4	33	5.87	+1.73	3.50	0	10	13	9	8	......	
Ozark Plateau.																				
Arcadia	Iron	925	39	74.5^{a}	+2.5	96	25	54	6	30	3.13	−1.66	0.76	0	10	13	6	11	s.	Arcadia College.
Birchtree	Shannon	1,078	23	71.2	+1.5	92	16†	49	4	30	6.14	+1.58	1.45	0	8	21	5	4	s.	V. H. Kirkendall.
Bolivar	Polk	1,071	29	75.0	+2.3	95	17	48	4	29	5.54	+0.44	1.74	0	13	7	19	4	sw.	K. H. Brown.
Cassville	Barry	1,475	20	73.2	+0.7	91	25	44	4	31	4.21	+0.68	1.12	0	18	3	20	7	s.	R. H. Wallen.
Dean ‡‡	McDonald	1,000	20	74.1	+1.1	98	10	48	4	32	6.10	+1.03	0.98	0	18	16^{a}	2^{a}	11^{a}	w.	H. E. Dean.
Eldon	Miller	934	20	69.2	−4.2	90	25	47	4	26	3.81	−0.66	2.50	0	9	5	20	5	e.	E. H. Shepherd.
Farmington	St Francois	918	8	77.4	+5.4	96	12	57	5†	36	4.86	−0.20	1.49	0	10	8	20	2	sw.	Robert Forsyth.
Gano ‡‡	Dent	1,250	13	73.7	+0.8	91	16†	48	4	28	7.58	+3.04	2.95	0	14	17	9	4	se.	A. C. Leach.
Goodland ††	Iron	1,000	12	73.6	+1.5	91	16†	50	6	33	5.95	+1.68	1.80	0	10	9	19	2	s.	F. M. Adams.
Hollister	Taney	735	33	......	......	......	......	......	......	......	8.29	+4.42	1.30	0	13	16^{a}	0^{a}	13^{a}	sw.	W. P. Chapmann.
Houston	Texas	1,280	21	71.2	+2.0	92	16†	50	4	28	5.62	+0.79	1.45	0	8	18	9	3	se.	R. F. Harmon.
Koshkonong	Oregon	958	18	75.6	+1.3	93	18	51	5	26	8.26	+4.01	2.25	0	12	9	13	8	sw.	R. M. Hitt.
Lebanon	Laclede	1,265	28	71.1	−2.2	90	16†	49	4†	26	3.27	−1.82	1.40	0	12	20	7	3	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	22	74.3	+0.1	91	18†	48	4	28	3.99	−0.94	1.25	0	11	15	10	5	se.	C. S. Crow.
Mountain Grove	Wright	1,490	20	72.6	+1.0	91	16	47	4	28	9.49	+5.68	2.68	0	13	11	15	4	s.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	34	71.2	+0.3	92	25	46	4	32	8.85	+3.46	2.01	0	17	11	18	1	sw.	W. O. Buck.
Rolla	Phelps	1,139	35	75.3	+2.6	90	17†	51	4	26	6.77	+2.65	1.50	0	13	12	17	1	s.	Prof. Elmo G. Harris.
Springfield	Greene	1,360	30	73.6	+1.3	89	25	50	4	23	4.00	−1.19	1.29	0	14	15	11	4	se.	U. S. Weather Bureau.
Section means and	extremes			73.9	+1.0	98	10	44	4	36	5.89	+1.22	2.95	0	12	13	12	5	s	
Southwest Plain.																				
Amoret	Bates	831	12	73.9	+0.3	96	25	46	4	33	2.43	−1.57	0.47	0	12	13	8	9	s.	Darby Fruit Farm.
Appleton City	St. Clair	853	26	75.2^{a}	+0.3	93	25	49	4	29	6.61	+1.57	1.35	0	14	13	14	3	se.	W. G. Bigelow.
Clinton	Henry	765	30	75.7	+2.4	96	18	49	4	33	8.04	+3.31	2.10	0	10	14	13	3	se.	A. E. Derwent, M. D.
Harrisonville ††	Cass	912	44	74.0	+0.6	98	25	49	4	33	2.47	−2.05	0.90	0	10	15	3	12	s.	A. J. Sharp.
Lamar	Barton	980	36	75.0	+0.6	94	18	47	4	27	6.67	+1.66	2.30	0	16	9	14	7	s.	Joe W. Springer.
Lamonte	Pettis	863	30	74.6^{c}	+0.2	96	25	51	4	32	6.70	+2.22	2.00	0	8	7^{c}	17^{c}	3^{c}	e.	J. Ed. Hall.
Marshall	Saline	779	29	75.4	+2.6	96	25	50	4	28	5.11	+0.73	1.43	0	10	12^{a}	15^{a}	2^{a}	sw.	Dr. W. H. Black.
Nevada	Vernon	860	25	74.3	+0.7	91	17†	48	4	35	10.69	+5.65	2.00	0	16	13	11	6	s.	George A. Kaupp.
Warrensburg	Johnson	883	38	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	Geo. H. Collins.
Warsaw	Benton	715	20	75.3	+1.6	94	25	48	4	27	7.55	+2.37	1.50	0	14	13	15	2	e.	J. R. Smith, M. D.
Section means and	extremes			74.9	+1.1	98	25	46	4	35	6.72	+1.99	2.30	0	12	12	14	4	s.	
Northwest Plateau.																				
Avalon	Livingston	730	31	76.6	+3.5	98	25	52	4	28	5.20	+0.64	2.80	0	6	15	12	3	sw.	F. G. Ashbaugh.
Bethany	Harrison	916	27	75.0	+3.1	95	25	51	5	29	6.56	+2.32	2.58	0	8	7	10	13	se.	M. H. Moulton.
Chillicothe ††	Livingston	768	10	75.9	+2.1	98	24†	51	4†	31	3.35	−2.56	1.25	0	5	24	0	6	se.	R. L. Isherwood.
Conception	Nodaway	982	32	74.4	+3.3	96	24	50	2†	28	6.64	+2.19	1.41	0	13	4	21	5	ne.	Fr. Adelhelm Hess.
Gallatin	Daviess	803	17	......	......	......	......	......	......	......	7.96	+2.93	2.11	0	11	12	14	4	s.	Robert R. Wynne, Jr.
Grant City	Worth	1,134	24	74.3	+3.4	93	17	51	2†	27	7.15	+2.77	1.58	0	13	11	12	7	sw.	W. H. Campbell.
Kansas City	Jackson	963	28	75.2	+2.2	97	25	50	4	24	5.09	+0.43	1.27	0	12	11	15	4	s.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	26	73.4	+1.3	93	24	50	5	26	8.06	+3.67	2.15	0	17	20	6	4	se.	J. F. Sharp.
Lexington	Lafayette	688	35	75.7	+3.0	97	24†	50	4	26	4.15	−0.69	1.20	0	9	20	0	10	s	J. W. Keithley.
Liberty	Clay	864	28	76.4	+2.7	97	24†	52	5†	36	5.32	+0.41	1.65	0	8	15	9	6	s.	W. C. Wilmott.
Maryville	Nodaway	1,036	26	72.0	+3.1	96	25	48	3†	29	6.95	+2.41	1.19	0	15	16	4	10	s.	J. R. Brink.
Oregon	Holt	1,048	61	72.9	+0.6	95	24†	47	2	29	6.47	+1.73	1.89	0	10	8	17	5	se.	Tom Curry.
St. Joseph	Buchanan	967	45	75.0	+1.1	96	24	51	2	25	4.97	+0.29	1.53	0	13	11	14	5	se.	U. S. Weather Bureau.
Tarkio	Atchison	976	17	73.4	+0.6	95	25†	49	2	30	5.50	+0.54	1.45	0	16	12	12	6	se.	John F. Frazier.
Trenton	Grundy	822	22	74.9	+2.5	92	27	51	29	33	7.86	+3.87	4.21	0	11	18	8	4	se.	W. H. Estes.
Section means and	extremes			74.6	+2.3	98	24†	47	2	36	6.28	+1.68	4.21	0	12	13	11	6	se.	
State means and	extremes			75.0	+1.9	104	16†	44	4	36	5.59	+1.11	4.21	0	11	14	10	6	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports ar used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

† Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Oakfield, Pacific, R. F. D No. 1; of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily precipitation for June, 1919.

Stations.	Watersheds.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville	Missouri	.65	03	1.57	1.18	.20						.14	.05	.04		.10				.32	.06			.95		.09			.05				5.43
Brunswick	Grand	.16	30	1.30	1.14	.25						.03	.18	1.12	.07				.20	.20		.48							.20				5.63
Clifton Hill	Chariton		1.00	60	.60	.15					.10	.36						.05		.40			.01					.38					3.65
Columbia***	Missouri		1.33	.82	.28						.32	T.	.10	.01	.18			T.	.17	.02			.30		.24			.19					3.96
Fayette	do		1.60	.95	.70						.05	.01										.80	.50		.20			.30					5.11
Fulton	do	.02	.51	1.35	.41	.41				T.	.03	.43		.03					T.	.40			.02	.15		.45			.03				4.24
Glencoe	Meramec			1.30	.35														.38	.10	T.	.05		.40									2.58
Gorin	Mississippi		.46	.27	.40		.09						.01								.26	.12	.30										1.91
Hannibal***	do	.08	1.44	.21	.29	.15			.14	.10			.03						.64	.22		.01	.10		T.								3.41
Hermann ‖	Missouri		.02	.90	.70	.09				T.	.10	.23									.22			1.10		.03							3.39
Jefferson City	do	.70	.50	1.20	.28	.51						.72		.25						.04				.76		.31	.45		.11				5.83
Keytesville	Chariton																																
Kirksville	Mississippi		.46	.37	.55	.18			.13			.61	.02	.02	T.	T.			.14	.20		T.	.08										2.76
Louisiana	do	.18	1.68	.34	.78	.16			.06			.01							.36			T.	.03	.16									3.76
Macon	Chariton	.19	.91	.35	.68	.30			.27				.81	.05		.02					.38			.51									4.17
Mexico	Mississippi		2.10	.80	.46	.50						.75								.04	1.50			.09		70							6.94
Oakfield	Meramec	T	.57	1.77	.14				T.		.11	T						.08	.20	.13		T.	.27	.34									3.61
Pacific	do	.06	.03	1.53	.76					.06											.17			.53									3.14
Palmyra	Mississippi																																
St. Catherine	Grand	.04	.35	.56	1.92	.02					.07	.36	.14					1.13		2.32		T						.20					7.11
St. Charles	Missouri	T.	T	.73					T.			.29							.10			T.	.20	1.71									3.03
St. Louis (1)***	Mississippi		.37	.77	.12	T.	T.		.03			.33				.33	.82	1.22	T.	.04			.60	.62	.05								5.30
St. Louis (2)	do		.14	.89	.03		T.		.04		.07					.03	.45	.90	T.	T.			.24	.92	.08								3.80
Shelbina	do		1.06	.10	.55	.10														.28		.20	.30										2.59
Steffenville	do		1.10	.55	T.	.45			.30		T.	T.	.40		.03				T.	.02		T.	1.60										4.45
Union	Meramec	05	.03	.37	.53	.02				.40		.15	.01							.08	.59	.61		.45									3.29
Unionville	Chariton	.50	.30	1.25	.35	.04			T.		T.	.30	.35		T.			.35	.90	.20	T.	.66	T.										5.29
Valley Park ‖	Meramec		.03	.73	.80						T.								.58	T.	.47			.50									3.11
Warrenton	Mississippi	.24	.01	.72	1.21	.03					T.	76				T.			.34	.05	.83			.74									4.93
Keokuk, Iowa***	do		.74	.44	.79	T.	.04						T.							.17	.03	T.	.17										2.38
Southeast Lowlands.																																	
Cape Girardeau	Mississippi		53	.12	3.06			.24		.01		.08					.64				.82	1.10		.32	.22		.28						7.42
Caruthersville	do	.03	.72	.14	.10			.23	T.	T.	T.	.18					.12			.05	.31	T.		1.85				.33		.16			4.22
Doniphan	Black	.05	.05	3.50			.26	.29	T.	T.	T	.82	.15							T.	.85	.60		.35			.10						7.02
Jackson	Mississippi	.65	.25	3.00			.07		.46		.07	.20								.75		1.55			1.20	70							8.90
Marble Hill	do																																
New Madrid	do		.70	.02	1.92			.85		.60		.50	.35					.15			1.60	.25		1.65	.50						.05		9.14
Patton (near)	do			2.05	.08														.35	.23			.15	.42			1.12						4.40
Poplar Bluff ‖	Black	T.	.30	.95	1.98			1.10	T.	T.	T.	.03	T								T	T.	.29	.85	.24		.07	.27					6.08
Cairo, Ill***	Mississippi	.26	.02	.49	.54		.34	.49	1.28		T.									.93	.02		.18	06		T							4.61
Ozark Plateau.																																	
Arcadia	St. Francis		.18	.66	.76		T.	T.			T.	.22	.06							.07	.48	.21	T.	.16			.33						3.13
Arlington ‖	Gasconade	T.	T.	1.59	.47	T.	.15					.81									.68	.19	T.	.58	.10	.10	.11	T.					4.93
Birchtree	Black		1.25	1.45				.65				.10								.73			.20	1.36			.40						6.14
Bolivar	Osage		1.74	72	.18	T.	.20							.32	.02				.20	T.	.06	.86	.14				.18		.80		.12		5.54
Cassville	White		.32	.10	.01			.65	.09			.03		.05	.23	.02	.07			1.12	.06	.02	.40	.07			.55		.08		.34		4.21
Dean	Neosho		83	.13			.34	.19	.04	.03	.08		.01	.10	.05						.84	.21	.08	.98			.50		.15	.93	.91		6.40
Eldon	Osage		35	2.50	.23										.15					.11		.09	.24	.02				.12					3.81
Farmington	St. Francis	T.	.04	1.49	.20		T.		.57	T.	.18									.95	.10	T.	.09	.08		1.16							4.86
Gano	Meramec		.42	1.23	.66		.05		.10		.12	.18							.50	1.01			.12	.19		T.	2.55	.40	05				7.58
Goodland	Black		.10	1.80							.40	1.40					.10		.70	.82	.40		.18	.05									5.95
Hollister	White	.20	.30	.70			.56	.65	.34				.46	.48		.44	.42				1.20				1.24				1.30				8.29
Houston	Gasconade		1.10	1.33				T.			.30	T							.35	1.45	T	T	.22	.02			.85		T.				5.62
Koshkonong	Black			2.10				.20			.46	.04		.06						.70	.58	.76	.50	2.25			.26				.35		8.26
Lebanon ‖	Osage		.09	.90	.18	.27	.07									.10				.02	.07		.03	.06	.08		1.40		T.	T.			3.27
Lockwood	do			.33	.01		.05			.02		.39	.14		.24								.93				1.35		.18		.35		3.99
Mountain Grove ‖	White		1.28	2.68	.22	.07		.38								.18				.08	04	.20	.08	2.65	.35		1.28						9.49
Neosho	Neosho		.21	.20	.01		T.	.75	.07	2.04	.15	.40		.80	.08			T.			.61		.61	.07			1.40		.16	1.10	.19		8.85
Rolla	Meramec	.30	.10	1.33	.44	.44					.89					.48				.06	1.50	.62		.43	.07		.11						6.77
Springfield***	White		.61	.21	07		.04	T.		.01	.18	T.		.06	T.			T.	.03		.03	1.23	.06	.45			.62		.40				4.00
Steelville ‖	Meramec			.80	1.13							.31								.04	1.00		.52	.12	.20		1.26						5.38
Tuscumbia ‖	Osage	.04	.05	1.50	.66	.52	.04					T.		.05		T.				.07	2.52		.08	.75			.29	T.	.09				6.66
Southwest Plain.																																	
Amoret	Osage	.25	.26	.11	.03					.30	.24	.47	T	.07	.09						.08		.31						T.		.22		2.43
Appleton City	do		1.35	.21	.24		.01			.02	.24	.09	1.02	1.06	.16						.57		.35				1.27				.02		6.61
Clinton	do		2.10	1.40	.30								1.70	.65	.17				.18				.72				.70	.12					8.04
Harrisonville ‖	do		.92	.54	.14	T.					.06	.27	.04		.03	.18		T.	T.					T.			.30		.01				2.47
Lamar	Neosho		.52	.07	.09	.11	.37			.10	.07	.58	.29	2.30		.08							.45	.55			.28	.29		.52			6.67
Lamonte	Missouri	T.	.82	1.65	.40						.22	T.	.45	T.				T.	T.			.37					T.	2.00			.79		6.70
Marshall	do		.44	1.43	1.05						.40	.15	.30						T.	.34		.20	.15					.65			T.		5.11
Nevada	Osage		1.95	.22	.21		.04			.20	.80	.04	1.82	.42	.01					.68		2.00	.55				1.18		.12		.45		10.69
Osceola	do		2.87	.53	.23	.22	.13						.93	.44	.25	.43		1.10			.44	.47		.09			.47		.58				9.18
Warrensburg	Missouri																																
Warsaw ‖	Osage		1.15	1.25	.55	.50	.05				T.	.20	.52	.58	.32				.25	T	1.50		T.				.15		.25		.28		7.55
Waverly ‖	Missouri	.06	.62	1.49	.67	.54						.29		.18	T.				.06				3.08	1.82			T.		.35				9.16
Northwest Plateau.																																	
Avalon	Grand	.15	1.80	1.00							.65										.80										.80		5.20
Bethany	do	.60	2.58	1.80	.37	T.	T.	T.	T.	T.	T.	.55		T.	.11	T.	T.	.15		T.		T.	.40					T.					6.56
Chillicothe ‖	do		.30	.20	.70							.90																	1.25				3.35
Conception	Missouri	1.17	1.00	1.41	.31	T.	.04		.07	.11	.60	.72		T.	.25	T.						.10					.52	.34			T.		6.64
Gallatin	Grand	T.	1.72	2.11	.33				.02	.02	1.05	.12			T.	T.		.45		.41		.93	T.				T.	.80	T.		T.		7.96
Grant City	do	1.25	1.58	1.48	.36	T.			.20	.07	.17	.45	T.	.30	.17	T.				.15			.63					.34			T.		7.15
Kansas City***	Missouri	.54	.89	.36	T.					86	T.	.84		.05	.03		T.		.11	T.		T.	.73				.64	.01			.03		5.09
Kidder ‖	Grand	.03	2.15	1.90	.35	02				.62	.15	.77	.30			.07			05	.85	.18		.10	.12			.08		.32				8.06
Lexington ‖	Missouri		1.20	1.12	.47	.21								.06	.03									.26			.10		.70				4.15
Liberty	do	T.	1.65	1.00	.20					.40	T.	.14		T.			.20						.35				1.38						5.32
Maryville ‖	do	1.00	.51	.64	1.19	.25	.17			T.	.18	.16	1.15		.13	.03		.07		T.	T.			.87			.58		.02				6.95
Oregon	do	.20		1.75	.21	T.				.13		1.25			.20		.35			.45	T.						1.89	.04					6.47
St. Joseph***	do	.54	1.03	.32	.31	T.				.21	.71	.84		.11	.04					T.			.16				.19	.02			.49		4.97
Tarkio	do	1.45	.05	.70	.35	.29	.12			27	.06	1.32	.01		.30	.06	.01						.01				.49	.01					5.50
Trenton	Grand	1.50	.46	1.10	.08	.01					.11	.06			T.		T.	.18		4.21		T.	T.					.07			.08		7.86

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. **Precipitation in the next following measurement. ‡ Separate dates of fall not recorded

Daily temperatures for June, 1919.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	87	70	75	72	70	75	81	88	83	85	83	86	85	86	89	92	88	93	88	90	89	86	92	96	95	92	90	80	85	88	....	85.3
	Minimum	67	64	66	54	55	56	58	60	66	68	69	69	67	69	67	61	71	69	69	67	69	71	69	69	74	74	72	65	63	66	....	66.1
Columbia	Maximum	86	72	76	75	69	75	79	87	83	84	83	89	86	83	87	90	89	90	88	88	88	84	89	91	91	89	89	78	84	86	....	81.3
	Minimum	69	65	59	53	55	58	58	63	67	68	68	70	68	69	66	67	71	69	68	66	70	71	69	67	70	69	70	64	64	66	....	65.9
Fayette	Maximum	86	78	76	76	78	87	82	89	84	84	84	88	86	87	89	90	91	90	91	90	91	88	90	91	94	92	90	78	79	80	....	86.0
	Minimum	64	60	63	64	61	64	60	67	66	67	67	67	68	66	68	67	68	68	66	64	68	60	67	65	68	66	65	63	62	64	....	65.1
Hannibal	Maximum	86	74	75	75	71	74	78	83	86	87	84	89	89	88	90	91	94	91	90	89	88	88	90	93	91	90	86	76	84	88	....	85.3
	Minimum	68	66	65	58	57	57	57	61	67	69	70	72	70	69	68	68	70	68	69	67	72	71	72	74	75	71	67	61	63	63	....	66.8
Jefferson City §§	Maximum	86	70	78	75	70	80	83	88	86	88	83	88	88	86	92	92	92	91	90	89	90	86	92	91	94	88	92	79	85	89	....	86.0
	Minimum	67	66	65	53	56	58	57	61	64	64	66	67	66	68	65	65	69	70	68	67	68	69	68	69	68	67	70	64	64	65	....	65.1
Kirksville	Maximum	84	80	73	71	66	71	76	81	84	8[illegible]	81	83	86	81	86	88	89	90	87	86	86	86	88	90	89	89	88	77	83	87	....	83.0
	Minimum	64	61	60	53	52	56	54	59	63	66	61	66	66	62	65	67	6[illegible]	68	68	66	68	70	69	74	68	69	70	59	57	61	....	63.7
Louisiana	Maximum	84	80	75	75	74	74	78	83	84	82	84	87	86	89	88	90	88	92	91	90	92	90	90	93	93	90	92	84	83	90	....	85.7
	Minimum	65	63	65	58	54	55	54	60	62	62	64	70	66	65	64	63	65	70	68	67	68	67	68	72	72	68	67	60	58	57	....	63.9
Macon §§	Maximum	87	71	77	75	67	74	79	87	84	86	84	89	89	87	89	93	94	94	90	92	91	90	91	94	92	92	93	81	86	89	....	86.2
	Minimum	65	62	62	53	53	56	53	57	63	66	66	63	67	65	65	66	69	68	69	66	68	69	67	69	70	70	69	62	57	60	....	63.8
Mexico §§	Maximum	89	69	74	74	71	77	82	89	87	88	85	91	91	91	91	92	94	94	91	90	91	89	92	98	97	90	91	80	87	90	....	87.2
	Minimum	70	65	64	53	53	57	58	60	64	66	62	68	68	67	66	67	69	71	68	66	68	70	70	71	64	60	66	62	58	62	....	64.4
Oakfield	Maximum	83	77	74	75	75	79	81	89	87	84	81	89	88	87	89	91	91	91	91	86	87	89	90	92	94	89	87	79	84	89	....	85.7
	Minimum	67	66	65	56	59	58	58	64	62	64	66	68	70	68	68	70	69	70	68	64	68	69	70	70	71	67	71	61	64	66	....	65.9
St. Catharine	Maximum	84	79	75	70	66	73	78	83	83	82	79	80	85	83	85	89	90	88	86	85	86	88	87	93	88	88	90	77	80	85	....	82.8
	Minimum	66	59	60	53	52	55	53	60	64	67	65	67	67	67	66	66	67	67	67	66	68	70	68	72	71	71	70	60	61	63	....	64.3
St. Louis (1)	Maximum	84	84	81	78	75	79	81	85	88	85	87	90	89	90	91	91	89	90	87	87	89	86	89	91	92	89	87	79	80	90	....	86.1
	Minimum	70	67	67	61	60	61	63	69	66	68	71	71	73	71	71	68	69	73	72	69	71	71	71	70	71	73	68	62	66	71	....	68.5
Unionville	Maximum	85	78	76	74	66	73	78	83	86	87	81	84	88	86	89	91	90	92	89	91	90	88	91	90	92	93	88	80	84	88	....	85.0
	Minimum	60	56	55	52	50	53	54	56	62	64	65	66	65	67	66	66	68	66	65	64	66	68	66	65	64	68	66	58	53	60	....	61.8
Warrenton §§	Maximum	85	71	73	76	74	78	82	88	89	85	85	90	89	90	90	93	91	90	91	87	89	91	91	93	95	89	88	80	85	90	....	86.3
	Minimum	65	67	65	55	55	57	59	61	62	65	64	67	68	67	69	70	69	69	68	66	67	69	72	71	71	69	71	61	62	63	....	65.5
Southeast Lowlands.																																	
Caruthersville	Maximum	82	88	86	86	88	91	92	94	95	96	97	97	96	94	102	104	104	101	94	91	94	99	92	92	92	98	98	95	95	95	....	91.3
	Minimum	69	67	72	62	59	62	65	68	65	67	71	70	71	70	72	73	73	70	70	71	73	74	71	71	73	73	73	71	69	72	....	69.6
Doniphan	Maximum	84	82	75	78	80	86	85	83	90	88	85	89	89	89	91	94	93	92	89	85	86	91	86	88	91	92	92	88	86	88	....	87.2
	Minimum	65	66	68	53	57	56	60	62	66	64	66	61	65	65	64	66	68	70	70	68	68	70	70	70	72	68	70	61	60	68	....	65.3
Jackson	Maximum	83	88	82	83	81	86	87	92	94	83	81	81	81	88	91	94	94	93	90	84	93	90	88	92	93	89	87	86	82	88	....	87.5
	Minimum	66	63	68	63	56	51	62	63	61	62	67	65	66	65	64	60	68	68	70	69	67	72	61	71	73	65	69	65	64	66	....	65.1
Marble Hill	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Poplar Bluff	Maximum	80	83	73	79	81	81	82	89	92	87	89	91	91	90	95	95	95	93	90	84	90	94	86	88	92	91	93	85	86	88	....	87.8
	Minimum	66	67	68	57	55	58	61	63	62	62	66	66	68	66	67	70	70	71	70	69	68	71	71	70	71	66	70	65	64	69	....	66.2
Ozark Plateau.																																	
Arcadia §§	Maximum	82	81	70	75	77	81	86	89	89	81	85	87	85	87	90	92	90	88	87	84	88	86	83	89	96	90	88	83	83	....	....	[a]85.3
	Minimum	65	65	66	55	55	54	60	60	59	61	65	64	65	62	61	65	65	68	67	67	66	70	70	70	73	62	66	64	60	61	....	63.7
Birchtree	Maximum	82	75	74	74	70	83	84	87	88	82	81	86	83	85	90	92	92	90	86	83	85	85	7[illegible]	88	89	89	89	83	84	86	....	84.1
	Minimum	65	64	64	49	58	53	58	61	64	63	65	62	67	66	64	67	68	68	68	67	68	67	67	68	70	64	69	67	62	62	....	64.2
Cassville	Maximum	85	84	63	72	73	85	84	85	85	81	82	87	84	83	85	88	90	89	86	85	88	83	84	88	91	89	89	87	85	84	....	84.1
	Minimum	63	58	55	44	49	54	55	60	65	64	65	61	63	66	57	62	64	68	64	61	75	68	68	65	65	64	64	66	64	66	....	62.3
Eldon	Maximum	80	80	64	58	60	76	77	80	81	75	75	77	76	74	86	88	81	80	70	80	77	73	75	76	90	76	75	72	84	82	....	76.6
	Minimum	63	64	58	47	54	54	54	51	59	62	64	63	61	67	61	62	65	65	63	61	65	66	65	67	70	63	65	62	69	60	....	61.8
Farmington	Maximum	84	82	76	83	79	85	88	88	93	89	88	96	93	92	95	95	93	89	96	87	90	88	87	93	94	92	92	83	87	93	....	88.8
	Minimum	68	66	67	67	57	57	62	57	57	66	67	67	69	66	65	69	64	71	70	67	68	72	71	70	67	68	71	65	64	67	....	66.1
Gano	Maximum	86	73	73	76	73	80	85	83	83	87	83	89	89	88	90	91	91	90	88	88	87	85	83	96	91	88	87	79	84	88	....	84.9
	Minimum	60	61	65	48	55	56	57	61	59	61	63	63	65	63	63	65	65	66	64	62	67	68	67	66	68	62	67	62	60	64	....	62.5
Hollister	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Koshkonong	Maximum	86	74	75	77	75	85	82	86	90	86	84	88	90	86	90	92	92	93	86	87	81	86	80	87	90	89	89	85	85	86	....	85.4
	Minimum	66	66	63	58	51	59	60	62	64	64	66	67	64	67	66	70	69	72	68	69	71	69	69	68	69	68	71	67	68	63	....	65.8
Lebanon §§	Maximum	85	68	76	57	59	72	75	80	81	80	81	55	84	85	88	90	90	84	81	82	75	74	74	90	90	81	76	70	76	80	....	79.0
	Minimum	64	64	60	49	49	56	57	60	60	64	67	65	65	68	65	64	65	66	65	66	66	66	67	67	67	64	65	65	63	66	....	63.2
Mountain Grove §§	Maximum	82	68	73	72	71	82	81	83	84	81	80	85	82	82	88	91	96	87	89	88	86	85	82	87	89	86	89	80	83	....	....	[a]83.0
	Minimum	63	63	62	47	51	54	55	57	62	64	61	62	64	67	62	64	64	65	64	64	63	67	66	65	68	62	65	66	62	64	....	62.2
Neosho	Maximum	89	86	61	72	73	86	86	86	88	86	85	89	89	81	88	90	90	91	89	88	88	86	87	89	92	89	91	91	86	87	....	86.1
	Minimum	62	51	53	46	51	57	56	61	60	65	65	66	63	65	60	63	65	69	66	64	65	69	68	66	68	64	64	67	62	65	....	62.3
Rolla	Maximum	86	82	70	77	75	78	84	83	88	86	83	88	88	85	87	89	90	88	89	87	87	82	85	88	90	86	89	82	85	82	....	84.6
	Minimum	66	66	65	51	56	56	62	61	65	66	65	67	68	66	65	65	68	79	66	66	79	70	68	68	65	77	70	65	68	61	....	66.0
Springfield	Maximum	83	71	67	73	69	80	83	83	85	79	81	85	82	79	85	86	88	89	86	84	84	81	80	86	89	86	87	77	81	82	....	81.8
	Minimum	67	57	53	50	57	59	60	66	68	64	67	68	67	67	68	69	71	70	68	68	68	69	69	68	71	63	70	65	67	69	....	65.4
Southwest Plain.																																	
Amoret	Maximum	85	70	67	65	70	81	86	85	84	82	83	90	85	82	88	90	91	90	89	88	89	84	92	94	96	93	94	90	90	89	....	85.4
	Minimum	64	51	52	46	48	56	53	60	62	63	65	64	64	66	65	65	66	64	64	65	62	68	68	70	71	66	65	65	65	65	....	62.4
Appleton City	Maximum	87	81	65	65	71	80	85	87	87	86	84	82	86	83	87	90	91	....	91	88	90	85	91	91	93	91	92	84	85	87	....	[a]85.0
	Minimum	67	56	55	49	52	58	56	64	68	67	68	67	67	67	67	70	72	....	68	67	69	72	70	69	73	66	67	70	67	69	....	[a]65.4
Clinton	Maximum	89	79	69	68	74	80	86	88	90	85	85	82	87	83	92	94	95	96	94	91	92	91	92	92	94	92	93	86	88	89	....	87.2
	Minimum	66	57	56	49	50	52	55	62	65	65	67	66	66	67	64	65	65	71	66	67	69	71	68	69	73	67	69	69	65	67	....	64.2
Harrisonville §§	Maximum	88	61	69	65	69	79	84	86	82	84	83	87	86	82	86	89	89	90	90	88	90	87	83	95	98	90	93	82	85	85	....	84.2
	Minimum	60	52	53	49	50	54	51	60	58	64	67	65	68	68	68	66	69	69	65	66	69	68	70	70	74	67	69	68	65	68	....	63.7
Lamar §§	Maximum	88	60	62	65	71	84	88	88	87	84	85	89	88	85	88	91	93	94	89	90	90	85	90	91	93	89	91	80	86	85	....	85.1
	Minimum	65	58	55	47	51	57	61	63	64	65	66	66	64	68	64	67	72	72	68	67	67	76	69	66	70	66	68	68	67	68	....	64.8
Lamonte	Maximum	85	75	74	69	68	....	....	....	89	86	83	83	84	85	86	90	91	91	89	88	90	89	92	93	96	91	91	81	85	88	....	[c]85.6
	Minimum	57	59	58	51	52	....	....	....	60	63	66	65	63	64	65	64	78	67	65	64	62	67	67	61	71	69	66	65	63	65	....	[c]63.6
Marshall	Maximum	87	82	74	75	69	77	82	88	87	85	86	86	87	86	88	91	93	93	91	89	91	86	91	95	96	93	91	82	84	88	....	86.4
	Minimum	65	62	60	50	53	59	58	60	64	60	65	63	64	63	64	68	68	67	68	65	69	69	69	70	73	71	68	64	67	63	....	64.3
Warrensburg	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Warsaw	Maximum	88	80	75	70	70	80	85	87	86	87	85	88	87	83	89	90	92	91	90	87	90	88	92	93	91	90	92	81	85	87	....	86.1
	Minimum	64	60	58	48	52	59	54	60	62	68	69	67	64	67	64	64	67	69	67	67	68	70	68	70	75	68	66	69	65	65	....	64.5
Northwest Plateau.																																	
Chillicothe §§	Maximum	89	68	76	71	70	77	84	88	85	88	83	86	90	86	90	94	93	94	95	90	91	87	95	98	98	96	96	89	88	92	....	87.6
	Minimum	67	63	56	51	51	55	55	60	69	68	56	61	65	68	65	68	69	68	68	65	68	69	67	70	70	73	70	62	62	61	....	64.2
Grant City	Maximum	86	72	72	71	67	74	80	81	84	86	80	86	89	79	86	90	93	91	91	90	90	91	92	92	92	92	91	78	85	88	....	84.6
	Minimum	62	51	51	51	52	53	54	58	65	68	66	66	66	66	64	67	66	65	68	67	68	69	69	65	68	70	67	61	61	65	....	63.
Kansas City	Maximum	85	65	68	64	68	76	83	87	82	83	83	88	87	81	86	88	92	92	89	88	90	87	92	95	97	88	92	80	84	84	....	84.1
	Minimum	65	52	62	50	52	56	59	64	62	68	67	68	70	69	70	72	72	72	72	69	73	71	71	74	77	66	70	68	66	69	....	66.2
Kidder §§	Maximum	85	60	72	65	67	62	80	85	82	83	78	82	78	82	84	88	89	89	88	88	87	85	88	93	92	89	90	78	82	87	....	81.9
	Minimum	68	56	58	61	50	56	56	60	64	66	67	65	68	68	67	70	70	68	68	66	68	69	62	74	71	68	70	63	62	65	....	64.8
Lexington §§	Maximum	88	70	72	67	69	77	82	88	83	86	84	85	90	85	88	92	92	94	93	91	92	89	94	97	97	93	94	82	85	90	....	86.3
	Minimum	67	64	55	50	51	55	56	62	66	67	66	67	66	68	66	66	70	68	68	67	69	69	68	73	76	69	70	65	64	66	....	65.1
Maryville §§	Maximum	80	63	68	64	69	73	79	82	83	83	79	85	87	78	85	87	91	91	91	89	90	86	92	93	96	92	91	80	84	87	....	83.2
	Minimum	61	49	48	48	49	51	50	51	57	62	61	65	65	65	64	66	67	64	66	65	65	67	66	66	68	66	67	61	61	64	....	60.8
Oregon	Maximum	82	64	69	66	70	74	80	86	83	84	81	84	88	81	87	89	90	91	90	89	90	90	91	95	95	90	91	82	84	87	....	84.
	Minimum	60	47	49	48	49	50	51	58	60	63	64	65	65	65	65	64	66	67	68	66	67	67	67	71	69	64	68	62	62	65	....	61.
St Joseph	Maximum	84	60	71	64	67	74	81	88	85	84	83	87	88	81	88	88	92	92	92	91	89	87	94	96	95	91	92	82	86	89	....	84.
	Minimum	60	51	52	52	54	55	56	63	64	67	68	68	70	69	67	67	70	69	71	69	71	72	70	76	75	67	70	66	66	68	....	65.
Trenton	Maximum	85	78	78	72	70	73	77	84	83	84	82	84	89	84	87	91	91	90	90	87	88	87	91	91	90	90	92	89	84	89	....	85.
	Minimum	64	63	55	54	54	57	57	60	66	68	66	68	66	67	67	67	71	69	68	67	68	68	70	74	73	75	71	64	51	56	....	64.

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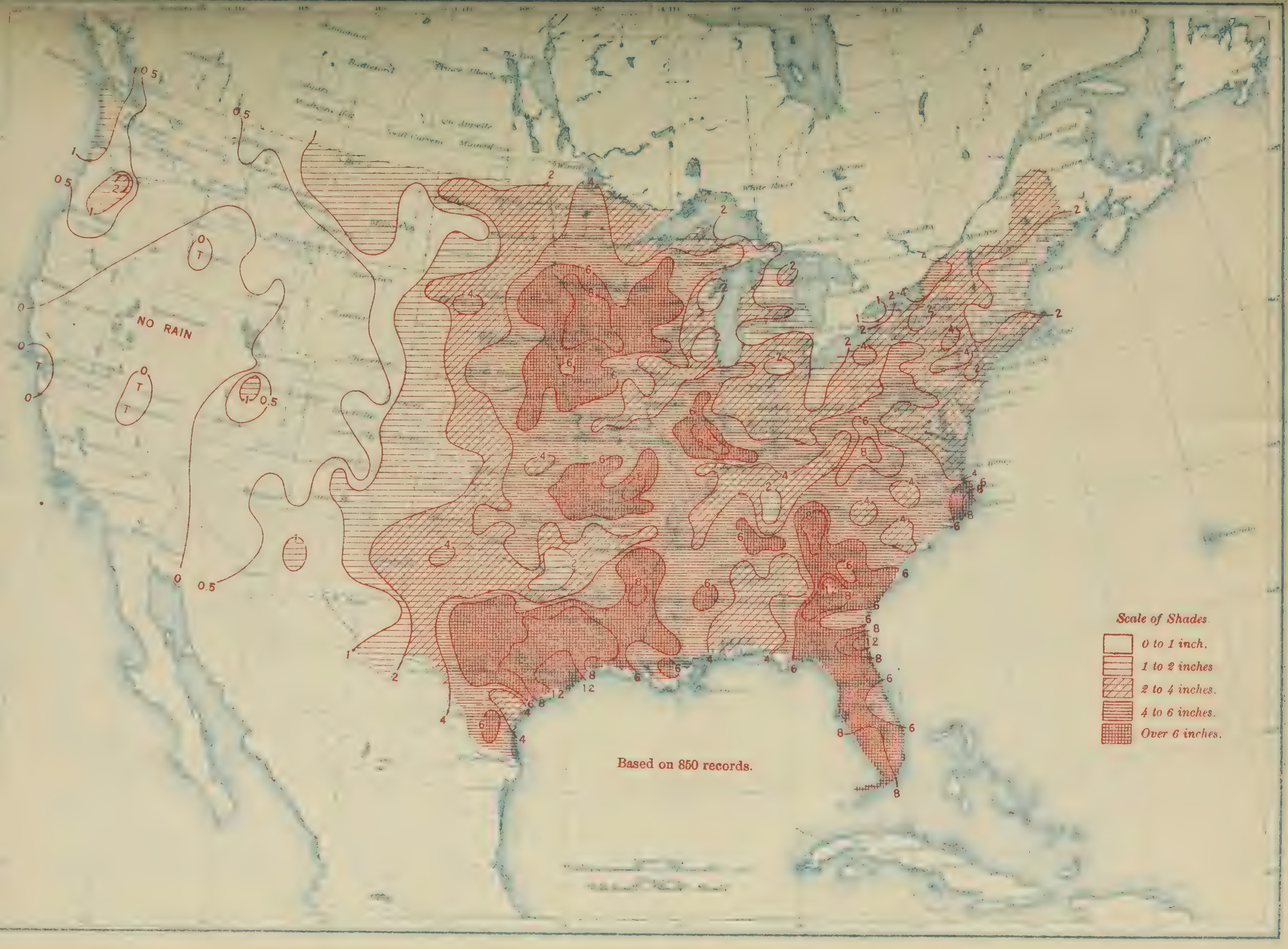
a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.


NO RAIN
Based on 850 records.
Scale of Shades.
0 to 1 inch.
1 to 2 inches
2 to 4 inches.
4 to 6 inches.
Over 6 inches.

Daily Evaporation (inches) and Wind Movement (miles) for June, 1919, at Columbia, Mo.

Date.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mo.
Columbia*	Evaporation	.122	.118	.063	.074	.149	.145	.210	.224	.250	.187	.138	.202	.216	.211	.140	.202	.202	.155	.196	.199	.223	.199	.101	.174	.232	.232	.235	218	.161	.214	....	5.367
	Wind movement	19	20	41	24	25	33	32	26	17	21	26	24	20	14	9	9	8	11	18	19	15	13	10	20	38	23	22	25	22	15	....	619
University of Mo.†	Evaporation	.243	.191	.114	.221	.181	.228	.171	.254	.279	.364	.110	.335	.235	.147	197	.208	.243	203	.232	.228	.123	.203	.118	.160	.129	.291	.271	.164	.318	.223	....	6.387
	Wind movement	83	101	57	80	87	89	38	38	46	67	110	103	61	31	21	8	31	34	40	31	36	43	22	65	70	35	29	57	70	58	....	1,641

*Observations taken at 7.45 a.m., Summer Time. †Observations taken at 5.30 p.m., Summer Time. Both stations are located on the University grounds; one on the West Campus and the other about one mile southeast on the Experiment Farm. To prevent confusion of records the former will be known as "Columbia" and the latter as "University of Missouri." The equipment is the same in both cases (see Annual Summary, 1918); but the Experiment Farm station has a freer exposure to sun and wind, comparing favorably with sea horizon.

DAMAGING STORMS, JUNE, 1919.

Excessive rains over the southeast lowlands and eastern Ozark Plateau on the 3d caused numerous creeks to overflow the first bottoms. The Current River rose 10 feet on the 4th at Doniphan. No estimates of the damage are available.

On the 8th severe local thunderstorms with high winds and hail caused considerable damage to grain and growing crops in Mississippi county and adjacent portions of Kentucky and Illinois. The damage is estimated from one-fourth to one-half million dollars, chiefly to the ripening wheat, which was laid flat. A large levee camp below Birds Point was demolished, and a negro killed by a tree falling across the tent in which he was sheltered.

On the 17th, from 4.30 to 5.30 p. m. St. Louis County was visited by a severe thunderstorm of marked electrical intensity. Lightning caused several fires in the city of St. Louis and demoralized public utilities for a time. Awnings, telephone, telegraph and light and power poles and wires and trees were broken in various parts of the city, and often thrown into the streets. In Alton two persons were killed by lightning. Wind and hail damage to wheat and truck crops was considerable in adjacent parts of the county.

On the 19th numerous severe local thunderstorms were reported over the northern half of the State. From 2 to 4 p. m. 4.21 inches of rain fell at Trenton; at 3 p. m. a violent storm struck near Newtown, 25 miles northeast of Trenton, where a large barn filled with feeds and machinery was struck by lightning and burned; at New London, Ralls County, many small buildings were blown down, window panes broken, and trees uprooted by the wind; at Hannibal, Marion County, damage was of a minor character such as to chimneys and limbs of trees, though in adjacent sections much damage was caused to the wheat. No reports of hail damage were received.

On the night of the 25-26th severe local storms visited portions of the northwest. Damage was chiefly due to high winds, which reached velocities of 50 to 54 miles per hour at both Kansas City and St. Joseph, points where anemometers are located. Extensive damage to wheat occurred in Jackson, Clay, Platte, Clinton and DeKalb counties, being most severe in the two first mentioned, where some fields will never be cut, while in others the loss will range from 15 to 30 per cent. Damage of minor importance was reported also in Boone, Callaway, St. Francois, St. Clair and Cape Girardeau counties. O. R. R.

OBSERVERS' REMARKS.

Brunswick—Excessive rains at the time rye was in bloom injured the crop.

Kirksville—This has been a fine month for farmers.

Macon, 8th—Wheat not materially damaged, heading fairly well. 12th—Corn replanting in progress, the first planted being weeded out in good shape; hay excellent. 24th—Corn in good stand, hot weather helping considerably; oats ready for harvest.

Mexico—There was a high wind on the 24th; some slight damage.

St. Catharine—June has been hot and sultry, scarcely any air circulation on some days. Corn has been laid by.

Warrenton—Farm and garden work has been retarded by excessive moisture much of the time, but the last part of month was favorable and resulted in much improvement.

Poplar Bluff—There was a wind storm on the 25th; not much damage.

Cassville—There was a thunderstorm with hail on the 19th.

Eldon—It has been too dry for pastures and gardens, but corn looks well; wheat is all cut and threshing is in progress.

Farmington—There was an unusual amount of cloudy weather but the sunshine seems to have been sufficient as this has been a fine crop growing month.

Houston—We have had an abundance of rain, and corn has not had the cultivation needed. Some wheat not yet cut.

Lebanon—Wheat is mostly all cut and in good condition. Corn is in fine condition.

Lockwood—This has been a very seasonable month. Wheat and oats harvest about completed.

Appleton City—The month has been rather too wet for best farm work. Pastures are good.

Lamonte—Some corn in bad condition because of excessive rains, and heavy wheat harvest. Some wheat fields abandoned because of badly lodged condition and wet ground.

Warsaw—The month was unusually wet, greatly retarding all farm work; marked improvement, however, last of the month.

Avalon—Splendid crops of all kinds; and good harvesting weather, but a poor bee season.

Grant City—Excessive rains hindered farm work. Corn looks well; and wheat harvest is in full progress.

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U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

MISSOURI SECTION

IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

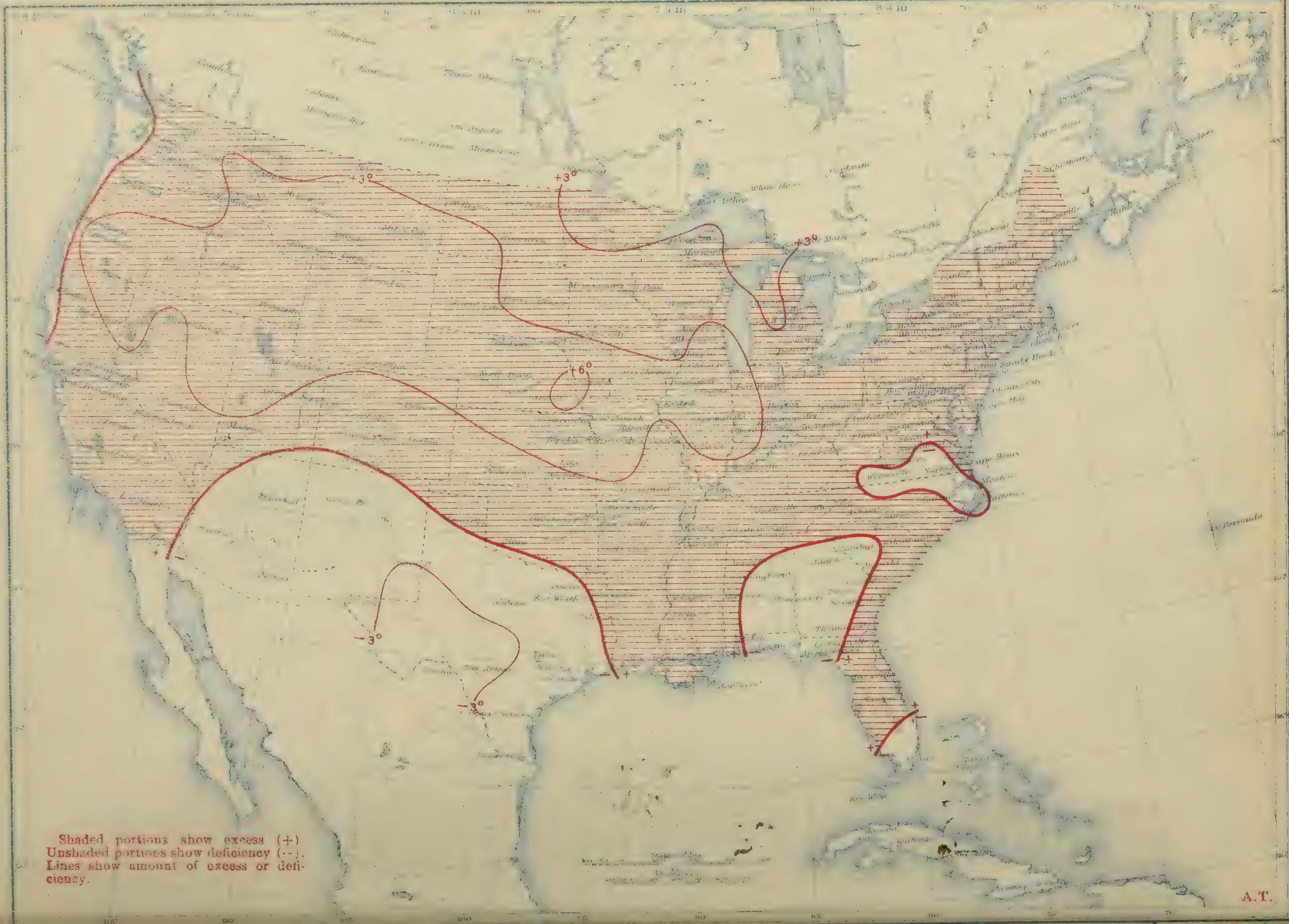
JULY, 1919

BY

GEORGE REEDER
METEOROLOGIST

COLUMBIA, MO.,
WEATHER BUREAU OFFICE
AUGUST 25, 1919.

Departure of the Mean Temperature from the Normal, July, 1919.


+3°
+3°
+3°
+6°
−3°
−3°
+
−
Shaded portions show excess (+)
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency.
A. T.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXIII. Columbia, Mo., July, 1919. No. 7

GENERAL SUMMARY.

July, 1919, in Missouri, was characterized by a large amount of sunshine, insufficient moisture over most of the State, and a general excess in temperature, though the last element was not markedly unusual. The general conditions were largely a repetition of those prevailing during the three past Julys. There were a few hail and windstorms, but the resulting damage was confined to small areas.

July is the critical month for the corn crop. For best results it should have well distributed and heavy rainfall. At the close of the month much upland corn was suffering because of the lack of rain, and a small per cent was already past reviving. Harvesting, threshing and haying made good progress. Pastures in many districts were brown and scanty. A few stockmen were feeding but as a rule live stock were in good condition. The best apple outlook comes from the eastern Ozarks and the Missouri River hills.

TEMPERATURE.

The monthly mean temperature for the State, 63 stations reporting, was 80.0°. The mean departure from the normal for 60 stations having 10 or more years' record was plus 2.3°. The warmth was uniformly distributed but the temperature excess was less marked in the Ozark Plateau and southwestern plain than the other sections. The first four and last nine days were the warmest, the rest of the month experiencing about normal heat, except the 11th and 12th. Maximum temperatures reached or exceeded the 100° value on the 4th, 11th, 12th, 25th, 30th and 31st. The average number of days above 90° was 24.

PRECIPITATION.

The average precipitation for the State was 2.33 inches. The mean departure from the normal for 71 stations having 10 or more years' record was minus 1.73 inches. The rainfall was below normal in all sections, the southeast being the driest and the northwest the wettest. Six stations received about normal precipitation, and another four received less than one inch of rain. Showers were more or less general from the 1st to the 5th, and 19th to 23d, otherwise scattered though locally heavy on a few dates. The greatest local monthly fall was 8.52 inches, at Conception, and the least was 0.32 inch, at Warsaw. The greatest amount in any consecutive 24 hours was 4.55 inches, at Conception on the 5th. Drought conditions prevailed at the close of the month in most districts.

WIND.

The prevailing winds were from the south. The average movement, based on the records of 8 stations equipped with anemometers was 5,372 miles, or about 7.2 miles per hour, which was about normal. Quite a strong general wind prevailed on the 11th, and high local winds occurred on the 31st. See last page for detailed report on storms.

SUNSHINE AND CLOUDINESS.

There were 23 clear days and only two cloudy days. The average number of hours of sunshine was 393, or 87 per cent of the possible and about 16 per cent greater than normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense—2d and 6th. Hail—9th and 11th. Halos, solar—11th, 14th, 15th and 19th. Lunar—8th. Thunderstorms, general—5th, 9th, 10th, 11th, 14th, 29th and 31st. Local—4th, 6th, 7th, 12th, 15th, 17th, 19th, 27th and 28th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	29.99	82	......	384	85	3,998	5.4	31	n.	11
Hannibal	29.99	79	......	......	......	5,171	7.0	37	w.	28
Kansas City	29 96	70	48	424	94	6,829	9.2	46	nw	31
St. Joseph	29.95	76	52	394	86	4,909	6.6	33	nw	5
St. Louis	29.99	68	46	375	83	7,362	9.9	38	nw.	11
Springfield	30.01	79	58	385	86	5,651	7.6	26	nw.	14
Cairo, Ill	29.99	81	60	......	......	4,422	5.9	47	nw.	11
Keokuk, Iowa	30.00	72	49	395	90	4,632	6.2	34	nw.	9

COMPARATIVE DATA FOR JULY.

Year.	Temperature.				Precipitation.				Number of Days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	79 3	+2.3	111	50	3.31	−0.98	......	0	7	....	....	....
1889	77.1	+0.1	107	46	3.75	−0.54	......	0	8	....	....	....
1890	79.6	+2 6	106	52	2.98	−1.31	......	0	5	....	....	....
1891	72.7	−4.3	103	40	3.55	−0.74	......	0	8	....	....	....
1892	75.8	−1.2	101	45	4.99	+0.70	4.75	0	8	12	10	9
1893	77.3	+0.3	101	51	4.91	+0.62	6.44	0	8	14	12	5
1894	76.5	−0.5	109	42	2.48	−1.81	4.90	0	5	18	10	3
1895	74 4	−2.6	106	45	6.79	+2.50	6.52	0	10	10	12	9
1896	77.3	+0.3	108	48	5.87	+1.58	8.00	0	9	15	11	5
1897	78.7	+1.7	106	48	3.22	−1.07	4.05	0	6	19	9	3
1898	76.1	−0.9	104	42	5.58	+1.29	8.15	0	9	16	10	5
1899	76.0	−1.0	102	43	4.51	+0.22	4.48	0	9	15	11	5
1900	76.9	—0.1	102	46	4.11	−0.18	7.03	0	8	17	10	4
1901	85.4	+8.4	116	46	2.02	−2.27	3.78	0	5	19	10	2
1902	77.0	0.0	103	50	4.59	+0.30	5.30	0	8	17	11	3
1903	77.4	+0.4	102	51	3.22	−1.07	3.26	0	8	17	10	4
1904	74.2	−2.8	100	47	4.65	+0.36	4.15	0	10	15	11	5
1905	73.4	−3 6	101	48	7.45	+3.16	7.60	0	12	12	10	9
1906	74.7	—2.3	100	48	3.53	+0.76	4.46	0	8	17	10	4
1907	78.4	+1.4	105	47	4.57	+0.28	6.70	0	8	19	8	4
1908	76.5	−0.5	101	49	2 23	—2.06	2.65	0	8	18	9	4
1909	76.7	−0.3	102	41	6.41	+2.12	10.71	0	10	17	8	6
1910	76.8	—0.2	109	46	6.70	+2.41	5.80	0	9	16	9	6
1911	78.0	+1.0	113	43	3.95	−0.34	4.20	0	8	16	9	6
1912	78.8	+1 8	104	52	2.74	−1.55	3.17	0	7	18	9	4
1913	80.2	+3.2	108	47	3.13	−1.16	3 62	0	7	18	9	4
1914	80.5	+3.7	109	45	2.67	−1.66	1.45	0	7	17	9	5
1915	74.6	−2.4	102	42	6.05	+1.59	6.77	0	12	14	9	8
1916	81.6	+4.6	109	52	1.25	—3.15	2.55	0	3	25	5	1
1917	77.5	+0.2	107	42	2.96	−1.22	3.40	0	8	20	8	3
1918	77.1	+0.2	110	41	1.76	—2.49	3.75	0	6	19	8	4
1919	80.0	+2.3	115	50	2.33	−1 37	4.55	0	5	23	6	2

SUPPLEMENTAL TABLE OF DATA.

Stations.	Length of record, years.	Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
		Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Arlington	15	3.81	+0.61	0.85	0	6	27	1	3	......	Wm. R. Bennett.
Boonville	41	3.85	−0.11	2 70	0	6	22	5	4	sw.	C. Randecker.
C. Girardeau	11	0.53	−2.56	0.25	0	3	26	3	2	ne.	D. L. Albert.
Glencoe	1	2.13	....	1.10	0	3	23	6	2	......	L. M. Beard.
Hermann	44	1.04	−2.93	0.47	0	3	29	0	2	s.	W. E. Crawford.
New Madrid	24	0.45	—3.55	0.45	0	1	22	2	6	s.	Miss Josie Smith.
Osceola	18	2.25	−1.89	1.37	0	3	26	1	4	....	Wm. E. Mathews.
Pacific	1	1.99	....	0.75	0	5	25	3	3	......	Mark Waters.
Steelville	16	1.57	−1 78	0.66	0	5	25	0	6	s.	A. Kreamelmeyer.
Tuscumbia	1	2.60	....	1.36	0	6	..	..	..	......	C. B. Wright.
Union	1	2.51	....	1.10	0	6	22	8	1	sw.	J. Wm. Keller.
Valley Park	1	2.96	....	1.73	0	4	25	5	1	......	T. W. McNeese.
Waverly	3	2.48	....	0.82	0	5	28	2	1	sw.	J. W. Cauthorn.

Climatological data for July, 1919.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
unswick	Chariton	650	37	80.2	+5.0	100	28†	60	22†	35	4.01	−0.63	1.33	0	7	29	0	2	sw.	Louis Benecke.
ton Hill	Randolph	731	20	80.4	+4.4	103	25	58	23	37	2.19	−2.07	1.10	0	5	26	5	0	.....	L. S. Harlan.
lumbia	Boone	784	30	78.9	+1.5	97	31	59	23	31	2.52	−1.13	0.96	0	6	23	7	1	s.	U. S. Weather Bureau.
yette	Howard	725	32	78.8	+1.4	99	31	58	22	32	2.62	−1.15	1.85	0	4					Prof. L. J. Abernathy
ilton	Callaway	818	13																	Prof. Geo. B. Sweazey.
in.	Scotland	700	28								2.17	−2.01	1.51	0	4	23	4	4	sw.	J. W. Pulliam.
annibal	Marion	534	24	79.4	+2.0	98	31	59	18	33	3.73	−0.02	1.54	0	7	24	6	1	sw.	U. S. Weather Bureau.
fferson City	Cole	557	31	79.4	+1.3	100	31	60	17†	37	1.37	−2.16	0.45	0	8	28	3	0	s.	Miss Emma Swift.
ytesville	Chariton	660	4																	J. T. Dewey, M. D.
rksville	Adair	969	25	78.6	+2.5	99	29	58	17	31	1.32	−3.26	0.76	0	3	27	4	0	s.	Prof. Mark Burrows.
uisiana	Pike	469	39	78.5	+2.5	100	28†	50	7	40	1.31	−1.98	0.76	0	4	24	7	0	sw.	J. T. Farrell.
acon	Macon	875	19	79.0	+1.6	98	28†	59	16	33	3.36	−0.30	1.78	0	4	23	6	2	sw.	W. C. Brown.
exico	Audrain	797	39	79.9	+2.6	101	28†	58	23†	37	3.51	−0.50	1.85	0	3	29	1	1	e.	Mrs. Abbie Snoddy.
akfield ‡‡	Franklin	793	36	79.8	+1.9	100	25†	63	17	32	2.25	−1.88	1.14	0	5	18	13	0	s.	E. E. Steines.
lmyra	Marion	652	17																	W. B. Markell.
St. Catherine	Linn	850	8	78.0	......	99	29†	58	22	30	3.07	......	1.50	0	6	22	8	1	sw.	L. D. Baker.
St. Charles	St. Charles	456	39	80.4	+2.7	102	30	62	7†	32	1.75	−1.75	1.10	0	2	23	8	0	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	46	81.6	+2.5	99	31	66	7	27	1.50	−1.93	0.79	0	8	22	8	1	sw.	U. S. Weather Bureau.
St. Louis (2)	do.	578	7	81.2	+1.1	98	31	66	7†	28	1.36	....	0.75	0	7	24	7	0	s.	St. Louis University.
helbina ††	Shelby	775	25								2.00	−2.60	1.02	0	3					S. G. Parsons.
teffenville	Lewis	650	21	82.0	+4.8	104	28	55	16	42	1.84	−3.01	0.95	0	4	19	12	0	sw.	Frank Hall.
ionville	Putnam	1,072	24	78.8	+2.1	99	29†	54	16	35	3.80	−0.39	1.70	0	5	20	5	6	s.	Geo. W. Davis.
arrenton	Warren	865	26	79.4	+1.8	100	31	57	5	30	2.75	−1.18	1.20	0	4	18	12	1	s.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	46	81.0	+4.0	100	31	62	7	30	2.47	−1.56	1.04	0	7	21	10	0	s.	U. S. Weather Bureau.
Section means and	extremes			79.8	+2.5	102	30	50	7	42	2.43	−1.55	1.85	0	5	23	7	1	s.	
Southeast Lowlands.																				
aruthersville	Pemiscot	220	26	86.6	+6.4	105	4†	65	17	31	1.28	−2.20	1.05	0	4	28	2	1	w.	H. E. Averill.
oniphan	Ripley	344	12	80.7	+2.6	100	31	56	18	38	1.14	−3.61	0.83	0	4	21	10	0	s.	W. W. Martin.
ackson	Cape Girardeau	458	26	79.8^{c}	+2.5	101	28	53	15†	45	2.18	−1.35	0.87	0	7	21	8	2	s.	L. M. Bean.
arble Hill	Bollinger	420	25																	W. A. Kinder
atton (near)	Bollinger	500	3								1.35	−2.65	0.50	0	4					George F. Ellis.
Poplar Bluff	Butler	339	13	81.0	+2.5	99	28†	59	17†	26	1.23	−2.37	0.89	0	3	18	6	7	......	Miss Belle Kinne.
airo, Ill.	Alexander, Ill.	359	14	81.4	+2.8	95	30	65	17	25	1.51	−1.94	0.73	0	3	15	11	5	n.	U. S. Weather Bureau.
Section means and	extremes			81.9	+3.4	105	4†	53	15†	45	1.50	−2.35	1.05	0	4	21	7	3	s.	
Ozark Plateau.																				
Arcadia	Iron	925	39	77.6	+1.7	99	24	52	18	42	0.59	−3.75	0.23	0	5	23	2	6	s.	Arcadia College.
Birchtree	Shannon	1,078	23	78.6^{a}	+2.3	98	27†	58	18	34	1.26	−2.89	0.50	0	6	24	7	0	s.	K. H. Kirkendall.
Bolivar	Polk	1,071	29	79.5	+2.4	101	25	52	23	46	2.19	−1.61	1.23	0	4	23	8	0	sw.	V. H. Brown.
assville	Barry	1,475	20																	R. H. Wallen.
ean ‡‡	McDonald	1,000	20	78.0^{c}	+0.4	97	11	55	23	38	2.14	−2.05	1.70	0	4	28	2	1	sw.	H. E. Dean.
ldon	Miller	934	20	78.0	1.0	99	28†	56	17†	38	2.69	−1.09	1.60	0	6	11	18	2	se.	E. H. Shepherd.
armington	St. Francois	958	8	80.5	+5.9	101	12†	58	17†	40	0.32	−3.35	0.22	0	3	18	13	0	sw.	Robert Forsyth.
ano ‡‡	Dent	1,250	13	77.7	+0.8	99	25	55	17	37	1.29	−2.41	0.64	0	6	26	5	0	se.	A. C. Leach.
oodland ††	Iron	1,000	12	76.6	+1.0	97	24†	52	18	42	2.93	−1.34	0.88	0	5	23	6	2	s.	F. M. Adams.
Hollister	Taney	735	33								1.84	−2.29	0.60	0	4	26	0	5	sw.	W. P. Chapmann.
Houston	Texas	1,280	24	77.8	+1.8	95	24†	58	23	36	0.62	−3.63	0.36	0	2	25	6	0	se.	R. F. Harmon.
Koshkonong	Oregon	958	18																	R. M. Hitt.
Lebanon	Laclede	1,265	28	75.8	−1.2	97	25	55	19†	41	2.88	−1.24	0.90	0	7	28	2	1	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	22	79.4^{a}	+1.9	97	11	59	19†	35	2.09	−3.05	1.07	0	4	28	2	1	sw.	C. S. Crow.
Mountain Grove	Wright	1,490	20	76.6	+0.6	94	24†	55	19	34	4.43	+0.39	2.47	0	8	21	7	3	e.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	34	78.2	+0.6	96	11†	52	23	41	1.61	−2.65	0.93	0	5	27	4	0	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,139	35	79.2	+1.9	98	24	56	18	36	4.26	+0.09	1.82	0	6	20	11	0	se.	Prof. Elmo G. Harris.
Springfield	Greene	1,350	30	78.6	+2.2	94	11	63	18	25	1.96	−2.83	0.84	0	6	21	10	0	se.	U. S. Weather Bureau.
Section means and	extremes			78.3	+1.6	101	12†	52	18†	46	2.01	−2.16	2.47	0	5	24	6	1	sw.	
Southwest Plain.																				
Amoret	Bates	831	12	80.0	+2.6	102	11	57	19	36	1.44	−2.78	0.92	0	5	25	5	1	s	Darby Fruit Farm.
Appleton City	St. Clair	853	26	80.2	+2.0	96	29	62	19	31	1.12	−3.72	0.43	0	3	23	8	0	sw.	W. G. Bigelow.
Clinton	Henry	765	30	80.3	+2.9	99	29	57	23	37	1.15	−2.92	0.35	0	4	26	5	0	sw.	A. E. Derwent, M. D.
Harrisonville ††	Cass	912	41	80.5	−2.7	101	25†	56	23	40	1.81	−2.03	1.20	0	6	21	3	7	sw.	A. J. Sharp.
Lamar	Barton	980	36	80.0	+1.5	100	11	56	23	39	1.22	−3.12	1.00	0	4	28	3	0	s.	Joe W. Springer.
Lamonte	Pettis	863	30	78.4	−1.1	98	31	54	23	40	3.77	−0.23	1.20	0	5	21	10	0	sw.	J. Ed. Hall.
Marshall	Saline	779	29	79.4^{b}	+2.2	98	31	60	18	33	2.82	−1.23	1.20	0	6	19^{b}	10^{b}	0	sw.	Dr. W. H. Black.
Nevada	Vernon	860	25	79.0	−1.4	95	11	58	23	34	1.92	−2.17	0.76	0	6	26	5	0	s.	George A. Kaupp.
Warrensburg	Johnson	883	38																	Geo. H. Collins.
Warsaw	Benton	715	20	79.2	+0.9	100	25†	52	23	45	0.32	−4.05	0.15	0	4	16	15	0	......	J. R. Smith, M. D.
Section means and	extremes			79.7	+0.8	102	11	52	23	45	1.73	−2.47	1.20	0	5	23	7	1	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	31	81.4	+2.5	103	31	60	17†	32	4.97	+0.80	1.70	0	7	24	7	0	sw.	F. G. Ashbaugh.
Bethany	Harrison	916	27	79.6	+3.9	102	31	56	22	38	4.98	+0.47	2.00	0	6	22	8	1	sw.	M. H. Moulton.
Chillicothe ††	Livingston	768	10																	R. L. Isherwood.
Conception	Nodaway	982	32	80.4	+4.5	102	31	61	18†	33	8.52	+4.17	4.55	0	7	22	8	1	se.	Fr. Adelhelm Hess.
Gallatin	Daviess	803	17								2.71	−1.95	1.12	0	4	25	6	0	sw.	Robert R. Wynne, Jr.
Grant City	Worth	1,134	24	79.2	+3.6	100	30†	61	18†	33	3.19	−1.75	1.40	0	6	26	4	1	s.	W. H. Campbell.
Kansas City	Jackson	963	28	81.8	+4.2	98	31	66	22	25	1.14	−3.70	0.44	0	5	24	6	1	s.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	26	79.0	+2.3	98	31	58	22	29	2.78	−1.33	0.95	0	6	25	3	3	sw.	J. F. Sharp.
Lexington	Lafayette	688	35	80.2	+3.1	100	31	59	22	35	2.08	−2.74	0.66	0	4	28	0	3	s.	J. W. Keithley.
Liberty	Clay	864	28	82.0	+4.3	103	31	61	22†	36	1.46	−3.14	0.46	0	4	27	4	0	s.	W. C. Wilmott.
Maryville	Nodaway	1,036	26																	J. R. Brink.
Oregon	Holt	1,048	61	78.8	+3.4	98	27	56	22	32	3.41	−0.97	1.32	0	4	20	10	1	se.	Tom Curry.
St. Joseph	Buchanan	967	45	81.1	+1.9	100	31	61	24	35	2.68	−1.20	1.67	0	4	25	6	0	s.	U. S. Weather Bureau.
Tarkio	Atchison	976	17	79.9	+3.1	99	30†	55	22	35	1.66	−2.18	0.71	0	6	21	5	2	sw.	John F. Frazier.
Trenton	Grundy	822	22	79.6	+3.1	97	31	61	22	27	6.48	+2.50	2.38	0	6	27	3	1	s.	W. H. Estes.
Section means and	extremes			80.2	+3.3	103	31	55	22	38	3.54	−0.85	4.55	0	5	25	5	1	s.	
State means and	**extremes**			80.0	+2.3	105	4†	50	7	46	2.33	−1.37	4.55	0	5	23	6	2	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

† Also on other dates. †† Received too late to be included in means and summaries. ‡‡ Post-office addresses of these stations are as follows: of Oakfield, Pacific, R. F. D. No. 1; of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily precipitation for July, 1919.

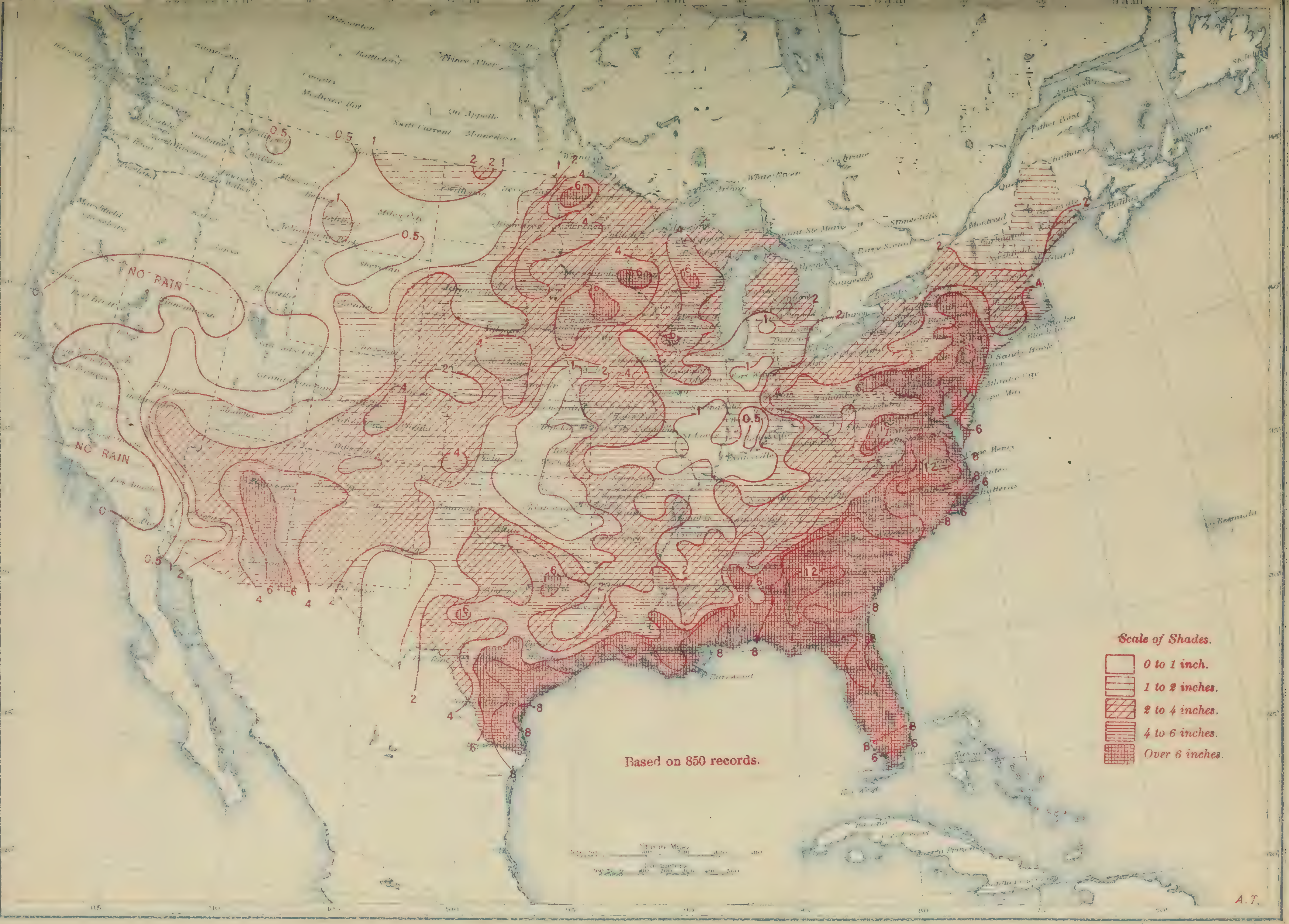
Stations.	Watersheds.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville	Missouri					.03	.20				2.70	.20	.50			.22																	3.85
Brunswick ‡	Grand	.20				65	.45				1.33	.08	.40			.90																	4.01
Clifton Hill	Chariton						.20				1.10	.45			.40	.04																	2.19
Columbia***	Missouri					.41			.96	T.	.59	.29			.22													.05					2.52
Fayette	do					.23				1.85		.20			.34																	T.	2.62
Fulton	do																																
Glencoe ‡	Meramec										.86		1.10			.17															T.		2.13
Gorin	Mississippi				.21	1.51					.22	.23																					2.17
Hannibal***	do					.04				1.53	.01	.24			.92														.57			.42	3.73
Hermann ‖	Missouri										.45		.47			.12														T.		T.	1.04
Jefferson City ‖	do					.02	.03				.45	.21	.22			.17													.22	.05			1.37
Keytesville	Chariton																																
Kirksville	Mississippi				T.	.22					.76	.34																			T.		1.32
Louisiana	do					.06					.76	.19			T.	T.												T.			.30		1.31
Macon	Chariton						T.				.64	.04	1.78			.90																	3.36
Mexico	Mississippi					T.					1.85		1.43			[illegible]																	3.51
Oakfield	Meramec					T.					.64	1.14			T.	.20													T.	.04	.23		2.25
Pacific ‖	do										.35		.63			.11														.75	.15		1.99
Palmyra	Mississippi																																
St. Catherine	Grand				.83	.05	.05				.55	1.50			.09	T.																	3.07
St. Charles	Missouri										.65	1.10			T.	T.																	1.75
St. Louis (1)***	Mississippi					.06				.11	.07	.79			.01	.07													.28	.11			1.50
St. Louis (2)	do					T.				.15	.08	.75			[illegible]	[illegible]													.11	.19			1.36
Shelbina	do										1.02	.46				[illegible]																	2.00
Steffenville	do					T.					.52	.30			.95															.07			1.84
Union	Meramec						.08				.60		1.10			.20														.38		.15	2.51
Unionville	Chariton				.90	.30				1.70		.60			.30																		3.80
Valley Park ‖	Meramec										.70		1.73			.15														.38			2.96
Warrenton	Mississippi							T.			1.20		1.07			.13													.35	T.			2.75
Keokuk, Iowa***	do					1.04				.20		.01	1.01		T.															.03	.16	1.02	[illegible]
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi						.06						.25			.22																	0.53
Caruthersville	do					T.	.08					1.05				.05											.10	T.					1.28
Doniphan	Black						.15				.34	T.		T.		.12											T.					.83	1.44
Jackson	Mississippi				.25	.16				.03		.25				.17													.45			.87	2.18
Marble Hill	do																																
New Madrid ‖	do												.45																				0.45
Patton (near)	do					.50						.29				.41																.15	1.35
Poplar Bluff ‖	Black						T.	.09			.25		.89															T.					1.23
Cairo, Ill.***	Mississippi				T.		.73					.35				.43												T.				T.	1.51
Ozark Plateau.																																	
Arcadia ‖	St. Francis						.05				.09		.23			.03													T.			.19	0.59
Arlington ‖ ‖	Gasconade						.80			.30	.85	T.																.63	.50	.73			3.81
Birchtree	Black								.12		50	15																	.03	.26	.20		1.26
Bolivar	Osage								.09		.72				T.	.15													1.23		T.		2.19
Cassville	White																																
Dean	Neosho					.16										1.70													.18	.10			2.14
Eldon	Osage					.03	.39				1.60				.03	.40													.24				2.69
Farmington	St. Francis										.04	.22			T.	.06													T.			T.	0.32
Gano	Meramec					.33	.31				.09	.23																.26	.07	T.			1.29
Goodland	Black										.28	.88																.60	.51	.66			2.93
Hollister	White									.60	.40																		.40	.44			1.84
Houston	Gasconade					T.			T.		.36																					.26	0.62
Koshkonong	Black																																
Lebanon ‖ ‖	Osage	T.							.16		.88	.06			.04														.10	.74	.90		2.88
Lockwood	do										.09					.50											.43			1.07			2.09
Mountain Grove ‖	White						11		.56	.58	.20	.36				.08													2.47	.07		T.	4.43
Neosho	Neosho			T.		.21					T.					.93													.24	.08	.15		1.61
Rolla ‖	Meramec						1.25			.01	.90	.13				.15													1.82			T.	4.26
Springfield***	White		T.			T.	.02	T.	.57	T.	.84				.36	.16													T.		.01		1.96
Steelville ‖ ‖	Meramec						.08				.25		.38																.20	.66			1.57
Tuscumbia ‖ ‖	Osage						.39			.46	1.36	.21				.05																.13	2.60
Southwest Plain.																																	
Amoret	Osage			.02		.09									.92	.12															.29		1.44
Appleton City	do	T.		.01		.34		T.		T.						.43														.34			1.12
Clinton	do					.30									.25	25														.35			1.15
Harrisonville ‖	do					.05	.02	.03		1.20						.48															.03		1.81
Lamar ‖	Neosho	.07		T.			.05									1.00															.10		1.22
Lamonte	Missouri	T.				.60	.15	T.	T.		.87				.95																1.20		3.77
Marshall	do	.07				.10	.25				1.20	.30			.90																		2.82
Nevada	Osage					.50									.76	.28													.01	.24	.13		1.92
Osceola ‖	do					.41										.47															1.37		2.25
Warrensburg	Missouri																																
Warsaw ‖ ‖	Osage	T.				.15		.05			.02					.10														T.			0.32
Waverly ‖	Missouri	.27				.58	.33			T.	.48		T.			.82																	2.48
Northwest Plateau.																																	
Avalon	Grand				.35	.55				.70		.55			1.00																.12	1.70	4.97
Bethany	do				2.00	.30	1.05				.23	.90			.50																		4.98
Chillicothe ‖	do																																
Conception	Missouri				2.17	1.55					.36	.03			.06			.09														1.26	5.52
Gallatin	Grand			T.	1.12	.60	.02				.55	.42			T.																T.		2.71
Grant City	do	T.			.96	.40					.20	1.40			.06																	.17	3.19
Kansas City***	Missouri				.44	.01		T.							.30															.26		13	1.14
Kidder	Grand					.95	.82				.58	.10	.01			.32																	2.78
Lexington ‖	Missouri					.45	.66					.54				.43																	2.08
Liberty	do					.45			.25							.30																46	1.46
Maryville	do	.08				.44	1.41				.10		.05			.30		.23															2.61
Oregon	do				1.13	1.32					T.				.08																	.88	3.41
St. Joseph***	do				.51	.43					T.				T.			.16														1.58	2.68
Tarkio	do	.01			.74	.41						.02			.18																	.30	1.66
Trenton	Grand				1.08	.19					2.14	.65			.04																	2.38	6.48

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. **Precipitation in the next following measurement. ‡ Separate dates of fall not recorded

Daily temperatures for July, 1919.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	90	90	92	92	88	90	90	95	98	91	88	97	94	94	84	89	88	90	93	97	88	91	94	96	98	94	100	100	99	100	101	93.3
	Minimum	67	69	69	72	71	66	67	67	70	67	69	67	69	75	69	61	62	61	62	62	66	60	60	61	63	66	76	71	72	71	72	67.2
Columbia	Maximum	88	89	91	92	82	83	87	89	93	87	83	94	92	92	83	83	85	85	89	91	88	86	90	93	96	95	95	96	91	96	97	89.7
	Minimum	68	69	73	70	67	66	67	71	70	67	67	73	75	72	69	62	61	60	62	67	66	61	59	62	68	74	73	73	71	72	75	68.1
Fayette	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Hannibal	Maximum	91	88	93	93	86	85	88	90	95	86	83	96	93	93	84	85	85	88	93	92	89	87	91	94	96	95	96	97	96	96	98	91.0
	Minimum	70	70	73	70	69	69	66	66	65	65	69	71	74	70	72	62	62	59	60	65	65	60	60	61	67	76	74	73	73	74	73	67.8
Jefferson City §§	Maximum	89	91	91	92	82	85	91	92	95	88	90	95	92	93	85	85	87	89	92	64	92	89	94	98	99	97	97	97	94	95	100	91.9
	Minimum	67	66	69	68	69	66	66	69	69	66	67	67	73	74	69	64	60	61	63	65	66	64	60	61	65	67	71	72	69	71	73	67.0
Kirksville	Maximum	89	88	91	91	84	85	87	90	94	89	82	93	91	92	83	84	86	85	91	93	86	88	89	94	96	95	95	97	99	96	98	90.4
	Minimum	68	65	71	70	68	67	60	66	69	65	67	70	73	74	62	60	58	59	61	62	65	61	63	63	67	72	71	74	72	74	75	66.9
Louisiana	Maximum	90	91	94	95	92	94	88	90	96	95	93	95	95	92	95	94	95	90	93	93	93	90	93	95	96	95	95	100	97	98	100	93.9
	Minimum	60	64	68	63	68	67	50	54	62	65	64	68	73	70	73	58	55	53	55	60	60	58	52	54	60	62	73	74	70	70	74	63.1
Macon §§	Maximum	90	90	93	93	88	90	90	91	97	87	85	95	92	91	83	86	88	88	92	94	85	90	91	96	97	96	96	98	98	96	97	91.7
	Minimum	63	66	70	70	69	66	60	61	67	66	66	65	71	73	69	59	60	59	60	61	65	60	60	65	67	72	72	72	70	72	74	66.2
Mexico §§	Maximum	93	91	96	95	86	86	92	95	100	89	81	96	95	95	84	87	87	89	90	94	92	89	95	96	100	98	100	101	97	101	101	93.3
	Minimum	67	68	71	68	69	65	62	66	66	64	68	65	74	73	70	61	60	58	60	61	65	60	58	61	66	71	72	73	72	72	74	66.5
Oakfield	Maximum	90	92	92	94	92	84	88	90	96	90	84	97	97	96	86	83	85	88	90	90	95	87	93	96	100	93	93	95	96	98	100	91.9
	Minimum	69	68	68	69	66	65	64	66	68	65	66	67	73	74	71	64	63	64	67	67	65	64	67	67	68	72	70	73	70	71	71	67.8
St. Catharine	Maximum	86	87	88	90	82	82	85	93	94	87	82	90	90	87	80	85	85	85	88	90	85	87	88	93	93	94	94	97	99	97	99	89.1
	Minimum	68	66	71	68	68	66	64	68	70	66	65	70	74	74	67	59	60	60	59	63	65	58	62	63	66	73	72	72	70	72	73	66.8
St. Louis (1)	Maximum	91	90	92	94	90	84	87	89	93	87	81	96	95	94	87	85	84	88	93	94	93	89	91	95	96	90	90	92	93	95	99	90.9
	Minimum	75	74	75	75	74	73	66	69	67	68	68	69	78	78	72	68	69	68	71	72	74	70	72	74	74	74	72	75	74	75	78	72.3
Unionville	Maximum	90	91	93	94	90	88	90	93	96	90	86	95	94	91	86	86	88	86	92	93	88	90	88	95	96	95	97	98	99	98	99	92.1
	Minimum	66	64	74	70	66	64	60	65	70	66	65	67	71	72	64	54	56	58	57	60	68	55	60	61	64	72	71	74	72	70	72	65.4
Warrenton §§	Maximum	91	90	93	94	85	83	90	90	97	91	80	96	95	95	85	86	86	87	91	92	94	89	94	96	99	94	93	97	95	95	100	91.7
	Minimum	67	66	69	68	55	65	62	64	66	65	68	66	75	74	70	62	61	61	64	66	68	62	64	68	69	71	72	72	70	72	75	67.1
Southeast Lowlands.																																	
Caruthersville	Maximum	92	100	102	105	101	92	98	101	103	102	102	105	102	101	99	95	95	100	102	105	104	96	103	105	102	96	97	103	104	104	101	100.6
	Minimum	71	70	70	71	73	74	72	72	73	73	72	73	75	76	77	72	65	66	69	74	74	74	72	70	72	73	74	75	74	75	75	72.5
Doniphan	Maximum	86	92	93	95	94	94	93	93	93	93	95	98	98	95	95	90	88	91	95	95	98	96	96	98	98	91	92	96	98	99	100	94.5
	Minimum	66	65	63	64	70	71	70	68	64	67	70	69	71	70	74	68	57	56	57	60	68	67	64	68	65	70	71	70	69	71	72	66.9
Jackson	Maximum	91	93	95	99	99	96	91	93	92	92	99	98	95	88	86	92	93	95	97	95	95	99	99	94	95	94	100	101	....	....	....	ᶜ94.9
	Minimum	66	64	63	63	64	60	65	66	67	67	65	70	74	62	53	53	63	68	65	78	50	56	59	70	70	72	69	71	....	....	....	ᶜ64.8
Marble Hill	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Poplar Bluff	Maximum	93	95	97	96	92	94	94	94	91	96	97	98	98	94	91	88	92	95	91	98	95	95	93	98	90	92	95	99	98	99	98	94.7
	Minimum	65	65	65	66	69	69	69	65	63	67	68	68	70	70	75	66	59	59	64	69	68	70	69	62	65	70	72	71	69	71	69	67.3
Ozark Plateau.																																	
Arcadia §§	Maximum	86	90	90	94	92	89	91	91	93	90	91	98	94	94	91	87	87	91	93	95	97	93	95	99	98	99	90	85	95	93	96	92.5
	Minimum	62	62	59	61	62	66	64	58	58	62	65	67	72	70	72	61	53	52	56	60	61	62	55	57	59	62	71	70	67	69	71	62.8
Birchtree	Maximum	82	86	87	91	85	91	92	91	92	88	....	95	90	94	89	86	86	89	92	95	96	93	94	96	97	89	98	93	92	93	98	ᵃ91.3
	Minimum	67	65	65	63	64	67	68	67	65	64	....	67	68	69	72	64	59	58	61	67	68	67	63	62	67	68	68	67	67	68	68	ᵃ65.8
Cassville	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Eldon	Maximum	77	86	90	80	91	90	92	95	95	92	90	94	92	93	85	90	87	89	92	96	94	92	93	96	98	95	96	99	95	99	99	92.0
	Minimum	60	62	65	62	65	64	64	63	64	62	68	72	67	69	66	59	56	56	57	63	61	59	64	60	60	70	68	69	67	67	71	63.9
Farmington	Maximum	93	92	96	96	96	89	93	92	95	90	90	101	99	97	88	88	92	94	94	95	93	91	96	100	101	96	97	91	98	97	97	94.4
	Minimum	67	66	64	65	67	70	66	68	61	62	66	68	71	72	77	64	58	58	67	65	64	63	60	60	63	71	73	73	69	73	73	66.6
Gano	Maximum	88	89	90	91	88	85	88	87	92	87	92	93	94	92	84	84	85	89	88	93	91	89	94	96	99	91	88	94	96	97	98	90.7
	Minimum	63	64	65	64	63	66	65	62	64	64	63	68	70	71	68	61	55	56	59	65	62	63	68	61	62	70	70	69	68	67	71	64.7
Hollister	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Koshkonong	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Lebanon §§	Maximum	80	91	80	84	82	84	85	85	93	83	77	94	92	91	88	85	86	84	80	84	90	90	91	96	97	93	92	92	91	91	94	87.1
	Minimum	67	65	65	64	64	63	64	66	68	65	63	70	69	71	68	59	58	57	55	55	60	60	55	55	60	60	71	71	70	68	69	63.9
Mountain Grove §§	Maximum	84	85	85	88	85	91	89	87	92	87	93	92	89	90	85	85	84	84	88	92	91	89	91	94	94	87	86	85	91	90	92	88.7
	Minimum	65	64	66	65	64	65	68	68	65	64	66	69	70	70	69	61	60	56	55	59	64	63	60	60	62	66	68	67	68	68	67	64.5
Neosho	Maximum	88	89	89	89	89	91	92	92	94	95	96	95	92	92	91	85	87	86	89	92	91	88	93	96	94	95	95	91	92	93	94	91.6
	Minimum	65	65	67	62	66	66	67	68	67	72	70	71	70	69	67	58	57	57	54	58	62	61	52	59	64	67	68	69	69	68	73	64.5
Rolla	Maximum	88	89	90	90	86	86	89	90	93	89	90	92	92	92	87	85	87	89	91	92	93	90	94	98	98	94	90	95	94	95	94	91.8
	Minimum	61	67	62	67	65	66	67	65	78	65	72	75	72	72	78	63	72	56	61	65	64	64	60	62	63	72	70	71	70	70	72	67.0
Springfield	Maximum	83	85	86	87	81	90	90	89	90	90	94	92	88	89	83	82	82	83	87	90	90	87	91	91	93	91	89	88	87	91	92	88.3
	Minimum	68	67	70	68	67	70	72	69	69	66	71	75	74	70	69	65	63	63	64	70	69	67	66	70	72	70	71	71	71	70	73	69.1
Southwest Plain.																																	
Amoret	Maximum	87	89	91	92	86	92	95	98	98	94	102	98	95	95	87	89	87	87	90	92	93	92	94	96	98	99	98	98	96	98	99	93.7
	Minimum	65	66	68	67	68	67	71	70	70	67	78	70	72	67	67	61	62	60	57	59	65	59	58	61	66	69	67	71	68	70	71	66.4
Appleton City	Maximum	87	89	90	89	83	92	93	95	94	93	95	94	92	92	86	87	87	86	89	91	94	89	95	95	94	95	94	92	96	90	95	91.3
	Minimum	69	69	71	68	70	69	74	70	72	68	72	74	73	70	68	61	63	63	62	66	70	64	63	64	66	72	72	73	70	70	84	69.1
Clinton	Maximum	90	91	92	92	88	93	95	96	97	94	92	95	94	95	88	89	89	90	92	94	90	91	94	97	97	98	97	98	99	95	98	93.5
	Minimum	67	67	70	67	70	68	72	69	70	68	71	73	73	71	68	61	59	60	62	63	65	61	57	60	62	72	71	73	69	69	73	67.1
Harrisonville §§	Maximum	89	90	92	93	87	94	97	96	96	93	93	98	96	93	85	88	87	87	89	93	90	92	93	96	101	101	101	100	101	100	100	93.9
	Minimum	62	67	70	69	68	66	70	70	70	69	69	70	73	72	68	62	61	63	61	62	66	62	56	60	61	72	72	73	71	71	74	67.1
Lamar §§	Maximum	88	90	90	90	87	94	94	95	96	94	100	95	95	94	88	88	90	88	92	93	95	93	95	98	96	97	95	96	93	97	98	93.4
	Minimum	68	67	68	66	70	68	71	70	69	69	72	75	72	72	68	62	60	60	57	60	60	60	56	58	66	71	71	72	70	68	73	66.7
Lamonte	Maximum	82	89	90	89	83	85	90	94	96	90	87	94	92	95	82	87	[illegible]	86	88	92	87	87	91	97	96	95	96	96	95	97	98	90.7
	Minimum	62	67	71	69	68	66	68	67	74	67	72	69	63	70	78	58	57	58	57	62	62	56	54	57	75	74	72	72	72	70	66	66.2
Marshall	Maximum	88	89	90	91	87	85	....	95	96	90	94	95	91	94	86	86	87	88	89	94	88	88	....	94	95	95	96	97	96	97	98	ᵇ91.7
	Minimum	66	68	72	67	69	67	....	67	70	69	67	71	70	72	67	63	61	60	61	67	67	61	....	61	63	65	72	73	68	69	73	ᵇ67.1
Warrensburg	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Warsaw	Maximum	88	90	91	91	86	91	96	95	97	93	95	97	98	97	85	86	86	86	91	93	93	88	85	98	100	99	99	99	96	100	100	93.2
	Minimum	65	65	72	62	70	67	72	67	67	66	72	73	73	75	69	58	55	56	56	56	62	55	52	53	55	74	73	72	69	68	75	65.3
Northwest Plateau.																																	
Chillicothe §§	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Grant City	Maximum	91	90	93	92	87	86	85	92	95	89	86	97	94	84	83	87	87	89	90	93	85	86	91	95	96	96	98	99	99	100	100	91.6
	Minimum	68	67	68	68	67	65	68	68	69	67	63	69	77	71	65	62	60	61	62	66	65	64	61	62	64	71	71	72	69	71	73	66.9
Kansas City	Maximum	88	88	90	93	85	87	95	92	96	92	94	97	94	89	84	87	86	86	86	91	86	86	92	96	97	97	96	96	93	95	98	91.4
	Minimum	71	70	72	70	70	66	73	75	77	70	76	78	77	74	71	69	70	67	69	70	70	66	71	73	76	76	75	77	75	75	73	72.3
Kidder §§	Maximum	87	88	89	91	85	83	87	88	92	87	86	94	92	88	82	84	85	85	87	91	83	87	88	93	95	96	96	97	97	97	98	89.6
	Minimum	68	68	70	71	70	67	70	69	72	62	71	73	73	73	66	62	65	62	62	65	66	58	65	68	69	72	73	75	73	72	75	68.5
Lexington §§	Maximum	90	90	92	93	85	88	93	94	97	90	86	97	94	93	84	87	87	88	89	93	88	90	90	95	96	96	98	97	97	96	100	92.0
	Minimum	69	68	71	71	70	66	70	69	73	70	73	72	74	75	67	61	61	61	60	63	68	59	60	60	70	75	73	74	71	70	76	68.4
Maryville §§	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Oregon	Maximum	87	88	90	92	85	83	91	91	94	89	90	97	93	87	84	88	87	88	87	91	87	88	91	96	96	97	98	96	95	95	97	90.9
	Minimum	68	68	68	67	65	63	68	69	71	67	66	70	76	72	67	61	64	61	62	63	62	56	62	63	68	70	71	73	72	71	68	66.8
St Joseph	Maximum	89	90	91	93	86	85	93	92	96	90	92	99	95	85	84	89	87	88	88	81	89	91	96	[illegible]	96	97	97	98	96	98	100	91.9
	Minimum	70	70	73	70	68	64	72	74	76	71	71	75	78	76	67	63	67	65	63	66	66	62	67	61	73	77	76	78	76	75	70	70.3
Trenton	Maximum	88	90	93	94	86	84	92	92	93	89	86	93	92	88	86	82	84	86	86	88	90	95	95	94	94	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	89.9
	Minimum	69	76	76	70	69	67	69	69	72	66	69	75	75	74	66	62	65	64	64	62	65	61	65	65	68	72	72	75	73	72	77	69.2

ᵃ, ᵇ, ᶜ, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.


Scale of Shades.
0 to 1 inch.
1 to 2 inches.
2 to 4 inches.
4 to 6 inches.
Over 6 inches.
Based on 850 records.
NO RAIN
NO RAIN
A.T.

Daily Evaporation (inches) and Wind Movement (miles) for July, 1919, at Columbia, Mo.

Date.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Columbia*	Evaporation	162	.235	.239	.291	.304	.109	.161	.257	.302	.279	.149	.153	.263	.306	.202	.216
	Wind movement	12	15	14	18	21	15	21	16	12	25	24	21	21	23	12	27
University of Mo.†	Evaporation	.262	.276	.317	.330	.128	.160	.208	316	.197	.339	.208	.247	.297	.303	198	.204
	Wind movement	52	40	50	50	24	36	56	38	45	48	68	20	30	75	50	16

Date.		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mo.
Columbia*	Evaporation	.245	.252	.249	.188	.237	.261	.328	.240	.237	.262	.279	.220	.270	.187	.299	7.382
	Wind movement	16	10	11	9	13	25	21	11	11	15	27	22	21	10	14	533
University of Mo.†	Evaporation	.289	258	.248	.231	.310	.310	.238	.240	.353	.330	.276	.315	.193	.300	.310	8.187
	Wind movement	30	31	19	16	36	29	19	35	23	55	51	63	27	34	40	1,206

*Observations taken at 7.45 a.m., Summer Time. †Observations taken at 5.30 p. m., Summer Time. Both stations are located on the University grounds; one on the West Campus and the other about one mile southeast on the Experiment Farm. To prevent confusion of records the former will be known as "Columbia" and the latter as "University of Missouri." The equipment is the same in both cases (see Annual Summary, 1918); but the Experiment Farm station has a freer exposure to sun and wind, comparing favorably with sea horizon.

DAMAGING STORMS.

The three-day period, July 10th to 12th, was the only one of general rain during the month; on the 11th occurred the most general rain and amounts were moderate to heavy at many stations. Damage of a minor nature from high winds was reported from several stations on this date, but only one section sustained damage to any considerable extent. This embraced the eastern half of Boone County from Sturgeon on the north to Ashland on the south, and those portions of Audrain and Callaway counties west of Mexico and Fulton. Roughly, the width averaged 20 miles and the length 40 miles. Over most of this area damage was light but at several points it was quite severe and strongly evidenced tornadic action.

From a point about five and one-half miles southwest of Mexico, there was a strip three-fourths mile wide and three miles long, extending in a northwest to southeasterly direction, where barns, silos, windmills, outbuildings and trees of all sizes were blown down and demolished. Flues were blown from the houses, roofs damaged and window panes broken in; trees of the largest growth were uprooted or stripped to bare stumps; corn fields were leveled and shocked grain considerably damaged. In Centralia, travel was impossible for several hours after the storm, owing to the debris of trees littering the streets. Auxvasse and vicinity was another point of considerable damage to all kinds of property. Columbia sustained the loss of many fine trees and some damage to roofs, glass, telephone insulations, etc. Sturgeon, Mexico and Fulton also suffered some damage.

The damage to property will exceed $50,000, while the loss to crops will aggregate another $130,000. The storm occurred about noon; its direction was from the northwest towards the southeast, though damaging wind velocities were noted at all points of the compass from east through north to west. O. R. R.

OBSERVERS' REMARKS.

Fayette—A very severe straight wind on the 11th blew down scores of trees.

Gorin—From about the 12th to the end of the month hot weather prevailed.

Macon—Wheat, oats and hay harvest about completed by the 10th; about half crop. A good rain on the 12th benefited corn; there was some small hail damage. At the close of the month corn was looking fine, but rain was needed.

Mexico—There was a high wind on the 10th, and also at noon of the 11th. Considerable damage was done in the west portion of the town; houses and barns were demolished and crops blown down.

St. Catharine—There was plenty of moisture during the first half of the month but the latter half was dry. Rain began at 8.30 p. m., 31st, and continued all night. Corn is not injured to any great extent.

Warrenton—Only two good rains during the month and both close together. Corn is beginning to suffer. Chinch bugs apparently increasing.

Eldon—A great deal of fall plowing has been done.

Farmington—The drought is becoming serious as there has been but 0.32 inch of rain since the 25th of June. All crops are suffering.

Gano—A strong northwest wind on the 11th did considerable damage, It is getting very dry.

Lebanon—Most of the corn need rain, but some is in good condition.

Lockwood—This month has been hot and dry but the weather was favorable for threshing from stack and shock. Corn is beginning to suffer. Fine crop of wild hay. Apples are falling badly.

Appleton City—The weather was too dry for best results in growing crops but was good for threshing. Good hay crop.

Warsaw—This has been the driest July on record for this section. All growing crops are greatly injured.

Avalon—This has been a favorable month for farm operations generally; but rather a poor season for honey. There was a good rain on the last night, which will about make the corn crop.

Grant City—July was a good month for farm work and crop growth, and business generally.

Kidder—The month was warm and dry; we have had no rain of consequence since the 16th.

m5

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

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CLIMATOLOGICAL DATA

MISSOURI SECTION

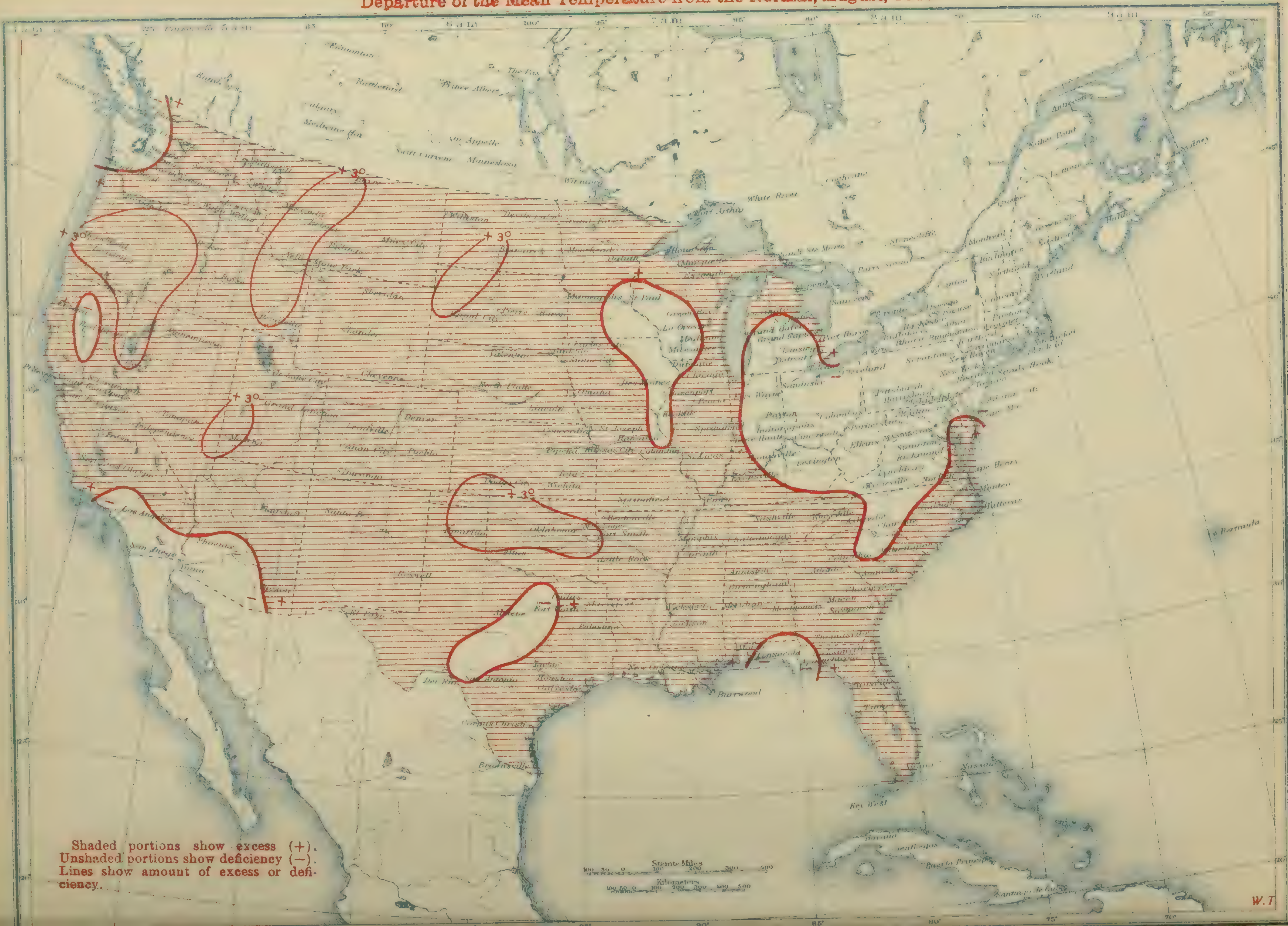
IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

AUGUST, 1919

BY
GEORGE REEDER
METEOROLOGIST

COLUMBIA, MO.,
WEATHER BUREAU OFFICE
SEPTEMBER 22, 1919.

Departure of the Mean Temperature from the Normal, August, 1919.



Shaded portions show excess (+).
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXIII. Columbia, Mo., August, 1919. No. 8

GENERAL SUMMARY.

August, 1919, in Missouri, was not altogether favorable for crops. The first half of the month averaged warmer than the normal and the latter half cooler than normal. The rainfall was unevenly distributed and fell at irregular intervals, the intervals between good rains being rather too long for best results. There was no markedly excessive heat, except on the 3, 4, 5 and 6, when the day temperatures ranged around or well over the 100° value. The last week of the month was exceptionally pleasant; in fact, except on the few days mentioned, the month was pleasant from the side of personal comfort.

At the close of the month the condition and progress of the corn crop in most of the northern half of the State was fair to good; in other sections, especially the eastern border counties and most of the southern section it was rather poor, and fast deteriorating. Wheat threshing made fair progress.

There were a few local hail and wind storms. For detail report of storms see last page.

TEMPERATURE.

The monthly mean temperature for the State, as determined from the records of 61 stations, was 75.7°. The departure from normal for 60 stations having 10 or more years' record was minus 0.50. The mean temperature was markedly above the normal only for short periods of three or four days at a time. From the 3rd to the 6th were the warmest days of the month, when maximum temperatures ranged from 95° to 100° or higher, the highest being 106° on the 6th. The coolest period was from the 25th to the 28th inclusive.

PRECIPITATION.

The average precipitation for the State, 78 stations reporting, was 4.29 inches. The departure from the normal for 70 stations having 10 or more years record was plus 0.49 inch. The precipitation fell as showers at irregular intervals, and, except on the 15th and 16th, and 27th to the 29th, were as a rule local. Drouth was more or less prevalent in the southern half of the State until the last of the month, and in most of the northern border counties. An unusually heavy rain storm occurred during the 27th, 28th and 29th in Jackson, Johnson, Pettis, Benton and portions of adjoining counties. The Blackwater River and its tributaries were in flood, and only the prevailing dry condition of the soil prevented heavy damages in some localities. Warrensburg received 11.90 inches; Lamonte, 7.00 inches, and Kansas City 5.66 inches in a twenty-four hour period on those dates.

WIND.

The prevailing winds were from the southwest. The average wind movement, based upon the records of eight well placed stations equipped with anemometers, was 5729 miles, or 7.7 miles an hour, and about 14 per cent greater than the average. A high wind occurred at St. Louis on the 20th, and at St. Joseph on 7th. For more detailed report on storms see last page.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine for the State, based upon the records of six stations equipped with sunshine recorders, was 313, or 74 per cent of the possible and about 2 per cent above normal.

MISCELLANEOUS PHENOMENA.

Fog, dense—16th, 24th and 30th. Hail—6th, 11th, 12th, 20th and 27th. Halos, solar—7th, 8th, 12th, 25th, 28th and 29th. Lunar—10th, 11th, 13th and 19th. Thunderstorms (general)—7th, 13th, 15th, 20th, 28th and 29th; (local) 4th, 5th, 6th, 11th, 12th, 16th, 21st, 24th, 25th, 26th and 30th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.97	84	......	294	69	4,564	6.1	35	nw.	15
Hannibal	29.98	80	......	......	......	5,280	7.1	34	ne.	6
Kansas City	29.96	74	54	324	77	7,071	9.5	40	n.	15
St. Joseph	29.96	81	58	261	61	4,721	6.3	50	w.	7
St. Louis	29.98	72	50	320	76	8,054	10.8	50	sw.	20
Springfield	30.00	78	57	319	76	6,542	8.8	33	n.	25
Cairo, Ill	29.98	83	65	......	......	4,943	6.6	57	n.	13
Keokuk, Iowa	29.99	76	53	359	84	4,659	6.3	22	nw.	30

COMPARATIVE DATA FOR AUGUST.

Year.	Temperature.				Precipitation.				Number of Days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	74.0	−1.6	110	48	7.25	−3.80	......	0	11	....	....	....
1889	73.5	−2.1	101	52	1.96	−1.49	......	0	14	....	....	....
1890	73.3	−2.3	104	49	4.84	+1 39	......	0	9	....	....	....
1891	73.2	−2.4	108	38	5.34	+1.89	......	0	8	....	....	....
1892	74.3	−1.3	100	40	2.42	−1.03	4.55	0	6	17	8	6
1893	72.8	−2.8	100	40	2.20	−1.25	5.60	0	4	18	10	3
1894	77.0	+1.4	111	39	1.58	−1.87	3.07	0	5	14	16	1
1895	75.3	−0.3	104	48	4.23	+0.78	3.50	0	8	15	11	5
1896	76.6	+1.0	108	41	3.25	−0.20	4.80	0	6	17	10	4
1897	74.1	−1.5	108	41	2.39	−1.06	5.00	0	6	19	9	3
1898	75.8	+0.2	103	44	3.03	−0.42	4.75	0	5	17	10	4
1899	78.8	+3.2	107	49	3.35	−0.10	4.28	0	7	18	10	3
1900	80.3	+4.7	105	52	3.51	+0.06	2.77	0	6	19	9	3
1901	78.4	+2.8	109	47	1.88	−1.57	4.33	0	5	19	9	3
1902	75.0	−0.6	103	47	6.16	+2.71	7.84	0	10	14	11	6
1903	74.4	−1.2	102	43	5.40	−1.95	6.40	0	10	16	11	4
1904	73.7	−1.9	100	43	5.46	+2.01	4.43	0	8	16	10	5
1905	76.4	+0.8	102	48	4.69	+1.24	3.94	0	8	19	7	5
1906	76.6	+1.0	101	40	4.72	+0.27	3.55	0	11	14	10	7
1907	77.3	+1.7	109	47	3.71	+0.26	6.30	0	9	17	8	6
1908	76.4	+0.8	102	46	3.87	+0.42	4.00	0	8	17	9	5
1909	79.5	+3.9	110	40	0.55	−2.90	14.21	0	2	24	6	1
1910	74.7	−0.9	103	40	2.77	−0.68	5.80	0	6	15	9	7
1911	75.4	−0.2	109	41	4.20	+0.55	5.17	0	7	15	8	8
1912	76.2	+0.6	104	41	4.19	−0.74	2 62	0	9	17	8	6
1913	82.8	+6.9	110	41	1.06	−2.51	3.51	0	3	22	7	2
1914	78.0	+1.8	106	49	4.25	+0.60	8.50	0	9	15	9	7
1915	69.8	−6.5	98	37	7.86	+4.15	8.20	0	12	12	9	10
1916	79.2	+2.9	107	41	4.05	+0.49	6.48	0	7	19	7	5
1917	73.3	−2 9	104	38	4.45	+0.94	5.20	0	9	16	8	7
1918	81.8	+5.8	111	45	3.34	−0.27	3.42	0	8	17	9	5
1919	75.7	−0.5	106	44	4.29	+0.49	7.00	0	8	17	9	5

SUPPLEMENTAL TABLE OF DATA.

Stations.	Length of record, years.	Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
		Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Arlington	15	3.44	−0.85	2.05	0	5	21	0	10	......	Wm. R. Bennett.
Boonville	41	5 83	+2.21	1.57	0	11	14	2	15	se.	C. Randecker.
C. Girardeau	11	7.10	+3.28	2.03	0	8	14	3	14	s	D. L. Albert.
Glencoe	1	5.44	....	1.90	0	6	17	10	4	......	L. M. Beard.
Hermann	44	4.07	+0.86	1.28	0	11	22	0	9	w.	W. E. Crawford.
New Madrid	24	5.77	+1.95	2.30	0	8	16	0	15	s	Miss Josie Smith.
Osceola	18	4.17	+1.08	1.84	0	9	14^e	2^e	10^e	......	Wm. E. Mathews.
Pacific	1	4.45	....	1.98	0	7	13	5	13	......	Mark Waters.
Steelville	16	2.72	−0.77	1.35	0	7	23	0	8	w.	A. Kreamelmeyer
Tuscumbia	1	5.31	....	3.35	0	8	17	4	10	s.	C. B. Wright.
Union	1	4.86	....	2.50	0	7	18	2	11	nw.	J. Wm. Keller.
Valley Park	1	5.44	....	1.85	0	5	18	5	8	......	T. W. McNeese.
Waverly	3	5.24	....	1.30	0	9	24	0	7	sw.	J. W. Cauthorn.

Climatological data for August, 1919.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip. .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	37	74.8	+1.4	101	6	53	31	35	4.56	+0.69	1.32	0	9	21	0	10	nw.	Louis Benecke.
Clifton Hill	Randolph	731	20	75.7	−0.2	100	3	50	31	34	7.10	+4.26	1.80	0	11	20	9	2	.....	L. S. Harlan.
Columbia	Boone	784	30	74.7	0.0	102	6	53	26	33	5.37	−2.33	2.11	0	11	17	10	4	ne.	U. S. Weather Bureau.
Fayette	Howard	725	32	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Prof. L. J. Abernathy
Fulton	Callaway	818	13	75.0^{c}	−2.9	103	6	49	26	37	7.23	+2.89	2.15	0	9	15^{c}	5^{c}	6^{c}	w.	Prof. Geo. B. Sweazey.
Gorin	Scotland	700	28	....	....		....	....	....	....	2.90	−0.11	1.47	0	8	11	13	7	sw.	J. W. Pulliam.
Hannibal	Marion	534	24	74.1	−0.9	99	6	54	26	31	3.83	+0.45	0.94	0	13	15	10	6	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	31	76.2	−0.6	102	6	53	27	38	3.60	+0.64	1.32	0	12	21	4	6	w.	Miss Emma Swift.
Keytesville	Chariton	660	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	J. T. Dewey, M. D.
Kirksville	Adair	969	25	72.8	−1.0	98	6	50	31	33	5.53	+2.28	3.31	0	8	18	13	0	s.	Prof. Mark Burrows.
Louisiana	Pike	469	39	74.0	−0.7	100	6	48	11	42	5.71	+2.11	1.92	0	10	19	9	3	w.	J. T. Farrell.
Macon	Macon	875	19	73.2	−3.5	99	6	49	31	37	7.40	+4.50	3.46	0	10	12	12	7	sw.	W. C. Brown.
Mexico	Audrain	797	39	73.6	−2.5	101	6	50	31	35	6.74	+3.60	1.50	0	10	24	2	5	e.	Mrs. Abbie Snoddy.
Oakfield ‡‡	Franklin	793	36	76.8	−0.2	105	6	54	26	38	3.28	−0.56	1.27	0	8	10	18	3	w.	E. E. Steines.
Palmyra	Marion	652	17	73.3	−3.4	103	6	51	31	40	4.46	+0.78	1.50	0	9	14^{a}	7^{a}	9^{a}	sw.	W. B. Markell.
St. Catherine	Linn	850	8	7.28		94	4	47	31	30	4.35	....	1.32	0	7	15	13	3	sw.	L. D. Baker.
St. Charles	St. Charles	456	39	77.3	+0.8	104	6	54	26	33	2.45	−0.59	1.05	0	5	17	9	5	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	46	77.1	−0.1	102	6	58	31	29	3.03	+0.37	1.30	0	7	18	9	4	nw.	U. S. Weather Bureau.
St. Louis (2)	.....do	578	7	77.0	−0.6	101	6	58	31	26	2.30	....	0.64	0	7	15	11	5	n.	St. Louis University.
Shelbina††	Shelby	779	25	....	....	....	....	....	....	....	6.16	+3.52	2.05	0	8	....	....	....	....	S. G. Parsons.
Steffenville	Lewis	650	24	74.8^{b}	−1.7	103	6	49	31	42	6.14	+2.55	2.00	0	10	12	18	1	sw.	Frank Hall.
Unionville	Putnam	1,072	24	7.31	−2.2	100	6	46	31	34	3.01	−0.94	1.15	0	7	14	5	12	nw.	Geo. W. Davis.
Warrenton	Warren	865	26	74.8	−1.6	104	6	52	31	32	4.60	+1.51	1.50	0	10	8	18	5	n.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	46	74.4	−0.2	97	4	53	31	28	3.85	+0.61	1.63	0	10	15	15	1	s.	U. S. Weather Bureau.
Section means and	extremes	....	....	74.8	−1.1	105	6	46	31	42	4.64	+1.42	3.46	0	9	16	10	5	sw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	26	83.4	+3.9	106	6†	62	17	36	5.10	+1.58	1.75	0	7	24	3	4	w.	H. E. Averill.
Doniphan	Ripley	344	12	78.3	+0.7	102	6	57	11	36	3.08	−1.44	1.40	0	6	20	7	4	sw.	W. W. Martin.
Jackson	Cape Girardeau	458	26	76.6	+0.3	102	6	52	11†	38	4.99	+1.43	1.80	0	6	9	14	8	s.	L. M. Bean.
Marble Hill	Bollinger	420	25	.....	......	.....	.....	...	....	....	......	....	......	......	....	....	....	....	......	W. A. Kinder.
Patton (near)	Bollinger	500	3	.....	......		....	.....	.....	....	4.55	+0.23	1.72	0	5	....	....	....	......	George F. Ellis.
Poplar Bluff	Butler	339	13	78.4	+0.3	100	6	58	10†	37	7.67	+3.68	2.00	0	11	11	7	13	......	Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill	359	44	77.2	+0.2	98	6	61	28	26	3.41	+0.48	1.09	0	7	8	14	9	s.	U. S. Weather Bureau.
Section means and	extremes	....	....	78.8	+1.1	106	6†	52	11†	38	4.80	+0.99	2.00	0	7	14	9	8	s.	
Ozark Plateau.																				
Arcadia	Iron	925	39	75.4^{a}	+0.8	104	6	51	10†	39	3.44	−0.24	1.19	0	6	15	12	4	s.	Arcadia College.
Birchtree	Shannon	1,078	23	76.7^{a}	+0.6	98	6†	56	21†	33	2.37	−2.13	0.70	0	7	23	6	2	w.	K. H. Kirkendall.
Bolivar	Polk	1,071	29	77.4	+0.3	100	6	51	31	40	3.19	−0.42	1.79	0	8	18	11	2	ne.	V. H. Brown.
Cassville	Barry	1,475	20	....	....	......	......	.....	.....	....	......	....	......	......	....	....	....	....	......	R. H. Wallen.
Dean ‡‡	McDonald	1,000	20	77.4^{a}	−0.1	100	6	56	19	35	4.55	+0.47	2.00	0	8	27	2	2	......	H. E. Dean.
Eldon	Miller	934	20	76.4	−0.2	100	4†	48	31	40	4.11	+0.16	2.20	0	6	10	17	4	sw.	E. H. Shepherd.
Farmington	St. Francois	918	8	76.8	+1.9	102	6	54	25	36	2.74	−0.54	1.05	0	6	11	17	3	sw.	Robert Forsyth.
Gano ‡‡	Dent	1,250	13	76.1	−0.4	103	6	51	31	37	3.03	−1.19	1.60	0	8	23	6	2	s.	A. C. Leach.
Goodland ††	Iron	1,000	12	74.4	−0.2	100	6	50	26†	42	3.84	−0.15	1.30	0	6	20	9	2	s.	F. M. Adams.
Hollister	Taney	735	33	......	......	......	......	.....	.....	....	2.60	−1.34	0.70	0	5	16^{a}	0^{a}	14^{a}	sw.	W. P. Chapmann.
Houston	Texas	1,280	24	......	......	..	......	.....	.....	....	3.06	−0.62	0.82	0	5	14	13	4	se.	R. F. Harmon.
Koshkonong	Oregon	958	18	78.7	+0.9	99	6	59	26	32	1.93	−2.60	0.81	0	7	13	9	9	sw.	R. M. Hitt.
Lebanon	Laclede	1,265	28	75.0	−1.5	97	6†	52	31	34	4.03	−0.58	1.48	0	10	14	15	2	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	22	78.2	+0.8	100	5	53	31	32	1.37	−2.84	0.65	0	4	23	7	1	se.	C. S. Crow.
Mountain Grove	Wright	1,490	20	74.6	−0.8	95	13	54	31	33	3.20	−1.19	1.04	0	7	15	6	10	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	34	77.8	+0.8	99	6	53	19†	38	1.87	−2.26	0.72	0	8	23	5	3	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,139	35	77.9	+2.1	99	6	52	28	34	4.40	+0.37	2.03	0	7	10	21	0	se.	Prof. Elmo G. Harris.
Springfield	Greene	1,350	30	77.2	+2.4	97	6	57	31	26	0.53	−3.78	0.20	0	6	20	8	3	s.	U. S. Weather Bureau.
Section means and	extremes	....	....	76.7	+0.5	104	6	48	31	42	2.96	−1.04	2.20	0	7	17	10	4	sw.	
Southwest Plain.																				
Amoret	Bates	831	12	76.4	−0.3	100	3†	51	31	35	3.63	+0.07	1.76	0	6	20	7	4	sw.	Darby Fruit Farm.
Appleton City	St. Clair	853	26	...	....	......	......	.....	.....	...	......	....	......	......	....	....	....	....	......	W. G. Bigelow.
Clinton	Henry	765	30	77.1	+0.2	100	6	50	26†	33	5.35	+0.14	3.50	0	6	17	13	1	sw.	A. E. Derwent, M. D.
Harrisonville ††	Cass	912	44	76.2^{a}	+0.4	101	3	53	31	34	6.46	+2.37	2.00	0	9	12	3	16	sw.	A. J. Sharp.
Lamar	Barton	980	36	78.6	+1.0	102	6	62	31	41	2.45	−1.76	0.88	0	8	18	10	3	s.	Joe W. Springer.
Lamonte	Pettis	863	30	74.3	−2.5	98	6	49	31	33	11.27	+7.78	7.00	0	9	17	9	5	sw.	J. Ed. Hall.
Marshall	Saline	779	29	74.7^{c}	−1.7	100	4†	52	31	37	4.87	+1.29	1.93	0	9	14^{c}	9^{c}	5^{c}	sw.	Dr. W. H. Black.
Nevada	Vernon	860	25	76.0	−1.1	96	24	52	18†	35	4.99	+1.59	2.73	0	9	18	9	4	s.	George A. Kaupp.
Warrensburg	Johnson	883	38	......	....	......	......	.....	......	....	......	....	......	......	....	....	....	....	......	Geo. H. Collins.
Warsaw	Benton	715	20	76.5	−1.2	100	4†	49	31	35	10.36	+6.35	5.56	0	9	16	14	1	e.	J. R. Smith, M. D.
Section means and	extremes	....	....	76.2	−0.6	102	6	49	31	41	6.17	+2.23	7.00	0	8	17	9	5	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	31	74.2	−2.4	99	3†	52	31	33	6.70	+3.17	3.70	0	7	19	11	1	sw.	F. G. Ashbaugh.
Bethany	Harrison	916	27	74.7	0.0	101	6	44	31	36	3.07	−0.92	1.35	0	8	11	13	7	sw.	M. H. Moulton.
Chillicothe ††	Livingston	768	10	74.8^{b}	−1.1	103	6	46	31	37	6.45	+1.60	1.75	0	9	19^{a}	0^{a}	11^{a}	sw.	R. L. Isherwood.
Conception	Nodaway	982	32	74.2	+0.1	102	6	52	31	33	1.91	−1.76	0.83	0	5	14	11	6	ne.	Fr. Adelhelm Hess.
Gallatin	Daviess	803	17	......	....	....	......	.....	.....	....	......	....	......	......	....	....	....	....	......	Robert R. Wynne, Jr.
Grant City	Worth	1,134	24	72.6	−2.4	103	6	51	31	34	1.73	−1.97	0.43	0	7	18	3	10	nw.	W. H. Campbell.
Kansas City	Jackson	963	28	76.6	+0.8	100	6	57	31	27	8.14	+3.39	5.66	0	9	14	11	6	s.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	26	74.2	−1.3	99	6	53	31	26	3.82	−0.02	1.56	0	9	20	7	4	sw.	J. F. Sharp.
Lexington	Lafayette	688	35	76.0	−0.1	100	6	54	26	32	4.51	+1.35	2.00	0	9	20	1	10	s.	J. W. Keithley.
Liberty	Clay	864	28	......	....	.....	......	.....	......	....	......	....	......	......	....	....	....	....	......	W. C. Wilmott.
Maryville	Nodaway	1,036	26	72.0	−1.7	101	6	47	31	37	1.79	−2.27	0.51	0	9	19	0	12	s.	J. R. Brink.
Oregon	Holt	1,048	61	72.6	−2.5	98	6	48	31	33	1.63	−2.46	0.71	0	4	16	8	7	se.	Tom Curry.
St. Joseph	Buchanan	967	45	75.4	−2.0	100	6	52	31	28	2.68	−0.98	0.83	0	6	13	11	7	se.	U. S. Weather Bureau.
Tarkio	Atchison	976	17	74.6	−1.8	101	6	48	21	35	1.21	−2.93	0.57	0	6	22	2	7	ne.	John F. Frazier.
Trenton	Grundy	822	22	7.43	−0.8	97	6	50	31	26	1.14	−2.46	0.34	0	8	11^{a}	13^{a}	6^{a}	ne.	W. H. Estes.
Section means and	extremes	....	....	74.3	−1.1	103	6	44	31	37	3.44	−0.48	5.66	0	7	17	7	7	sw.	
State means and	extremes	....	....	75.7	−0.5	106	6†	44	31	42	4.29	+0.49	7.00	0	8	17	9	5	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

† Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Oakfield, Pacific, R. F. D. No. 1; of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily precipitation for August, 1919.

Stations.	Watersheds.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Northeast Plain.																																	
Boonville ‡	Missouri	.05	.02			.08		.90					.22			.06	1.00					T.					.02	.56	1.57	1.35			5.83
Brunswick ‡	Grand	.50	.40			.12		1.32					.25			.11	1.25												.46	.15			4.56
Clifton Hill	Chariton	1.50				1.80		1.76				.28				.03	1.00				.07					.02	.08		.30	.26			7.10
Columbia***	Missouri	.14			.06	.08		1.31				.05		T.		1.17	T.				.22					T.	.07	.08	2.08	.11			5.37
Fayette	do																																
Fulton	do			2.15				1.21				.01				.03	2.13				.10					T.	.01		1.51	.08			7.23
Glencoe ‡	Meramec	.38						T.									1.90					.90							.95	1.25	.06		5.44
Gorin	Mississippi	.59		.22				1.47				.12	.19			.21						.05			.05				T.				2.90
Hannibal***	do	.26		.09	.02	.32	.51	.28				.02	.45	.06		.94					.02				.13			T.		.73			3.83
Hermann ‡	Missouri	.10	.17			.22		.53	.08							.01	1.28					.02							.83	.78	.05		4.07
Jefferson City‖	do	.01	.02			.21							.02	.02		.04	.73					.02						.06	1.32	1.10	.05		3.60
Keytesville	Chariton																																
Kirksville	Mississippi	1.57						3.31				.16	.02			.09	.25				.08								.05				5.53
Louisiana	do	.90		T.		.45		.76				T.	.92	.12			1.92				.02					.12			.04	.46			5.71
Macon ‡	Chariton	.35	.41			.09		3.46					.09	.44		.24	1.91					.04				T.			T.	.37			7.40
Mexico ‡	Mississippi	.77	1.33			1.50		1.04				T.		.10			1.25					.20						.02	.21	.32			6.74
Oakfield	Meramec	.36				.05		.09					T.				.83				.35	.05					T.		1.27	.28	T.		3.28
Pacific ‖	do		.40				.10	.05									.91					.21							.80	1.98			4.45
Palmyra ‡	Mississippi				.09	.49		1.50		.06			T.	.77		T.	.42					.14				.14				.85			4.46
St. Catherine	Grand	1.00						1.08				.32	T.			1.32	.36				.17						.10						4.35
St. Charles	Missouri	.55				T.		T.					T.				.38				.10								.37	1.05	T.		2.45
St. Louis (1)***	Mississippi	.54				T.		.01					T.	T.		.18					1.25	.05							.31	.69			3.03
St. Louis (2)	do	.64				T.	T.	.01					T.	T.		.17					.42	.05							.37	.64			2.30
Shelbina	do																																
Steffenville	do	1.75				.25		2.00				T.	.40	.25		.25	.32				.40	.05								.47			6.14
Union‖	Meramec		.29			.02											2.50					.20							.98	.84	.03		4.86
Unionville	Chariton	.90	.15	T.				1.15				T	.30	T.			.28					.20							.06				3.04
Valley Park‖	Meramec		.90			T.		T.						T			1.85			T.	.20								1.05	1.44			5.44
Warrenton‖	Mississippi	.37	.20			.20		.45					T.	.02			1.27					.08							.50	1.50	.01		4.60
Keokuk, Iowa***	do	.04		.14		.08	1.52					.03	1.45	.18		.22					.05				.14				T.				3.85
Southeast Lowlands.																																	
Cape Girardeau‖	Mississippi	1.22	.23												2.03		1.83					.36				.42			.63	.38			7.10
Caruthersville	do	.22	.11												T.	.27	1.62				.15	T.		T.				T.	.98	1.75			5.10
Doniphan	Black	.10												T.		.37	.62				T			.24					.35	1.40			3.08
Jackson	Mississippi	.20												1.37		1.80					.37				.42				.83				4.99
Marble Hill	do																																
New Madrid‖	do	.28	.68												.90		2.30						.01						.10	.40	1.10		5.77
Patton (near)	do	.73																			.59	1.34							1.72	.17			4.55
Poplar Bluff ‖	Black	.94	.28						.41						1.25	.04	1.01						T.	.09	T.	T.			2.00	1.10	.55		7.67
Cairo, Ill.***	Mississippi	.45					T.							1.09		T.	1.08				T.			.02	.02				.71	.04	T.		3.41
Ozark Plateau.																																	
Arcadia‖	St. Francis		.14											T.			.60					.77						.51	1.19	.23			3.44
Arlington‖	Gasconade		.32					T.	T.							T.	.50					T.						T.	2.05	.41	.16		3.44
Birchtree	Black	.20	.60																.70				.14					.23	.18	.32			2.37
Bolivar	Osage		.29			1.79									T.	.10					.15						.18	.18	.32	.18			3.19
Cassville	White																																
Dean	Neosho	.02						.04							.76	.12	2.00				.65							.53		.43			4.55
Eldon	Osage															.35	.08										.07	1.38	2.20	.03			4.11
Farmington	St. Francis	1.05															.32				.17	.18						T.	.88	.14	T.		2.74
Gano	Meramec	.18						.05								.08	.10				.62							.33	1.30	.37			3.03
Goodland	Black	.65															.89				.50	.12							1.30	.38			3.84
Hollister	White	.70	.60													.40					.70						.20						2.60
Houston	Gasconade	.24													.95					.30							T.	T.	.75	.82			3.06
Koshkonong	Black	.21	.30					.19								.21	.81					.09						T.		.12			1.93
Lebanon ‖	Osage			.04		.12	.29									.70	.06					.03						.17	1.48	1.11	.03		4.03
Lockwood	do														.13						.49					.10		.65					1.37
Mountain Grove‖	White		T.				.10		.22							.33	1.04					.36						T.	.11	1.04	T.		3.20
Neosho	Neosho	T.						.05							.31	.06	.36				.72		T.	.02		T.		.15		.20			1.87
Rolla ‖	Meramec		.69			T.	T	.60								.08	.45	T.				T.						.08	2.03	.47		T.	4.40
Springfield***	White		T.			T									.11	.09					.13					.02	T.	.16	T.	.02	T.		0.53
Steelville‖	Meramec							.07								.05	.45					.33						.03	1.35	.44			2.72
Tuscumbia‖	Osage		.08			.26										.20	.02										T.	.94	3.35	.45	.01		5.31
Southwest Plain.																																	
Amoret	Osage	.01				1.76								T.	T.		T.				.21					T.		.02	1.35	.28			3.63
Appleton City	do																																
Clinton	do		.15			.15										1.05					.20						.30		3.50				5.35
Harrisonville‖	do	.21				.89		.01								.60	1.12										.58	.20	2.00	.85			6.46
Lamar‖	Neosho					.22										.27					.18	.45					.10	.88		.28	.07		2.45
Lamonte	Missouri	.30			T.	.15						.12	T.			2.30	.85									.10	.35	.10	7.00				11.27
Marshall	do	T.				.15		.30				.05					1.53									.20	.28	.33	1.93	.10			4.87
Nevada	Osage	.25				2.73									.70	.02					.48					.02		.46	.03	.30			4.99
Osceola‖	do					1.52										.07	.05				.07	.11						.08	.15	1.84	.28		4.17
Warrensburg	Missouri																																
Warsaw‖	Osage	.98	.04													3.25	.15				.10					.06	.17		5.56	.05			10.36
Waverly‖	Missouri	.17	T.			.77		.39					T.	T.		.46	.93					T.					.23	.78	1.30	.21			5.24
Northwest Plateau.																																	
Avalon	Grand						2.30					.18			1.50	2.22										.08	.14	.30					6.70
Bethany	do	1.35						.10				.20	T.			.35	.35			T.	.15					T.	.50		.07				3.07
Chillicothe‖	do	1.25	.30			.28		1.00					.15			1.40	1.75				.12							.20					6.45
Conception	Missouri	.17										T.	T.			.83				T.	T.					.39	.49	.03					1.91
Gallatin	Grand																																
Grant City	do	.34					T.					.32	.10		.24					T.	.15					T.	.43	T.	.15				1.73
Kansas City***	Missouri	.61			T.			T.				.23	.01		.93	.22										.35	.13	1.60	4.06				8.14
Kidder‖	Grand	1.06	.05		.02			1.56									.42				.02						.21	.42	.06				3.82
Lexington‖	Missouri	.20				.25		T.								.18	.70					.02					.25	.32	2.00	.59			4.51
Liberty	do																																
Maryville‖	do	.32						.07			T.	.02		.08			.22				.02					T.	.46	.51	.09				1.79
Oregon	do											.05	T.			.40										.47	.71						1.83
St. Joseph***	do	.09						.44				T.	T.			.61					T.					.48	.83	T.	.23				2.68
Tarkio	do												.07			.03				.02						.51	.57	.01					1.21
Trenton	Grand	.02			T.		.11				.08	T.			.13	.34					.26					.02	.18	T.	T.				1.14

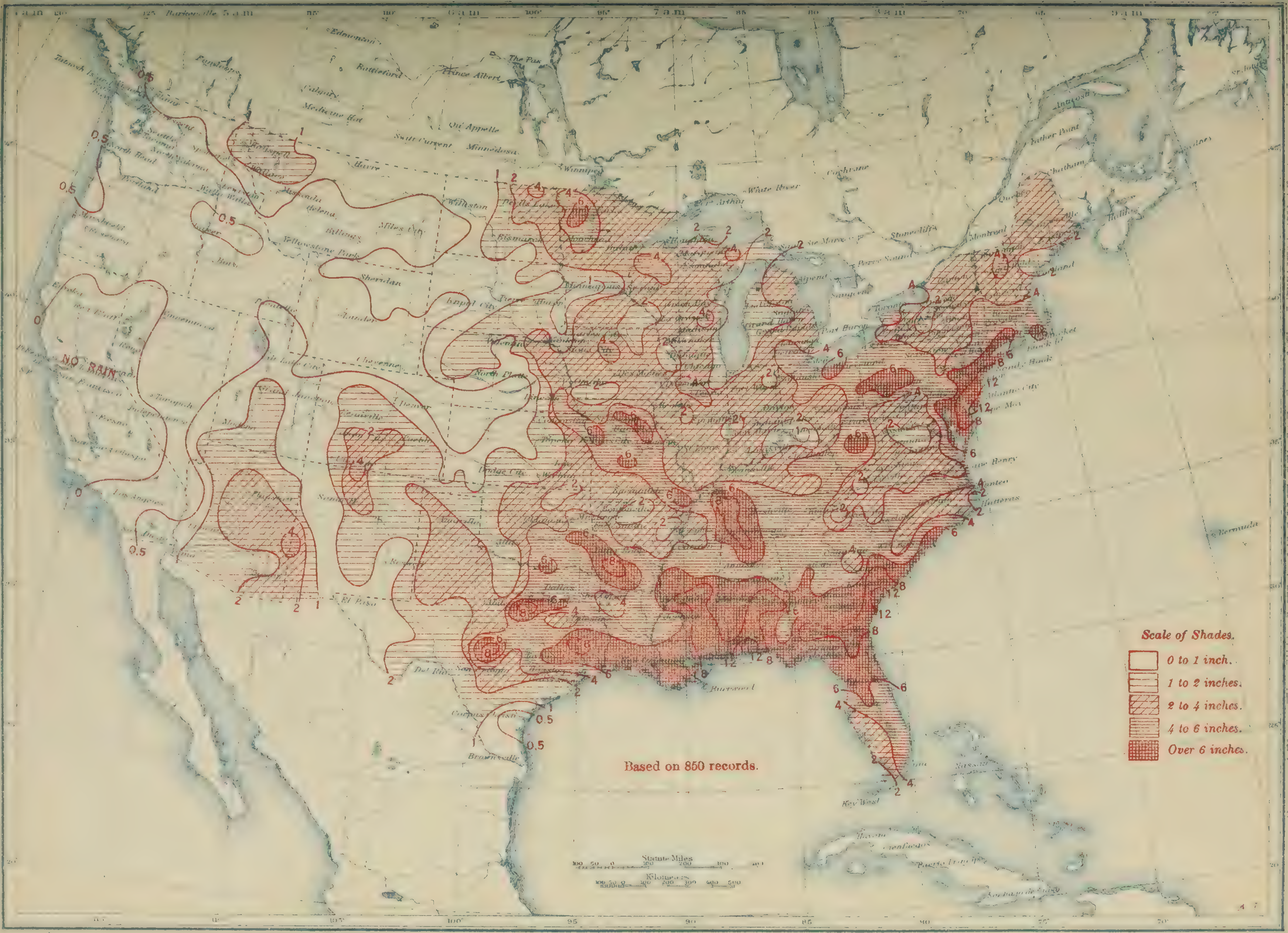
Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. **Precipitation in the next following measurement. ‡ Separate dates of fall not recorded

Daily temperatures for August, 1919.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum...	81	86	99	100	99	101	90	87	83	86	87	89	90	95	91	89	87	88	82	87	91	86	87	93	71	71	79	72	87	85	82	87.1
	Minimum...	72	60	61	73	70	71	69	65	62	59	64	62	67	60	60	59	60	60	59	60	60	60	67	66	58	58	55	62	62	62	53	62.5
Columbia	Maximum...	78	84	97	97	95	102	88	85	78	83	86	91	85	94	90	86	84	83	83	83	88	88	87	90	76	71	78	69	83	82	75	85.1
	Minimum...	69	61	69	73	72	78	68	66	63	60	66	69	65	61	66	64	61	61	59	66	64	66	66	68	57	53	61	62	66	60	53	64.3
Fayette	Maximum...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Hannibal	Maximum...	79	82	90	96	93	99	87	82	77	81	83	79	85	90	90	85	83	83	85	79	88	87	87	87	75	77	79	77	82	83	76	84.1
	Minimum...	66	61	65	73	71	68	68	66	61	60	62	67	68	63	68	63	64	63	60	69	65	66	68	63	58	54	62	64	66	61	54	64.1
Jefferson City §§	Maximum...	88	87	99	99	98	102	91	90	85	88	91	98	92	98	99	92	87	89	88	82	92	92	92	94	84	79	79	67	87	85	76	89.4
	Minimum...	73	63	63	68	69	70	70	66	64	59	61	63	65	60	62	63	64	62	60	60	63	67	65	67	62	55	53	55	63	63	54	63.0
Kirksville	Maximum...	90	81	92	93	95	98	92	82	77	79	83	82	84	88	88	86	83	83	83	82	87	86	83	82	75	76	79	83	83	84	77	84.4
	Minimum...	68	55	65	69	70	65	67	64	59	55	62	64	70	63	64	58	58	58	59	54	58	66	66	67	52	52	57	60	61	60	50	61.3
Louisiana	Maximum...	98	95	90	96	94	100	96	86	82	80	82	82	83	90	92	86	86	83	86	83	89	86	87	83	86	80	80	76	78	82	80	86.4
	Minimum...	70	55	60	74	70	75	66	62	50	51	54	56	68	48	68	64	62	65	57	65	64	60	68	55	64	56	60	62	65	60	58	61.7
Macon §§	Maximum...	80	84	95	97	95	99	88	86	80	84	85	81	85	90	90	86	83	84	85	84	88	85	86	77	77	75	81	76	83	82	79	85.2
	Minimum...	70	54	58	73	69	70	66	63	58	55	61	62	66	64	64	58	60	58	59	62	60	61	65	67	55	55	57	59	61	61	49	61.3
Mexico §§	Maximum...	74	84	96	98	95	101	87	85	80	85	81	86	87	95	92	88	85	82	82	79	81	90	90	90	75	74	80	72	85	84	77	85.3
	Minimum...	70	56	61	69	69	71	67	63	60	58	60	64	67	60	63	64	63	60	59	61	62	63	65	66	57	52	53	60	61	62	50	61.8
Oakfield	Maximum...	88	85	94	102	98	105	91	89	83	88	89	93	96	100	99	88	90	87	89	81	90	94	92	92	81	80	80	73	86	87	77	89.3
	Minimum...	70	57	57	74	72	71	68	64	59	58	62	67	71	62	70	62	64	61	61	64	67	67	65	69	59	54	62	59	64	64	63	64.2
St. Catharine	Maximum...	90	80	90	94	93	97	90	83	77	81	82	83	84	88	90	85	86	84	82	83	87	84	83	85	75	72	80	80	80	82	77	84.1
	Minimum...	68	58	66	72	70	75	66	63	60	55	62	68	70	62	67	57	60	58	56	63	58	64	67	61	56	56	56	56	57	57	47	61.6
St. Louis (1)	Maximum...	84	81	90	97	96	102	90	86	81	83	85	86	91	93	95	88	85	84	86	83	88	90	88	90	79	80	81	74	85	85	74	86.5
	Minimum...	69	61	65	77	74	77	73	70	61	61	66	69	75	71	66	68	69	68	69	66	68	70	69	70	65	63	67	60	67	65	58	67.7
Unionville	Maximum...	85	84	94	95	94	100	92	85	80	84	86	82	86	90	89	86	84	85	80	86	90	87	84	81	80	78	82	83	82	83	80	85.7
	Minimum...	67	52	64	70	71	74	64	60	56	52	60	63	66	62	66	60	56	60	57	63	60	64	62	66	52	50	55	58	60	58	46	60.5
Warrenton §§	Maximum...	71	83	92	100	99	104	89	85	80	86	88	85	89	97	95	89	85	85	86	75	91	93	91	83	78	77	80	72	86	84	76	86.3
	Minimum...	71	55	60	69	70	72	67	65	58	57	59	64	70	63	70	63	64	62	63	63	67	65	65	69	59	56	59	59	60	62	52	63.2
Southeast Lowlands.																																	
Caruthersville	Maximum...	101	96	102	103	102	106	106	101	97	98	99	102	102	98	97	92	98	98	98	94	90	86	86	98	97	91	90	91	90	93	83	96.3
	Minimum...	77	74	72	76	76	76	76	76	71	68	66	66	71	72	72	68	62	70	68	68	72	71	68	70	72	65	65	65	68	70	63	70.1
Doniphan	Maximum...	98	89	95	99	99	102	100	95	90	90	93	95	99	91	94	91	93	89	90	89	88	86	81	92	88	81	80	86	88	89	79	90.9
	Minimum...	72	70	69	72	74	70	70	70	69	62	57	60	63	67	68	68	61	60	59	61	68	67	69	68	70	58	62	64	65	65	60	65.7
Jackson	Maximum...	89	88	92	99	99	102	100	93	86	89	90	95	99	93	90	91	90	90	88	89	90	89	85	94	87	85	82	82	80	88	84	90.3
	Minimum...	71	65	62	69	72	71	70	66	64	53	52	57	66	64	65	66	61	56	56	58	58	64	69	69	64	52	59	62	65	66	56	62.8
Marble Hill	Maximum...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Poplar Bluff	Maximum...	98	90	92	97	98	100	98	92	89	89	91	97	97	90	92	88	93	90	88	89	89	85	89	94	88	84	81	84	89	90	81	90.7
	Minimum...	72	68	66	72	72	77	77	69	76	58	58	60	65	65	67	67	62	60	60	62	67	69	69	69	69	58	62	65	64	66	58	66.1
Ozark Plateau.																																	
Arcadia §§	Maximum...	93	87	93	98	98	104	95	92	85	87	90	89	98	94	96	90	92	89	85	86	89	87	82	93	84	83	81	79	86	87	....	[a]89.7
	Minimum...	74	65	62	65	73	71	71	64	64	51	51	52	60	57	59	66	60	56	55	56	59	62	63	67	65	51	52	61	62	63	57	61.1
Birchtree	Maximum...	96	88	91	94	94	98	93	92	90	86	90	94	98	92	92	88	91	84	....	91	89	89	88	92	89	85	82	85	85	85	78	[a]89.6
	Minimum...	70	70	65	71	71	70	70	68	62	59	58	61	70	62	66	66	60	60	57	59	56	64	64	66	67	56	62	62	62	65	58	63.8
Cassville	Maximum...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Eldon	Maximum...	90	91	99	100	98	100	98	93	90	90	92	98	92	93	97	97	91	90	93	88	97	93	95	97	99	80	77	74	85	80	77	91.4
	Minimum...	70	63	64	69	66	72	69	60	60	54	57	65	68	55	64	60	64	59	59	61	63	62	63	65	59	49	58	60	60	59	48	61.5
Farmington	Maximum...	93	95	90	99	94	102	93	88	88	89	86	88	96	97	96	87	87	84	83	83	91	90	88	91	85	84	81	80	94	88	76	89.2
	Minimum...	71	65	61	73	74	74	73	67	62	57	58	61	71	61	60	65	66	64	59	62	67	64	68	68	54	64	63	64	64	66	54	64.5
Gano	Maximum...	91	87	96	99	98	103	96	89	85	90	93	96	98	93	94	89	90	88	91	79	89	90	81	93	84	81	80	83	84	86	76	89.4
	Minimum...	71	62	65	72	68	73	67	64	60	55	56	64	73	59	65	62	63	58	55	62	66	65	65	67	61	53	58	62	62	64	51	62.8
Hollister	Maximum...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Koshkonong	Maximum...	96	93	97	95	95	99	95	92	90	92	93	96	97	90	92	90	92	90	91	91	85	82	88	91	90	89	85	88	86	90	85	91.1
	Minimum...	69	67	68	67	74	76	74	70	66	60	62	65	70	66	68	66	64	65	63	63	66	68	66	68	67	59	61	64	66	68	60	66.3
Lebanon §§	Maximum...	88	81	95	95	94	97	93	89	85	86	90	95	93	85	91	86	88	85	87	78	82	86	85	91	83	79	81	82	86	83	74	86.9
	Minimum...	74	68	66	72	69	70	74	63	62	60	60	62	68	58	57	63	62	56	56	58	66	66	66	65	64	55	54	62	63	63	52	63.0
Mountain Grove §§	Maximum...	92	78	92	92	90	94	92	88	86	85	86	89	95	82	89	85	87	88	87	75	85	86	81	89	84	83	82	82	84	85	76	86.1
	Minimum...	71	69	67	71	70	71	73	67	64	57	59	57	62	59	57	60	60	58	57	58	63	66	64	65	65	58	61	62	62	65	54	63.0
Neosho	Maximum...	95	93	95	95	98	99	98	92	90	92	93	97	95	90	92	88	92	90	91	88	84	84	84	88	92	90	90	91	88	89	80	91.1
	Minimum...	73	70	68	71	67	69	69	67	60	60	62	63	73	57	70	66	62	59	53	64	66	63	67	66	65	58	65	69	65	63	53	64.6
Rolla	Maximum...	92	87	95	95	95	99	95	89	87	87	91	95	95	91	95	95	88	86	91	89	93	92	90	93	93	85	81	82	85	84	84	90.3
	Minimum...	73	75	68	68	69	72	78	78	63	57	69	65	75	75	62	63	65	58	59	63	59	62	63	65	62	58	54	52	62	68	72	65.5
Springfield	Maximum...	91	80	94	93	96	97	92	87	84	85	89	93	91	85	90	88	91	84	88	76	83	80	82	90	87	85	84	84	83	84	75	86.8
	Minimum...	74	71	70	71	70	77	76	71	66	64	66	70	73	66	67	67	65	64	62	66	67	67	66	69	66	61	63	67	69	67	57	67.6
Southwest Plain.																																	
Amoret	Maximum...	90	88	100	100	96	98	91	88	86	87	95	98	92	82	95	92	94	90	91	88	90	88	86	90	82	80	86	83	85	86	78	89.5
	Minimum...	70	68	68	72	67	72	71	67	63	59	67	68	70	55	66	59	62	55	59	63	62	62	66	68	56	54	60	62	63	59	51	63.4
Appleton City	Maximum...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Clinton	Maximum...	90	87	98	99	97	100	96	90	88	90	95	97	93	88	90	94	90	88	91	89	92	86	77	93	90	88	84	86	85	87	80	90.6
	Minimum...	72	66	68	73	70	74	74	65	64	60	65	66	74	57	60	61	61	57	58	65	63	66	70	65	62	50	55	60	60	60	50	63.6
Harrisonville §§	Maximum...	88	85	101	100	95	98	92	89	85	89	96	97	90	83	92	90	88	88	92	92	90	81	85	91	78	76	77	73	85	83	....	[a]88.3
	Minimum...	71	68	67	73	70	72	73	64	63	60	63	69	73	57	63	59	61	58	58	63	59	61	68	67	65	56	69	61	63	61	53	64.1
Lamar §§	Maximum...	92	89	98	97	101	102	94	91	90	94	97	99	94	81	95	94	96	91	96	84	88	85	86	90	91	88	88	91	86	86	80	91.4
	Minimum...	74	72	70	72	70	75	75	65	65	62	66	66	75	62	69	62	61	56	55	66	69	64	67	66	66	58	63	63	64	67	52	65.7
Lamonte	Maximum...	83	85	97	97	96	98	91	86	82	85	80	82	88	82	86	92	87	85	89	85	90	87	90	95	82	70	76	71	85	81	77	85.8
	Minimum...	73	65	71	74	69	75	70	59	61	60	59	62	64	60	55	59	60	55	59	66	75	67	64	67	58	51	59	61	62	59	49	62.8
Marshall	Maximum...	87	87	99	100	97	100	91	87	83	87	87	94	88	95	94	89	85	....	86	85	....	85	85	91	....	71	64	62	85	81	77	[c]86.5
	Minimum...	71	62	63	72	70	74	70	65	61	58	60	67	71	58	63	58	58	....	59	64	....	64	65	....	61	57	59	59	61	59	52	[c]62.9
Warrensburg	Maximum...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Warsaw	Maximum...	88	87	98	100	97	100	94	90	87	88	94	97	91	88	94	90	89	86	90	85	91	89	89	92	85	76	80	82	86	85	76	89.2
	Minimum...	75	64	69	72	71	75	75	58	65	61	59	65	79	53	62	62	61	56	56	63	65	65	67	65	63	54	60	60	65	64	49	63.8
Northwest Plateau.																																	
Chillicothe §§	Maximum...	81	95	100	99	99	103	94	89	85	87	90	85	92	95	92	90	88	90	85	87	91	88	87	94	75	72	78	77	88	87	....	[a]88.8
	Minimum...	69	60	63	66	70	71	68	63	59	56	63	63	63	59	65	59	57	55	58	60	57	58	68	67	57	54	52	62	61	57	46	60.8
Grant City	Maximum...	....	82	96	95	98	103	92	86	85	87	89	87	89	94	87	77	74	75	82	89	92	85	88	83	77	72	75	79	83	82	80	[a]82.7
	Minimum...	70	57	68	70	68	75	70	63	60	56	62	67	65	60	66	58	58	60	62	64	58	66	67	65	58	53	60	58	60	58	51	62.4
Kansas City	Maximum...	79	83	98	97	97	100	90	84	80	88	93	95	87	89	89	89	87	87	87	89	90	81	84	90	72	73	75	68	80	82	72	85.6
	Minimum...	71	66	72	74	73	81	74	69	66	61	73	74	70	67	67	63	68	65	68	72	67	69	70	72	58	61	61	61	62	63	57	67.6
Kidder §§	Maximum...	82	80	95	92	95	99	86	83	80	82	88	82	85	90	82	86	85	85	82	86	88	83	84	88	72	65	73	74	78	81	77	83.5
	Minimum...	71	62	70	73	69	77	74	64	61	56	65	71	67	65	72	60	60	59	66	65	60	68	70	70	60	57	62	61	64	61	53	64.9
Lexington §§	Maximum...	80	85	98	97	97	100	92	83	84	88	92	93	90	93	91	90	87	87	86	86	90	82	87	92	75	67	75	67	84	84	78	86.5
	Minimum...	71	65	69	75	70	78	71	62	62	58	66	72	74	63	68	58	63	63	61	68	61	69	69	68	63	54	59	63	62	63	59	65.4
Maryville §§	Maximum...	78	81	98	93	95	101	90	87	82	84	92	78	90	91	86	89	86	88	77	88	89	86	89	86	73	67	74	76	82	81	78	85.0
	Minimum...	69	58	58	63	66	66	66	59	60	56	56	61	62	58	59	55	55	57	57	62	52	52	65	65	60	55	56	59	59	56	47	59.0
Oregon	Maximum...	79	80	94	92	93	98	90	86	84	83	89	83	85	91	89	86	84	85	83	88	87	84	86	90	76	67	73	75	78	79	75	84.3
	Minimum...	69	61	67	72	67	75	67	62	59	55	64	69	62	61	58	53	56	55	60	64	55	67	65	66	55	54	56	59	58	50	48	60.9
St Joseph	Maximum...	81	83	97	96	95	100	90	86	82	87	92	83	88	93	86	88	86	87	85	90	89	83	86	90	73	66	73	74	78	80	77	85.3
	Minimum...	70	65	72	74	72	81	70	65	64	60	70	74	66	65	62	60	62	61	62	67	61	72	70	69	59	58	60	62	62	61	52	65.4
Trenton	Maximum...	96	80	92	95	91	97	95	88	80	82	84	82	83	88	85	82	82	82	80	85	85	85	86	84	78	72	78	78	78	79	76	84.1
	Minimum...	70	60	68	72	76	77	70	62	62	63	64	68	67	64	62	60	62	64	60	65	68	69	68	67	59	54	60	62	63	63	50	64.5

a, b, c, etc., indicate respectively 1, 2, etc., days missing from the record

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.


Scale of Shades.
0 to 1 inch.
1 to 2 inches.
2 to 4 inches.
4 to 6 inches.
Over 6 inches.
Based on 850 records.
NO RAIN
Statute Miles
Kilometers

Daily Evaporation (inches) and Wind Movement (miles) for August, 1919, at Columbia, Mo.

Date.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Columbia*	Evaporation	.264	.115	.227	.264	.288	.264	.269	.268	.264	.241	.205	.134	.139	.233	.263	.420
	Wind movement	36	26	22	20	27	18	40	35	34	30	19	12	23	29	28	35
University of Mo.†	Evaporation	.286	.251	.173	.430	.154	.360	.352	.164	.403	.177	.257	.143	.323	.233	253	.488
	Wind movement	50	42	54	45	51	44	130	34	65	121	78	68	43	49	49	65

Date.		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mo
Columbia*	Evaporation	.216	.344	.120	.118	.134	.230	.185	.147	.221	.134	.108	066	.130	.103	.175	6.292
	Wind movement	24	34	22	18	13	16	19	14	23	17	13	11	11	13	22	707
University of Mo.†	Evaporation	.311	253	.171	.139	.271	.208	.194	.198	.240	.076	.072	.058	.132	.195	.243	7.202
	Wind movement	74	60	48	32	65	31	37	27	33	20	9	45	62	47	37	1,615

*Observations taken at 7.45 a. m., Summer Time. †Observations taken at 5.30 p. m., Summer Time. Both stations are located on the University grounds; one on the West Campus and the other about one mile southeast on the Experiment Farm. To prevent confusion of records the former will be known as "Columbia" and the latter as "University of Missouri." The equipment is the same in both cases (see Annual Summary, 1918); but the Experiment Farm station has a freer exposure to sun and wind, comparing favorably with sea horizon.

OBSERVERS' REMARKS.

Brunswick—On the 16th there was an unusual heavy thunderstorm and strong wind.

Gorin—The month ended dry.

Kirksville—There was a violent rain and wind storm on the 7th, which damaged much grain in the stack and shock.

Macon—The rain of the 7th, was very beneficial to corn generally and especially late crops. With threshing nearly done, corn safe from frost and everything looking fine, this section never presented a better outlook.

Mexico—High winds on the nights of the 6th, 7th and 15th.

Oakfield—Very high west wind veering to the Northeast during the night of the 15th-16th, blew down corn. On the 15th, Leopold Schneider was killed by lightning in Pacific. On the 29th, the barn of Fred Gaehle of St. Louis county, was struck by lightning and one horse was killed and the barn and contents were burned.

St. Catherine—On the 15th, rain fell at an excessive rate, one inch and twenty hundredths in twenty minutes. Corn in this county is good and is still green but it needs sunshine. Clover is in bloom and will make seed.

Warrenton—The first half of the month was warm and dry. The rains of the last half were accompanied by cooler weather and also put the ground in condition for fall plowing.

Caruthersville—The rains of the 15th and 16th actually made cotton and corn crop for the entire county.

Farmington—The first twenty days of the month were a continuation of the drouth conditions of July. The few showers and cloudy weather of the last ten days were reviving especially to pastures.

Houston—We are having some cool nights and days and also some rains which are very beneficial.

Lebanon—The corn crop was badly injured during August on account of the lack of moisture, and will not make an average crop.

Lockwood— August was a very dry month but was favorable for threshing. The corn crop is a failure and the ground is too hard to plow. Wheat acreage will be less this year.

Lamonte—Some wheat is still in the shock and the loss is heavy. Much corn in the bottoms damaged by overflows and practically all corn damaged by wind. Little plowing done for wheat. Heavy winds and rain did much damage to fruit and trees.

Warsaw—The drouth the fore part of the month did great damage, but the rains of the last half did much good. Largest monthly rainfall since August 1906.

Avalon—A very favorable month. Corn crop is splendid and pastures good except for the rank growth of weeds. Honey bees doing well at present.

Grant City—The past month was favorable for threshing and all farm work, but was too dry for plowing.

Kidder—The first seven days of the past month were cloudy and rainy with high temperature. The second week was clear with moderate temperature and the month closed clear with low temperature.

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

MISSOURI SECTION

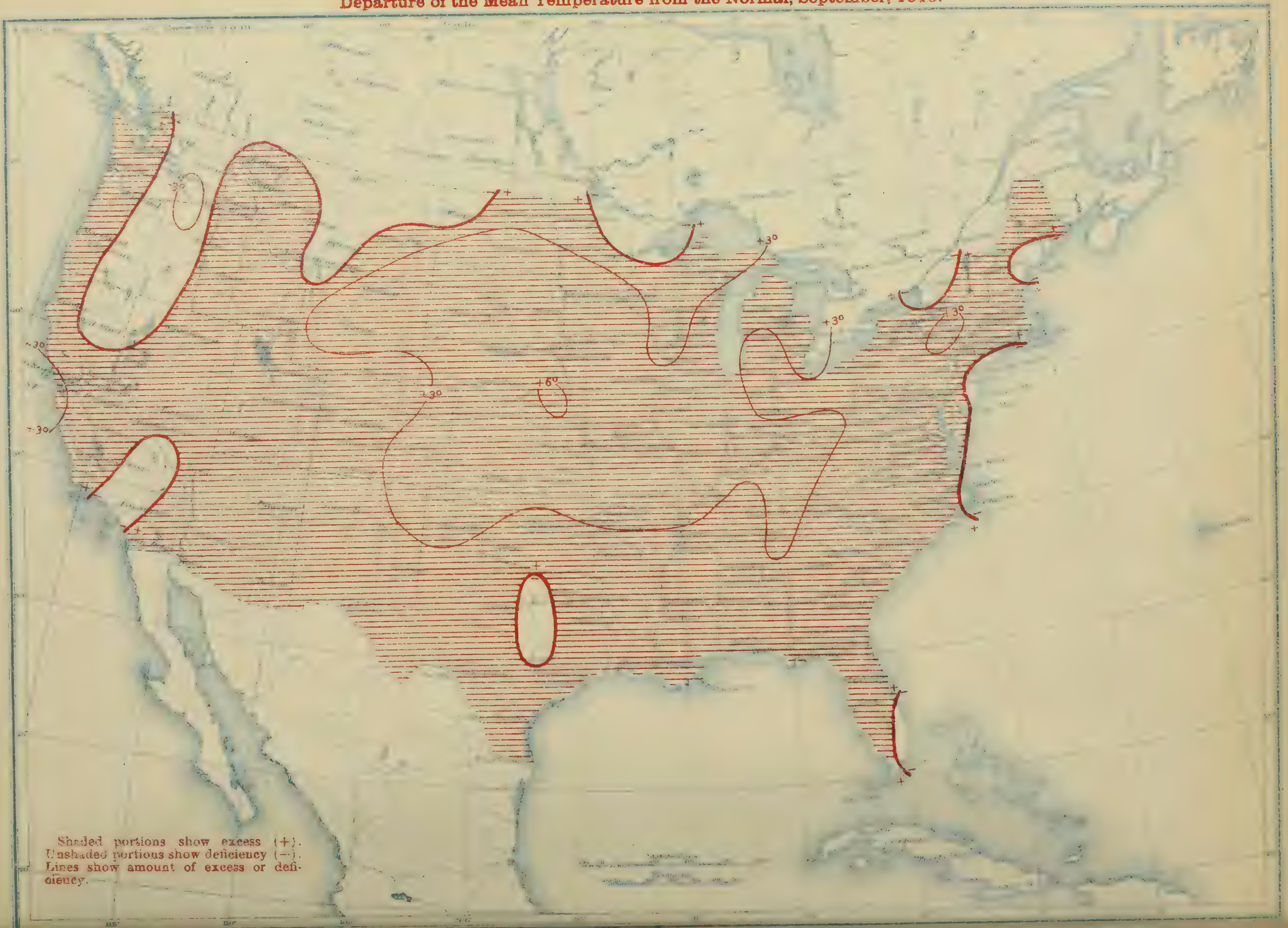
IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

SEPTEMBER, 1919

BY
GEORGE REEDER
METEOROLOGIST

COLUMBIA, MO.,
WEATHER BUREAU OFFICE

Departure of the Mean Temperature from the Normal, September, 1919.



Shaded portions show excess (+).
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXIII. Columbia, Mo., September, 1919. No. 9

GENERAL SUMMARY.

September, 1919, in Missouri, was unusually warm with a large amount of sunshine. The rainfall was deficient in most of the southern half of the State, but was amply sufficient over the northern half during the latter half of the month. There were no frosts, hail, or damaging general wind storms.

The weather was generally favorable for the maturing of late crops. It also was favorable for farm work, except rather too dry in the Southwest for satisfactory plowing and preparing the ground for wheat seeding; in other sections, however, this work made satisfactory progress. At the close of the month the bulk of the corn crop was safe from frost damage.

TEMPERATURE.

The monthly mean temperature for the State, 65 stations reporting, was 71.4°. The departure from the normal for 64 stations having 10 or more years' record was plus 2.7°. It was the warmest September since 1911. The 10th was the warmest day, with maximum readings of 100° or higher at 13 stations, and near that value at all others. The 24th to the 26th was the coolest period, though there were few days in the month much below normal values. There was no injurious frost.

PRECIPITATION.

The average precipitation for the State, as determined from the records of 81 stations, was 3.29 inches. The departure from the normal for 74 stations having 10 or more years' record was minus 0.54 inch. The first ten days were practically rainless, and there were no general showers until the 17th, and 18th. During the last ten days showers were more frequent and general. The total monthly amounts were nearly normal in the northwest and southeast sections; about 12 per cent above the normal in the northeast section, and decidedly deficient in most of the Ozarks, and southwestern counties. Some heavy to excessive local rains occurred on the 18th, 20th, 21st, 28th, and 29th. The greatest local monthly fall was 8.66 inches, at Mexico, Audrain County. Drought was prevalent in the southwestern quarter of the State.

WIND.

The prevailing winds were from the south. The total number of miles, as determined from 8 stations equipped with anemometers, was 5874 miles, or an average hourly velocity of about 8.2 miles. This is about 5 per cent greater than normal. General brisk winds prevailed on the 18th, and a strong local wind occurred at St. Louis on the 20th, and in the eastern part of Audrain County on the 28th.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 regular stations with sunshine recorders reporting, was 286, or 76 per cent of the possible and about 11 per cent above normal.

MISCELLANEOUS PHENOMENA.

Halos, solar—15th, 16th, and 19th; lunar—16th. Thunderstorms—10th, 11th, 16th, 17th, 18th, 19th, 20th, 21st, and 28th.

SUPPLEMENTAL TABLE OF DATA.

Stations.	Length of record, years.	Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
		Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Arlington	15	1.50	−2.00	1.00	0	2	15	0	15	......	Wm. R. Bennett.
Boonville	41	2.33	−2.43	0.71	0	5	17	7	6	se.	C. Randecker.
C. Girardeau	11	4.12	+2.19	2.52	0	5	20	1	9	e.	D. L. Albert.
Glencoe	1	2.90	....	1.95	0	4	22	4	4	......	L. M. Beard.
Hermann	44	4.00	−0.02	1.13	0	6	23	0	7	s	W. E. Crawford.
New Madrid	24	3.01	−0.31	2.20	0	4	19	5	6	se.	Miss Josie Smith.
Osceola	18	1.86	−2.53	0.83	0	4	19	4	7	......	Wm. E. Mathews.
Pacific	1	2.29	....	1.08	0	4	17	3	10	......	Mark Waters.
Steelville	16	2.62	−0.61	1.22	0	4	23	0	7	s.	A. Kreamelmeyer
Tuscumbia	1	2.23	....	0.95	0	5	18	4	8	s	C. B. Wright.
Union	1	1.94	....	0.73	0	6	14	9	7	nw.	J. Wm. Keller.
Valley Park	1	3.68	....	2.00	0	4	..	..	..	......	T. W. McNeese.
Waverly	3	1.79	....	0.92	0	4	23	0	7	sw.	J. W. Cauthorn.

COMPARATIVE DATA FOR SEPTEMBER.

Year.	Temperature.				Precipitation.				Number of Days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	65.2	−3.7	97	28	1.11	−2.56	......	0	4	....	....	....
1889	64.7	−4.2	94	31	4.66	+0.99	......	0	11	....	....	....
1890	63.7	−5.2	98	34	3.98	+0.31	......	0	9	....	....	....
1891	70.6	+1.7	104	30	0.63	−3.04	......	0	6	....	....	....
1892	67.8	−1.1	97	32	2.39	−1.26	3.00	0	4	19	6	5
1893	69 9	+1.0	107	26	3.92	+0.25	5.20	0	6	17	7	6
1894	68.5	−0.4	101	34	4.93	+1.26	3.07	0	5	13	11	6
1895	71.8	+2.9	104	25	2.45	−1.22	6.21	0	4	19	8	3
1896	65.0	−3.9	101	28	4.17	+0.50	4.40	0	10	11	10	9
1897	74.3	+5.4	105	27	0.74	−2.93	2.13	0	2	23	5	2
1898	70.9	+2.0	103	30	6.74	+3.07	6.10	0	9	15	9	6
1899	67.4	−1.5	108	16	2.04	−1.63	3.01	0	4	20	6	4
1900	71.1	+2.2	100	29	4.81	+1.14	3.79	0	10	13	10	7
1901	68.9	0.0	103	27	2.31	−1.36	2.80	0	6	18	8	4
1902	63.2	−5.7	95	30	4.78	+1.11	6.55	0	10	15	6	9
1903	66.4	−2.5	98	32	4.41	+0.74	6.77	0	8	17	6	7
1904	69.6	+0.7	96	34	3.85	+0.18	2.46	0	3	16	8	6
1905	69.6	+0.7	98	41	7.67	+4.00	7.90	0	10	15	6	9
1906	71.9	+3.0	98	36	4.15	+0.48	4.28	0	11	15	8	7
1907	68.9	0.0	101	31	1.93	−1.74	2.25	0	6	18	7	5
1908	71.6	+2.7	99	28	1.80	−1.87	2.68	0	4	18	8	4
1909	68.7	−0.2	105	28	4.62	+0 95	4.48	0	8	18	6	6
1910	69.5	+0.6	97	34	5.53	+1.91	4.63	0	10	14	6	10
1911	73.7	+4.6	105	39	7 13	+3.46	7.75	0	11	13	7	10
1912	68.6	−0.3	105	27	3.06	−0 61	3.61	0	9	17	5	8
1913	69.4	+0.5	109	27	4.63	+0.79	4 08	0	9	13	7	10
1914	69.6	+0.5	99	35	6.27	+2.52	9.22	0	9	15	8	7
1915	70.6	+1.5	98	34	5.25	+1.51	5.91	0	7	16	7	7
1916	67.8	−1.5	101	27	2.94	+0.86	2.80	0	6	19	7	4
1917	67.9	−1 2	101	33	2.78	−1.09	4.13	0	5	19	6	5
1918	62.3	−6.7	96	29	4.73	+0.77	6.61	0	7	17	6	7
1919	71.4	+2.7	104	38	3.29	−0.54	4.93	0	5	20	6	4

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
								Max. velocity.		
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Miles per hour.	Direction.	Date.
Columbia	30.02	83	......	282	76	4,653	6.5	36	sw.	18
Hannibal	30.02	83	......	.....	......	5,806	8.1	39	sw.	18
Kansas City	29.99	74	53	288	77	7,232	10.0	33	se.	18
St. Joseph	29.98	81	59	281	75	5,072	7.0	24	se.	26
St. Louis	30.02	68	51	282	76	8,130	11.3	48	s.	20
Springfield	30.03	77	54	279	75	6,641	9.2	35	s.	18
Cairo, Ill	30.03	80	63	......	......	4,697	6.5	32	sw.	19
Keokuk, Iowa	30.03	78	51	305	80	4,765	6.6	29	se.	18

Climatological data for September, 1919.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip. .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	39	71.2	+5.1	100	10	46	23†	43	4.82	+0.49	1.43	0	7	23	0	7	se.	O.K. Benecke.
Clifton Hill	Randolph	731	20	71.6	+3.0	97	10	41	23	43	4.78	+0.92	2.75	0	6	22	4	4	.....	L. S. Harlan.
Columbia	Boone	781	30	71.1	+3.3	96	10	48	23	33	3.31	+0.46	1.24	0	7	20	4	6	se.	U. S. Weather Bureau.
Fayette	Howard	725	36	70.2	+1.8	96	10	49	1†	35	3.11	−1.60	1.28	0	6	22	1	7	.....	.....
Fulton	Callaway	818	28	72.0	+3.2	94	9†	43	26	41	3.08	−1.14	1.98	0	6	21	1	8	w.	Prof. Geo. B. Sweazey.
Gorin	Scotland	760	32	.....	.....	.....	.....	.....	.....	.....	3.55	−0.86	1.21	0	5	16	6	8	sw.	J. W. Pulliam.
Hannibal	Marion	534	27	70.6	+3.7	95	10	49	23	37	3.28	−0.28	1.48	0	5	18	6	6	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	31	71.1	+2.1	98	10	47	27	37	4.10	+0.84	1.32	0	5	26	1	3	s.	Miss Emma Swift.
Kirksville	Adair	969	38	69.8	+3.8	92	9	44	23	32	3.30	−1.13	1.55	0	6	20	8	2	s.	Prof. Mark Burrows.
Louisiana	Pike	469	39	70.9	+3.0	98	10	42	13†	53	5.63	+1.79	2.40	0	8	26	2	2	sw.	J. T. Farrell.
Macon	Macon	875	26	69.2	+0.8	94	10	42	26	41	2.93	−1.15	0.95	0	7	21	2	7	sw.	W. C. Brown.
Mexico	Audrain	797	41	70.0	+1.2	99	10	45	26	42	8.66	+4.25	4.93	0	8	23	0	7	e.	Mrs. Abbie Snoddy.
Oakfield ‡‡	Franklin	793	34	73.2	+3.4	101	10	47	26	35	3.01	−0.87	2.47	0	4	13	12	5	s.	E. E. Steines.
Palmyra	Marion	652	20	69.6	+1.0	96	4†	47	1†	39	4.43	+0.72	2.17	0	7	18	5	7	sw.	W. B. Markell.
St. Catherine	Linn	850	8	70.0	.....	94	10	41	15	48	2.58	.....	1.25	0	6	20	6	4	sw.	L. D. Baker.
St. Charles	St. Charles	456	41	74.8	+7.6	100	10	52	12†	30	6.40	+3.32	2.89	0	6	20	6	4	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	46	73.6	+3.6	96	10	50	26	26	6.13	+3.22	3.73	0	6	20	7	3	sw.	U. S. Weather Bureau.
St. Louis (2)	.....do	578	7	73.3	+3.7	96	10	51	26	27	6.25	+1.88	3.73	0	6	23	4	3	s.	St. Louis University.
Shelbina††	Shelby	779	26	.....	.....	.....	.....	.....	.....	.....	4.38	+0.74	1.28	0	5	.....	.....	.....	.....	S. G. Parsons.
Steffenville	Lewis	650	26	72.2	+3.5	100	10	44	26	41	2.65	−1.58	0.95	0	6	14	13	3	w.	Frank Hall.
Unionville	Putnam	1,072	26	69.8	+2.5	91	9	42	12†	40	3.89	−0.79	2.25	0	5	17	4	9	n.	Geo. W. Davis.
Warrenton	Warren	865	29	70.9ᵃ	+2.1	99	10	44	26	35	4.24	+0.28	1.68	0	7	16ᵃ	9ᵃ	4ᵃ	s.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	47	70.8	+4.4	94	9	47	26	32	4.69	+0.72	1.44	0	5	18	7	5	s.	U. S. Weather Bureau.
Section means and	extremes	.....	.....	71.2	+3.1	101	10	41	15†	53	4.31	+0.47	4.93	0	6	20	5	5	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	28	78.4	+5.4	104	10	51	24	38	2.02	−1.08	1.50	0	3	27	1	2	e.	H. E. Averill.
Doniphan	Ripley	314	15	72.4	+1.8	97	10	46	24†	37	3.05	−0.50	1.55	0	4	25	2	3	sw.	W. W. Martin.
Jackson	Cape Girardeau	458	29	72.3	+2.6	101	10	43	24	42	4.70	+1.13	2.60	0	5	17	9	4	s.	L. M. Bean.
Marble Hill	Bollinger	420	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. A. F Hendricks.
Patton (near)	Bollinger	500	9	.....	.....	.....	.....	.....	.....	.....	3.31	−0.09	1.75	0	4	.....	.....	.....	.....	George F. Ellis.
Poplar Bluff	Butler	339	15	73.7	+2.8	100	10	46	24	37	5.01	+1.75	2.04	0	4	15	10	5	.....	Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill	359	44	73.8	+3.6	95	10	52	24	27	1.80	−0.67	1.34	0	4	12	11	7	s.	U. S. Weather Bureau.
Section means and	extremes	.....	.....	74.1	+3.2	104	10	43	24	42	3.32	+0.09	2.60	0	4	19	7	4	s.	
Ozark Plateau.																				
Arcadia	Iron	925	41	68.9	+1.4	98	10	43	24†	44	4.87	+1.21	1.50	0	5	14	11	5	s.	Arcadia College.
Aurora	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	George Hutchinson.
Birchtree	Shannon	1,078	25	72.3ᶜ	+2.9	98	10	45	24	36	2.49	−1.07	1.24	0	3	19ᶠ	2ᶠ	3ᶠ	.....	K. H. Kirkendall.
Bolivar	Polk	1,071	32	72.4	+2.9	102	10	39	13	52	0.73	−3.42	0.31	0	3	21	6	3	s.	V. H. Brown.
Cassville	Barry	1,475	20	68.9	+0.1	101	3	38	11†	45	1.24	−2.88	1.20	0	2	22	7	1	s.	R. H. Wallen.
Dean ‡‡	McDonald	1,000	20	70.6ᵃ	−0.1	96	10	42	13†	46	1.70	−1.99	0.88	0	3	21ᵃ	3ᵃ	5ᵃ	sw.	H. E Dean.
Eldon	Miller	934	20	69.0ᵇ	−0.4	96	11	42	26	46	3.48	−0.31	1.71	0	5	15	13	2	s.	E.H. Shepherd.
Farmington	St Francois	918	22	72.6	+3.9	99	10	46	24	38	4.92	+1.67	1.57	0	7	20	8	2	sw.	Robert Forsyth.
Gano ‡‡	Dent	1,250	18	70.4	+1.0	96	10	44	26	39	2.80	−1.43	1.40	0	5	24	4	2	s.	A. C. Leach.
Goodland ††	Iron	1,000	26	69.3	+2.1	98	10	40	24	41	3.00	−0.78	1.12	0	5	20	8	2	s.	F. M. Adams.
Hollister	Taney	735	15	74.0	+2.5	102	10	45	13†	44	3.20	−0.47	1.30	0	5	21	0	9	sw.	W. P. Chapmann.
Houston	Texas	1,280	26	71.6ᶠ	+3.1	95	10	43	13	37	3.65	−0.43	2.50	0	3	25	4	1	se.	R. F. Harmon.
Koshkonong	Oregon	958	18	74.2	+3.5	98	10	50	12	38	1.87	−1.63	1.05	0	5	22	3	5	sw.	R. M. Hitt.
Lebanon	Laclede	1,265	33	69.2	−0.3	94	10	41	13†	42	1.79	−2.22	0.89	0	4	21	6	0	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	23	73.5	+2.4	97	10	45	13	48	0.30	−3.75	0.27	0	2	22	1	7	sw.	C. S. Crow.
Mountain Grove	Wright	1,490	21	70.7	+2.4	97	10	43	13	46	1.96	−2.13	1.48	0	4	16	5	9	s.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	36	71.5	+1.3	95	10	41	13†	49	1.98	−2.20	1.12	0	8	20	6	4	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,139	35	71.7	+4.1	96	12	45	3	42	1.84	−1.99	0.76	0	4	23	7	0	s.	Prof. Elmo G. Harris.
Springfield	Greene	1,350	31	72.6	+4.7	95	10	52	22	29	1.62	−2.14	1.25	0	4	20	7	3	s.	U. S. Weather Bureau.
Section means and	extremes	.....	.....	71.3	+2.1	102	10	38	11†	52	2.41	−1.44	2.50	0	4	20	6	4	s.	
Southwest Plain.																				
Amoret	Bates	831	12	71.6	+3.2	99	10	45	23†	46	1.26	−2.71	0.81	0	3	16	10	4	sw.	Darby Fruit Farm.
Appleton City	St. Clair	853	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. G. Bigelow.
Clinton	Henry	765	32	72.6	+2.6	99	10	41	24	43	2.55	−1.14	1.75	0	4	23	-	2	sw.	A. E. Derwent, M. D.
Harrisonville ††	Cass	912	44	70.9ᶜ	+2.6	100	10	46	24	39	1.02	−3.41	0.64	0	3	12ᵇ	6ᵇ	10ᵇ	s.	John H. Patterson.
Lamar	Barton	980	38	73.8	+3.3	100	10	45	24	41	1.98	−2.29	1.55	0	2	22	6	2	s.	Joe W. Springer.
Lamonte	Pettis	863	32	70.6	+0.6	98	10	44	12†	45	1.81	−2.77	1.00	0	3	23	6	1	sw.	J. Ed. Hall.
Marshall	Saline	779	30	71.9	+3.8	98	10	45	24	39	2.81	−2.18	1.14	0	3	21ᵇ	4ᵇ	3ᵇ	sw.	Dr. W. H. Black.
Nevada	Vernon	860	27	71.2	+2.3	96	10	48	13†	35	0.89	−3.27	0.53	0	3	20	5	5	s.	George A. Kaupp.
Warrensburg	Johnson	883	42	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Geo. H. Collins.
Warsaw	Benton	715	23	71.0	+1.1	99	10	42	24	40	3.30	−0.87	2.00	0	5	21	9	0	e.	J. R. Smith, M. D.
Section means and	extremes	.....	.....	71.7	+2.4	100	10	42	24	46	1.95	−2.30	2.00	0	3	20	6	4	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	22	71.6	+2.0	100	10	47	26	39	3.30	−1.65	1.30	0	4	19	5	6	sw.	F. G. Ashbaugh.
Bethany	Harrison	916	28	70.3	+3.6	95	9	41	23	41	5.55	+1.77	2.70	0	7	19	5	6	sw.	M. H. Moulton.
Chillicothe ††	Livingston	768	11	70.2ᵃ	−0.2	98	10	43	23	47	2.85	−3.63	1.10	0	4	20	0	10	s.	R. L. Isherwood.
Conception	Nodaway	982	35	71.2	+4.2	97	9	46	23	36	6.05	+2.28	2.93	0	7	17	5	8	sw.	Fr. Adelhelm Hess.
Edgerton	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. Killingsworth
Gallatin	Daviess	803	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grant City	Worth	1,134	29	71.0	+4.0	97	9	45	23	36	5.00	+1.05	2.40	0	6	22ᵃ	2ᵃ	5ᵃ	s.	W. H. Campbell.
Kansas City	Jackson	963	30	72.4	+4.9	96	10	51	23	29	2.26	−1.50	1.73	0	5	20	4	6	s.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	31	69.4	+1.9	96	10	47	23†	38	2.80	−1.23	0.90	0	6	23	0	7	sw.	J. F. Sharp.
Lexington	Lafayette	688	36	71.8	+3.4	96	10	48	12†	41	1.70	−2.81	0.62	0	6	23	0	7	s.	J. W. Keithley.
Liberty	Clay	864	29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	James H. Harris
Maryville	Nodaway	1,036	26	67.4	+2.0	95	9	41	23†	42	5.43	+1.19	2.65	0	7	21	0	9	s.	J. R. Brink.
Oregon	Holt	1,048	63	68.7	+1.6	94	9	42	23	32	6.09	+2.41	1.75	0	6	16	7	7	s.	Tom Curry.
St. Joseph	Buchanan	967	45	71.2	+2.5	94	9	49	23	34	4.40	+1.05	1.78	0	7	20	3	7	s.	U. S. Weather Bureau.
Tarkio	Atchison	976	27	70.8	+4.6	96	9	45	23	35	4.91	+1.43	3.03	0	5	20	3	7	sw.	John F. Frazier.
Trenton	Grundy	822	24	69.8	+2.3	90	9†	46	23	32	3.31	−0.92	0.95	0	6	21	3	6	s.	W. H. Estes.
Section means and	extremes	.....	.....	70.4	+2.8	100	10	41	23†	47	4.13	−0.04	3.03	0	6	20	3	7	s.	
State means and	extremes	.....	.....	71.4	+2.7	104	10	38	11†	53	3.29	−0.54	4.93	0	5	20	6	4	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ᵃ, ᵇ, ᶜ, appearing in the table indicate number of days missing; for example, ᵇ represents two days, etc.

† Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Oakfield, Pacific, R.F. D. No. 1; of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily precipitation for September, 1919.

Stations.	Watersheds.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville	Missouri											.43							.12	.60	.71		.47							T.			2.33
Brunswick	Grand																	.24	.05	.60		.60	.50						1.40	1.43			4.82
Clifton Hill	Chariton																.28	.02	.38	.55		.80							2.75				4.78
Columbia***	Missouri										.10	.33						.40	1.08	.03		1.24							.13				3.31
Fayette	......do										.66						.03	T.	.58	.27	T.	1.28							.32				3.14
Fulton	......do											.32							.27	.45	.01	1.98	.05										3.08
Glencoe	Meramec											T.								.30		1.95	.05							.60			2.90
Gorin	Mississippi										.16							.59	.54			1.02							1.24				3.55
Hannibal***	......do										T.							.19	1.39	.10	T.	1.19							.41	T.			3.28
Hermann	Missouri											1.01							.11	.80		.85	1.13							.10			4.00
Jefferson City ‖	......do											1.10							.10	.43		1.15	1.32										4.10
Kirksville	Chariton										.06							.22	1.55	.20		.77							.50				3.30
Louisiana	Mississippi											.51						.09	.46	.52		.55	1.00						2.40	.10			5.63
Macon	......do																	.25	.36	.68		.95	.21						.38	.10			2.93
Mexico ‡	Chariton											.75						.02	.15	1.28		1.30	.21						.02	4.93			8.66
Oakfield	Mississippi										T.							T.	T.	.33	.17	2.47							.04				3.01
Pacific ‖	Meramec																		T.	.30		.80	1.08							.11			2.29
Palmyra ‖	......do																	.06	.46	.98		2.17	.35				.06			.35			4.43
St. Catherine	Mississippi																.15	.12	.68	.15		1.25							.23				2.58
St. Charles	Grand							T.			T.								.23	.63	.05	2.89							2.50	.10			6.40
St. Louis (1)***	Missouri										.68							T.	.30	.01	.07	1.34							3.73				6.13
St. Louis (2)	Mississippi										.65								.31	.02	.15	1.39							3.73				6.25
Shelbina	......do																	.60	.40	1.10		1.28							1.00				4.38
Steffenville	......do										.05							.15	.55	.75		.95							.20				2.65
Union ‖	......do											.15						.18		.43		.39	.73							.06			1.94
Unionville	Meramec											T.						T.	1.10	1.15		.50	.52						.62	T.	T.		3.89
Valley Park ‡	Chariton																		.18	.50		1.00								2.00			3.68
Warrenton ‡	Meramec										.15							.01	.10	.55		1.10	.65							1.68			4.24
Keokuk, Iowa***	Mississippi										.15							.50	1.37		T.	1.23							1.44	T.			4.69
	......do																																
Southeast Lowlands.																																	
Cape Girardeau ‡	Mississippi											.41	T.								.53	2.52	.63	.03									4.12
Caruthersville	......do							.10												T.		.42	1.50										2.02
Doniphan	Black											T.							.15		.95	1.55	.40										3.05
Jackson	Mississippi											.40				T.			.25		2.60	1.12	.33										4.70
Marble Hill	......do																																......
New Madrid ‖	......do																					.53	2.20	.10							.18		3.01
Patton (near)	......do										.06								.35		1.75	1.15											3.31
Poplar Bluff ‡	Black																			.59		2.03	2.04	.35						T.	T.		5.01
Cairo, Ill.***	Mississippi							.01				T.							T.		.82	.88	.09										1.80
Ozark Plateau.																																	
Arcadia ‖	St. Francis											1.40	T.							.78		1.50	1.18							.01	T.		4.87
Arlington ‡	Gasconade											.50								T.		T.	1.00										1.50
Birchtree	Black																				.71	1.24	.54										2.49
Bolivar	Osage																	.14	.28	T.		.31											0.73
Cassville	White																.04					1.20											1.24
Dean	Neosho											T.					.13		.88		T.	.69							T.	T.			1.70
Eldon	Osage											.12						.33	1.30		.02	1.71											3.48
Farmington	St. Francis											1.16							.37	.36	.87	1.57	.54							.05			4.92
Gano	Meramec											1.10							.08	.22	T.	1.12	.28						T.				2.80
Goodland	Black											.65								.78	.39	1.12	.06										3.00
Hollister	White											1.00							.20		.20	1.30	.50										3.20
Houston	Gasconade											.70							T.	.45	T.	2.50											3.65
Koshkonong	Black											T.							.10		.32	1.05	.38							.02			1.87
Lebanon ‡	Osage											T.							T.	.89		.29	.21							.40			1.79
Lockwood	......do											.03								.27													0.30
Mountain Grove	White												.14							.18		.16	1.48							T.			1.96
Neosho	Neosho											.03					1.12	.15	.23	.04	.04	T.	.34						.03				1.98
Rolla	Meramec											.47								.27		.34	.76										1.84
Springfield***	White											T.							.23	.14	.32	.93							T.				1.62
Steelville ‖	Meramec											.55								.25		.60	1.22										2.62
Tuscumbia ‖	Osage											.28							.44	.45		.95	.11										2.23
Southwest Plain.																																	
Amoret	Osage										.81								.20			.25											1.26
Appleton City	......do																																......
Clinton	......do											.20						.30	.30			1.75											2.55
Harrisonville ‡	......do											.06						T.		.32		T.	.64										1.02
Lamar	Neosho											T.								.43		1.55											1.98
Lamonte	Missouri											T.						.60	.21			1.00							T.				1.81
Marshall	......do										T.							T	.75			1.14							.92	T.			2.81
Nevada	Osage											.10							.53			.26							T.				0.89
Osceola ‖	......do											T.							.32	.43		.83	.28										1.86
Warrensburg	Missouri																																......
Warsaw ‖	Osage											.05						.75	.45	.05		2.00											3.30
Waverly ‖	Missouri																	T.	T.	.92		.37	.43						.07				1.79
Northwest Plateau.																																	
Avalon	Grand																	.50	.60			1.30							.90				3.30
Bethany	......do										.10							.30	2.70	.20		1.10							.60	.55			5.55
Chillicothe ‖	......do																		.30	.70		1.10							.75				2.85
Conception	Missouri										T.						.29	.47	2.93	.04		.91							1.35	.06			6.05
Gallatin	Grand																																......
Grant City	......do																	.57	2.40		.08	1.33							.57	.05			5.00
Kansas City***	Missouri																	.04	.44	T.		1.73							.04	.01			2.26
Kidder	Grand																	.07	.48	.78		.90							.55	.02			2.80
Lexington ‡	Missouri																	.09	.06	.18		.55	.62						.20				1.70
Liberty	......do																																......
Maryville ‡	......do																	.20	1.80	2.65		.50	.10							.15	.03		5.43
Oregon	......do																**	**	3.07			1.27							1.75				6.09
St. Joseph***	......do																.07	.35	1.05		.04	1.74						.01	1.14	T.			4.40
Tarkio	......do																	.64	3.03	.03		1.00							.24				4.94
Trenton	Grand										T.						.16	.53	.95		.93	.42						.32					3.31

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. **Precipitation in the next following measurement. ‡ Separate dates of fall not recorded

Daily temperatures for September, 1919.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	83	84	87	88	90	90	92	93	95	100	89	83	84	92	93	86	80	81	93	87	74	75	76	85	77	83	77	83	75	91	....	85.5
	Minimum	50	49	52	51	59	59	63	67	62	67	66	53	50	49	53	53	64	63	63	65	63	49	46	46	50	46	48	68	66	64	....	56.9
Columbia	Maximum	77	78	81	84	87	88	89	90	91	96	85	75	78	86	89	82	86	82	87	88	76	71	72	80	71	78	79	81	78	88	....	82.4
	Minimum	19	53	56	59	61	66	67	70	69	71	62	52	52	53	56	61	66	64	67	69	57	51	48	50	53	50	56	70	67	68	....	59.8
Fayette	Maximum	78	79	81	81	85	87	88	89	91	96	83	76	79	87	89	82	81	80	87	87	71	70	74	81	70	78	76	78	76	87	....	81.7
	Minimum	49	51	54	59	57	61	66	66	67	68	67	51	49	52	54	62	67	63	65	68	62	50	49	49	54	49	53	67	67	64	....	58.7
Hannibal	Maximum	78	80	84	84	88	88	90	91	93	95	83	77	79	87	86	87	71	82	88	87	77	70	72	81	69	75	80	72	73	88	....	81.8
	Minimum	49	50	56	60	62	67	72	71	69	72	57	52	52	50	54	60	64	62	67	72	57	53	49	52	55	49	56	66	65	64	....	59.5
Jefferson City §§	Maximum	80	82	84	85	87	88	89	92	94	98	87	76	80	86	90	87	89	84	89	87	74	72	75	80	72	80	81	84	81	88	....	84.0
	Minimum	50	50	53	56	59	59	66	67	67	70	68	53	50	51	53	60	62	63	64	67	69	51	51	50	51	48	47	56	68	68	....	58.2
Kirksville	Maximum	79	80	83	84	83	87	88	91	92	89	83	77	80	86	87	87	80	74	87	86	79	70	72	80	71	76	76	77	75	80	....	81.5
	Minimum	50	52	55	63	59	60	67	67	69	74	61	49	48	54	57	61	66	60	61	76	56	48	44	50	49	45	55	66	60	61	....	58.1
Louisiana	Maximum	83	81	86	83	90	92	92	93	95	98	95	88	83	96	92	90	85	88	88	87	88	82	73	82	76	76	75	80	76	88	....	86.1
	Minimum	44	50	46	54	54	60	58	68	66	68	65	43	42	43	46	55	62	62	68	68	65	44	47	50	55	42	52	63	67	64	....	55.7
Macon §§	Maximum	81	81	84	87	88	88	90	91	92	94	85	81	82	88	89	85	76	80	89	87	70	72	73	82	73	79	76	77	75	88	....	82.8
	Minimum	50	51	55	55	57	59	64	68	69	71	63	47	46	47	48	60	63	59	60	65	62	47	45	46	47	42	44	54	67	61	....	55.7
Mexico §§	Maximum	81	82	85	87	89	90	92	94	94	99	85	79	81	89	92	82	83	85	85	88	79	72	74	83	72	79	81	70	80	88	....	84.1
	Minimum	48	49	50	55	58	59	63	68	68	70	67	48	46	47	52	53	62	60	61	66	63	49	47	47	50	45	46	54	64	66	....	56.0
Oakfield	Maximum	78	82	84	88	91	91	91	95	97	101	99	76	81	80	94	92	86	91	91	91	76	73	74	82	73	78	84	81	88	91	....	85.7
	Minimum	54	56	58	59	63	64	67	69	71	72	69	54	52	57	59	65	65	61	67	70	64	54	49	48	54	47	53	65	67	68	....	60.7
St. Catharine	Maximum	80	82	85	87	88	87	88	90	93	94	84	79	81	87	89	83	77	75	89	85	81	70	73	81	77	76	71	79	77	86	....	82.5
	Minimum	48	53	53	63	60	61	66	67	77	71	72	47	49	52	41	63	66	59	63	70	54	47	44	46	48	46	55	63	62	60	....	57.5
St. Louis (1)	Maximum	77	80	82	84	88	89	90	92	94	96	86	75	79	86	89	87	81	88	88	83	74	71	73	79	72	75	81	78	84	89	....	83.0
	Minimum	60	61	61	68	67	69	72	74	77	70	65	57	55	63	66	71	68	64	68	71	61	57	56	55	57	50	59	64	69	69	....	64.2
Unionville	Maximum	82	84	88	89	90	91	90	93	94	90	85	81	81	90	91	90	80	74	90	86	80	72	74	83	74	78	72	76	76	86	....	83.8
	Minimum	48	50	52	60	58	62	66	64	66	70	62	42	46	50	51	58	62	60	62	66	57	46	45	50	44	42	56	62	55	56	....	55.7
Warrenton §§	Maximum	80	83	85	87	89	90	91	95	94	86	....	77	80	89	91	86	79	86	88	87	76	69	73	80	71	77	79	78	82	87	....	[a]83.4
	Minimum	53	53	57	60	60	62	66	68	71	69	52	....	50	54	59	65	66	60	61	66	64	52	50	50	52	44	45	52	65	67	....	[a]58.4
Southeast Lowlands.																																	
Caruthersville	Maximum	87	88	90	96	98	97	97	101	101	104	97	89	95	100	100	96	98	98	99	95	87	80	78	83	86	85	92	84	91	96	...	92.9
	Minimum	57	57	55	59	64	66	70	72	72	73	75	63	57	66	68	72	65	68	65	71	71	62	59	51	53	56	56	64	67	64	....	63.9
Doniphan	Maximum	78	79	82	85	88	90	90	92	95	97	91	78	84	93	95	92	92	92	92	86	76	71	72	77	80	79	81	85	86	88	....	85.5
	Minimum	50	49	50	53	56	60	62	66	67	67	70	61	48	56	63	68	61	65	74	69	68	58	53	46	46	54	50	61	67	62	....	59.3
Jackson	Maximum	79	82	86	89	92	90	91	91	98	101	93	88	84	92	92	83	93	92	93	89	80	74	73	82	80	80	88	88	90	93	....	87.6
	Minimum	46	47	48	52	55	58	61	66	64	65	69	57	46	54	61	57	57	66	70	69	68	57	52	43	46	44	46	55	66	66	....	57.0
Marble Hill	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Poplar Bluff	Maximum	81	83	85	88	89	89	90	93	96	100	96	79	87	96	95	91	92	95	95	89	82	76	78	81	82	72	85	87	88	92	....	87.7
	Minimum	50	50	51	55	58	60	64	67	68	69	72	58	50	59	61	64	63	62	72	70	66	59	54	46	50	50	51	60	68	62	....	59.7
Ozark Plateau.																																	
Arcadia §§	Maximum	77	78	81	85	87	88	88	92	92	98	88	73	78	89	90	87	86	87	89	76	77	71	73	79	77	77	81	84	83	87	....	83.3
	Minimum	45	41	45	48	50	51	58	65	66	66	66	52	44	45	54	59	59	61	64	68	69	56	49	43	44	43	44	47	63	64	....	54.5
Birchtree	Maximum	81	81	84	85	88	88	88	91	97	98	90	89	84	91	94	91	86	....	91	84	80	70	80	81	78	....	81	....	90	89	....	[c]86.3
	Minimum	50	50	52	53	57	63	61	....	....	68	60	55	49	57	64	64	67	....	66	67	65	56	51	45	53	....	53	....	63	65	....	[e]58.3
Cassville	Maximum	91	97	101	92	92	97	97	97	96	97	83	83	82	77	77	77	92	90	90	92	83	84	85	85	84	81	84	84	80	80	....	87.7
	Minimum	41	40	44	49	45	59	59	62	60	59	38	38	38	43	45	45	68	61	60	60	40	47	42	44	42	44	53	63	59	56	....	50.1
Eldon	Maximum	80	80	83	85	87	90	85	91	95	95	96	78	81	90	85	86	....	....	88	88	78	72	74	77	80	77	83	85	88	88	....	[b]84.5
	Minimum	45	47	48	59	56	44	62	61	65	66	65	47	41	45	47	57	61	61	60	63	56	46	45	44	44	42	50	54	63	61	....	53.6
Farmington	Maximum	78	85	87	88	89	91	92	94	95	99	88	78	84	91	90	87	88	88	89	88	77	78	73	80	74	79	84	88	88	89	....	86.0
	Minimum	52	49	49	54	58	61	63	68	69	71	66	54	50	54	60	63	64	63	67	68	66	56	53	46	56	47	51	62	66	67	....	59.1
Gano	Maximum	77	83	83	84	87	88	90	93	95	96	86	74	79	88	88	88	89	83	90	87	81	71	71	79	74	81	82	85	90	90	....	84.4
	Minimum	46	45	50	52	55	61	64	65	66	68	63	50	45	49	60	59	63	64	65	65	65	51	47	45	52	44	51	51	66	65	....	56.5
Hollister	Maximum	84	88	90	88	94	92	96	100	100	102	100	90	85	94	98	95	92	83	96	92	90	75	80	80	86	83	85	85	91	92	....	90.3
	Minimum	56	50	52	50	52	57	60	62	63	65	70	53	45	50	60	65	65	62	65	70	70	56	50	45	49	49	55	64	64	61	....	57.8
Koshkonong	Maximum	83	84	86	88	90	92	92	94	97	98	92	88	90	92	94	92	92	87	92	86	78	78	75	76	81	81	83	84	89	90	....	87.5
	Minimum	53	53	53	58	59	61	62	64	67	67	60	50	58	59	67	67	69	67	72	68	69	56	50	50	56	56	55	65	68	66	....	60.8
Lebanon §§	Maximum	73	78	80	82	86	86	87	87	90	94	86	74	71	81	89	90	87	87	89	87	80	78	72	76	73	78	88	82	87	87	....	82.8
	Minimum	47	47	50	50	53	61	60	66	66	67	69	49	41	41	53	61	62	66	65	64	60	50	47	46	46	46	46	58	66	65	....	55.6
Mountain Grove §§	Maximum	77	79	81	84	85	86	87	90	93	97	87	77	80	90	92	91	89	86	90	86	81	70	72	74	80	78	79	81	88	87	....	83.9
	Minimum	46	47	50	52	58	61	62	64	65	66	68	57	43	44	56	63	65	64	65	65	64	54	50	49	50	52	55	60	64	65	....	57.5
Neosho	Maximum	82	85	88	89	89	88	91	90	92	95	93	89	82	90	92	91	88	84	89	85	86	82	73	78	81	82	78	81	87	89	....	86.3
	Minimum	44	47	49	52	54	59	64	63	64	67	69	50	41	41	59	66	65	66	60	67	61	51	48	44	48	47	55	67	67	65	....	56.7
Rolla	Maximum	80	83	85	85	83	89	89	93	93	93	95	96	83	19	89	85	87	85	89	88	82	73	74	74	79	82	83	85	89	90	....	85.8
	Minimum	47	48	45	53	55	63	65	65	68	70	67	54	50	50	63	63	65	67	67	58	71	55	51	48	48	47	51	52	54	67	....	57.6
Springfield	Maximum	79	80	84	87	87	87	86	87	90	95	87	76	81	88	91	89	86	81	89	85	80	69	71	74	79	77	79	80	84	86	....	83.1
	Minimum	54	56	60	63	61	65	67	69	70	72	68	57	52	60	69	68	70	68	64	68	55	52	52	52	54	55	59	66	68	67	....	62.1
Southwest Plain.																																	
Amoret	Maximum	81	79	82	88	88	88	90	91	94	99	93	85	81	91	90	94	90	78	92	84	76	72	78	85	78	80	84	85	91	90	....	85.9
	Minimum	49	51	52	59	57	60	65	63	65	68	75	65	48	48	50	48	63	67	59	68	54	47	45	45	48	45	57	67	68	67	....	57.4
Appleton City	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Clinton	Maximum	83	84	88	89	92	92	92	92	95	99	94	85	84	95	94	92	90	82	93	89	84	74	77	80	78	83	83	84	85	87	....	87.3
	Minimum	49	56	52	50	57	60	65	64	60	62	71	52	49	52	60	66	69	66	62	69	58	47	47	44	48	47	54	68	67	70	....	58.0
Harrisonville §§	Maximum	76	78	86	83	87	86	87	76	92	100	89	77	88	92	93	90	83	77	79	84	71	75	76	85	74	79	77	85	79	90	....	83.1
	Minimum	56	56	56	56	59	61	62	66	65	64	....	....	....	56	57	64	69	67	62	61	68	50	47	46	48	49	50	59	68	64	....	[c]58.7
Lamar §§	Maximum	84	86	89	90	91	90	92	93	96	100	93	89	90	95	97	93	89	80	93	87	80	74	77	81	83	83	82	84	90	91	....	88.1
	Minimum	49	57	52	59	56	64	65	64	65	69	69	53	49	56	62	66	66	71	59	67	69	48	49	45	50	50	57	61	68	66	....	59.4
Lamonte	Maximum	77	80	85	86	86	88	89	90	90	98	88	78	80	90	92	88	86	75	90	88	77	72	72	82	80	81	80	80	78	84	....	83.7
	Minimum	47	51	51	57	59	62	65	67	65	70	67	44	45	45	53	60	66	65	63	68	57	48	44	47	55	54	54	63	68	69	....	57.6
Marshall	Maximum	70	79	83	83	88	88	88	90	92	98	88	79	80	89	92	84	85	82	91	87	80	73	74	84	....	....	77	80	81	88	....	[b]84.0
	Minimum	50	50	59	61	57	70	68	65	65	67	66	50	49	51	63	64	68	61	57	70	56	49	57	45	....	....	54	69	67	65	....	[b]59.8
Warrensburg	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Warsaw	Maximum	78	80	83	85	89	90	90	92	93	99	89	78	79	90	91	90	90	81	92	89	82	72	75	82	74	81	83	84	87	91	....	85.3
	Minimum	47	48	50	55	55	57	67	67	64	65	71	46	43	45	55	63	67	64	64	68	60	50	47	42	47	45	55	69	66	63	....	56.8
Northwest Plateau.																																	
Chillicothe §§	Maximum	83	84	87	91	90	91	88	89	95	98	91	84	82	93	94	93	88	80	94	89	70	75	86	75	74	80	75	85	72	....	....	[a]85.4
	Minimum	45	51	52	56	59	61	64	61	66	68	63	50	47	46	51	53	62	62	62	62	62	45	43	44	44	46	47	60	60	60	....	55.1
Grant City	Maximum	82	86	89	88	90	91	91	93	97	90	85	82	83	90	90	92	78	78	90	86	78	70	75	83	76	79	72	82	74	86	....	84.2
	Minimum	49	53	55	63	61	60	65	67	66	72	63	50	51	54	57	64	65	61	68	68	55	47	45	48	46	48	57	64	53	56	....	57.7
Kansas City	Maximum	75	79	82	81	87	88	88	88	92	96	87	76	76	88	89	89	78	76	90	84	73	71	72	82	70	78	74	83	75	88	....	81.8
	Minimum	59	59	61	67	66	66	69	71	71	75	66	56	59	59	63	73	68	65	64	72	55	53	51	56	55	54	61	70	59	68	....	63.0
Kidder §§	Maximum	78	81	83	85	87	87	89	90	92	96	87	79	80	88	88	90	74	76	78	85	64	72	73	80	70	78	70	82	65	88	....	81.2
	Minimum	53	54	59	65	62	62	62	67	67	67	63	48	49	50	55	67	66	69	63	62	62	48	47	18	48	47	47	62	57	57	....	57.5
Lexington §§	Maximum	79	84	84	86	86	87	90	90	92	96	90	80	80	89	90	90	82	81	90	87	70	72	74	83	74	80	77	84	74	90	....	83.7
	Minimum	49	54	53	60	60	61	69	71	66	74	68	48	52	48	55	63	63	65	65	72	63	51	49	51	54	50	57	69	69	65	....	59.9
Maryville §§	Maximum	78	82	85	85	88	89	88	90	95	89	87	80	81	88	89	93	70	70	88	80	60	69	73	83	71	78	71	83	61	83	....	80.9
	Minimum	49	51	53	55	60	60	55	65	66	67	61	50	50	52	55	55	64	60	58	58	52	44	41	41	46	44	47	61	51	50	....	54.0
Oregon	Maximum	76	79	83	84	86	88	87	88	94	88	83	77	77	83	84	90	73	73	84	84	77	68	70	79	69	77	72	81	75	85	....	80.5
	Minimum	50	54	56	63	60	62	65	67	68	70	62	50	51	53	54	65	63	60	57	65	51	44	42	47	47	49	64	63	50	55	....	56.9
St. Joseph	Maximum	78	81	84	86	88	89	89	91	94	92	87	80	80	88	85	89	72	75	89	85	65	69	73	82	71	79	73	85	66	87	....	81.7
	Minimum	53	58	57	65	65	69	70	71	72	73	64	56	55	54	57	67	67	64	63	65	54	51	49	54	52	53	62	66	56	62	....	60.8
Trenton	Maximum	75	77	80	82	85	84	86	86	90	90	86	80	78	82	86	85	81	76	84	85	82	71	70	76	74	75	72	80	77	84	....	80.6
	Minimum	52	54	55	60	62	64	68	67	69	72	63	53	52	51	54	63	66	63	62	71	60	48	46	51	49	48	57	66	59	61	....	58.9

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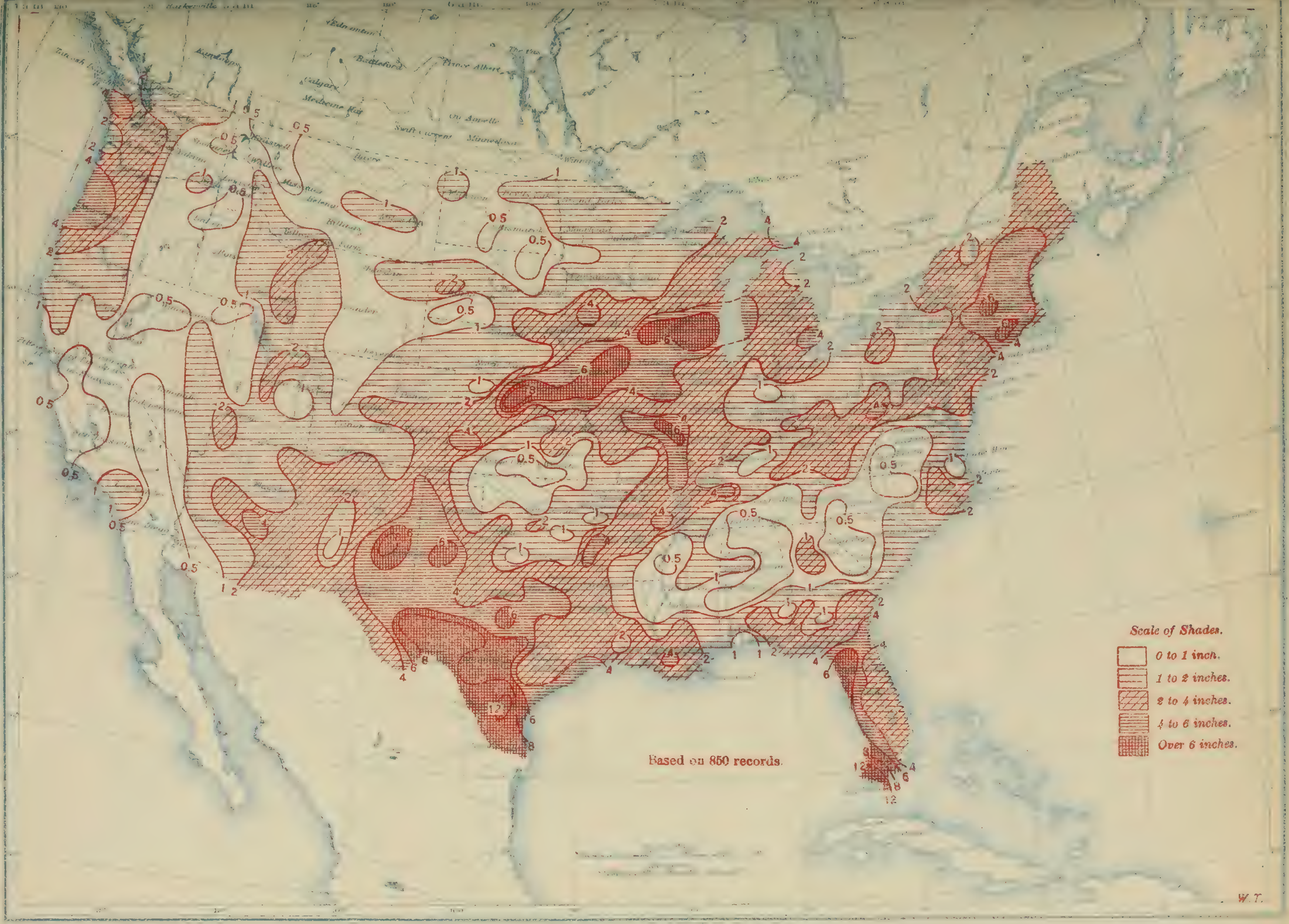
a, b, c, etc., indicate respectively 1, 2, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.


Scale of Shades.
0 to 1 inch.
1 to 2 inches.
2 to 4 inches.
4 to 6 inches.
Over 6 inches.
Based on 850 records.
Edmonton
Battleford
Prince Albert
Calgary
Medicine Hat
Swift Current
Minnedosa
Winnipeg
Kamloops
Helena
Billings
Bismarck
W.T.

Daily Evaporation (inches) and Wind Movement (miles) for September, 1919, at Columbia, Mo.

Date.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mo.
Columbia*	Evaporation	.172	.161	.179	.176	.154	.165	.165	.180	.157	.172	.213	.255	.184	.144	.147	.119	.081	.131	.114	.123	.104	.089	.051	.103	.118	.148	.119	067	.045	.063	....	4.009
	Wind movement	20	11	10	8	7	14	17	21	15	14	24	30	17	17	10	13	8	28	47	21	31	31	22	19	16	25	16	22	21	16	....	557
University of Mo.†	Evaporation	.208	.145	.204	.192	.226	.226	.267	.189	.161	.259	.313	.249	.218	.264	.138	.134	.138	.166	.279	.166	.208	.163	.200	.170	.201	.186	.125	.080	.065	.165	....	5.705
	Wind movement	24	20	22	18	29	50	60	38	31	37	40	38	35	24	21	13	29	84	149	72	75	61	44	42	45	65	62	102	45	69	....	1,444

*Observations taken at 7.45 a.m., Summer Time. †Observations taken at 5.30 p.m., Summer Time. Both stations are located on the University grounds; one on the West Campus and the other about one mile southeast on the Experiment Farm. To prevent confusion of records the former will be known as "Columbia" and the latter as "University of Missouri." The equipment is the same in both cases (see Annual Summary, 1918); but the Experiment Farm station has a freer exposure to sun and wind, comparing favorably with sea horizon.

OBSERVERS' REMARKS.

Fulton—The entire month was exceptionally warm.

Gorin—A warm month; during the last decade there was ample moisture.

Macon—The bulk of corn is safe in this section and corn cutting is in progress. Silos are being filled rapidly and fall plowing is in progress. The ground is in good shape for plowing. The rains are helping meadows.

Mexico—There was a small storm in the east end of the county at 6:30 p. m. on the 10th; barns and trees were blown down.

St. Catharine—September was a good month for maturing and harvesting corn. Some wheat has been sown; meadows are looking good and the ground is in fair condition.

Warrenton—A month of fine weather. Wheat sowing in progress; pastures are improving. Apples and pears are dropping.

Caruthersville—The month was favorable for crops; unusually warm for this season of the year.

Farmington—The dry weather of the first half of the month injured corn, millet and sorghum; but fine rains began with the 18th and put the soil in fine condition for fall seeding.

Houston—We have had very little frost and the weather has been fine. Some wheat sowing in progress.

Lamonte—Seventy five per cent of the wheat has been sown but the acreage is small and the condition of the seed bed is poor. Fruit is plentiful and of fair quality. Pastures are excellent and stock is in good condition.

Warsaw—The first half of the month was clear and beautiful and fine for farmers. Rains began on the 17th to the 21st. No frosts, and farm work progressing rapidly with seeding and plowing advanced.

Avalon—The month was ideal for farmers. Corn is about all matured in the bottoms where it was overflowed and replanted and in ten more days it will be safe from frost. Corn crop is good.

Grant City—The past month was favorable for farm work; much fall plowing is being done and some wheat is sown. Most silos are filled.

,05
YMS

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

MISSOURI SECTION

IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

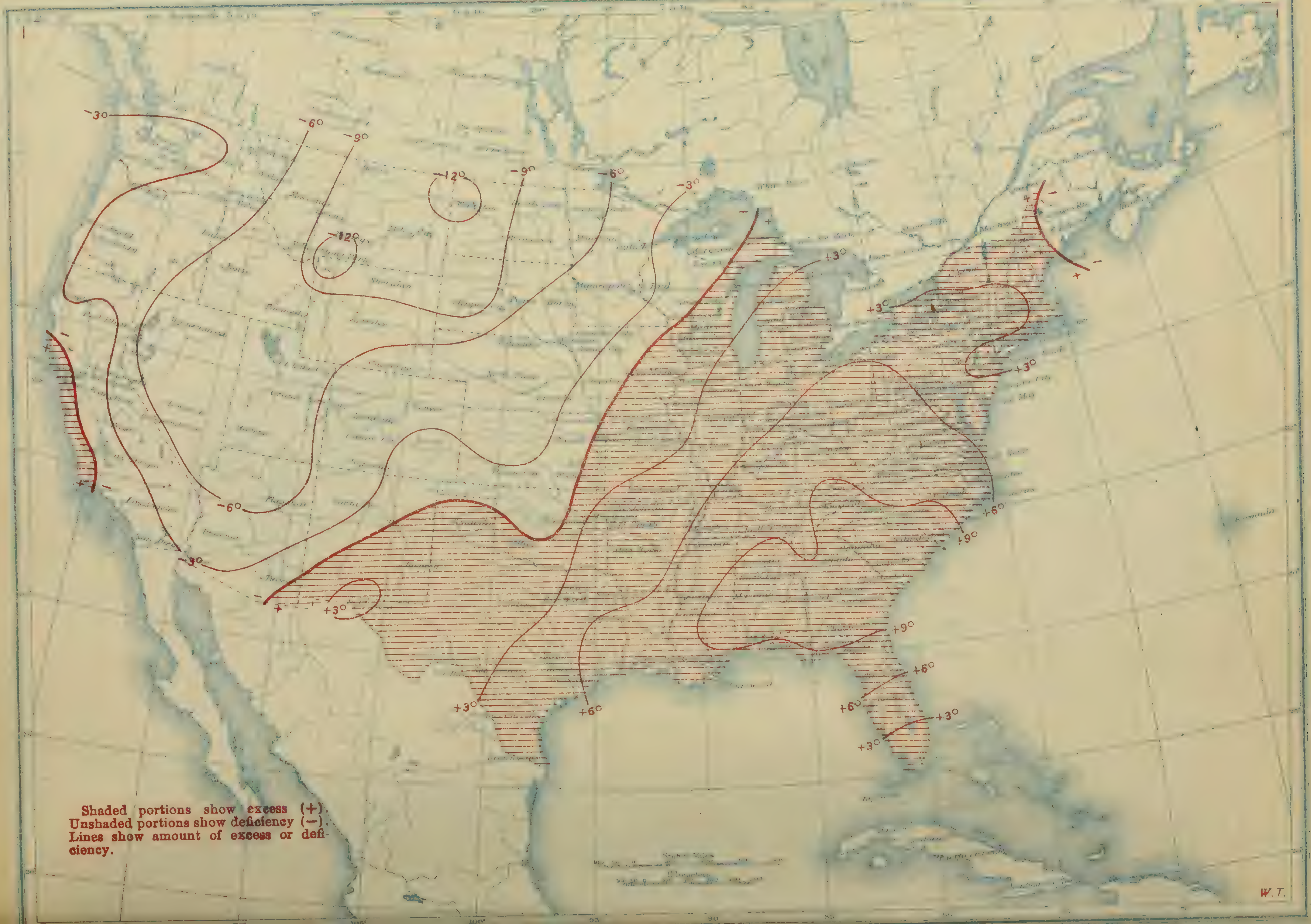
OCTOBER, 1919

BY

GEORGE REEDER
METEOROLOGIST

COLUMBIA, MO.:
WEATHER BUREAU OFFICE
DECEMBER 26, 1919

Departure of the Mean Temperature from the Normal, October, 1919.



Shaded portions show excess (+)
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.
GEORGE REEDER, Meteorologist.

Vol. XXIII. Columbia, Mo., October, 1919. No. 10.

GENERAL SUMMARY.

October, 1919, in Missouri, was mild and wet, except in the northwestern section, where it was drier and somewhat colder than normal. There were more rainy days and less sunshine than usual. There was no general hard freeze, but temperatures approximating the freezing value occurred at most stations in the northern and western sections on the 17th and 18th, and again on the 28th and 29th. Vegetation was generally matured and no damage was done.

There were no windstorms, but excessive rains caused floods in the lower watersheds of the Osage, Gasconade and Meramec rivers. Corn in shock was carried away, and newly-seeded wheat fields inundated. General traffic and business suffered considerably.

TEMPERATURE.

The monthly mean temperature for the State, 67 stations reporting, was 58.4°. The departure from the normal for 65 stations having 10 or more years' record was +1.4°. The northwestern plateau was somewhat colder than normal, but all other sections were warmer than normal, the temperature excess in the southeastern lowlands being quite marked, averaging about 6°. The first two days were the warmest generally, with 25 stations reporting 90° or higher. The 17th and 18th were the coldest days south of the Missouri River, and the 28th and 29th were the coldest in the northern half of the State. The temperature was 32° or lower at 45 stations, but killing frost was not general in all parts of the State, there being about 20 stations along the eastern border south of the Missouri River with no killing frosts.

PRECIPITATION.

The average precipitation for the State, 82 stations reporting, was 6.74 inches. The departure from the normal for 75 stations having 10 or more years' record was +3.93 inches. It was, with but one exception (1883), the wettest October during the past 50 years. The precipitation was excessive in all sections of the State, except the northwestern plateau, and at a few stations in the northeast plain. About 15 stations, mostly in the Ozarks, received from 11.50 to over 14 inches during the month, and about 27 others—in the Ozarks, southeastern, and central-eastern counties—had monthly totals of from about 7 to over 9 inches. Excessive falls occurred on the 26–27th, 28th, and 31st, the 24-hour amounts ranging from 2.50 inches to nearly 5 inches; at Rolla, Phelps County, 9.25 inches fell within a 36-hour period. The lower lands of the Osage, Gasconade and Meramec rivers, were flooded, and considerable damage was done.

There was no snow during the month.

WIND.

The prevailing winds were from the south. The average monthly wind movement, 8 stations equipped with anemometers reporting, was 6,200 miles, or an hourly velocity of about 8.3 miles. This is about the normal for October. There were no damaging winds.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine for the State, based upon the records of 7 well-placed stations, was 157. This is only 45 per cent of the possible, and about 20 per cent below the normal for October.

DATES OF MISCELLANEOUS PHENOMENA.

Aurora.—At two stations, on the 1st. *Fogs, dense.*—5th, 6th, 7th, 12th, 14th, 16th, 17th, 20th, 21st, 22d, 23d, and 29th. *Frosts, light.*—11th, 13th, 18th, 21st; Heavy—11th, 12th, 17th, 18th, 28th; Killing—in northern and western sections on 28th and 29th. *Halos, solar.*—7th, 8th, 9th, 12th, 16th, 20th, 21st, and 28th; Lunar—4th, 7th, 9th, 11th, 17th. *Thunderstorms.*—4th, 8th, 9th, 10th, 15th, 20th, 23d, 24th, 25th, 26th, 30th, 31st.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.03	90	......	148	43	4,920	6.6	24	nw.	28
Hannibal	30.04	89	......	......	......	5,514	7.4	27	sw.	9
Kansas City	30.01	82	62	174	50	7,682	10.3	30	sw.	9
St. Joseph	30.01	84	67	166	48	4,426	5.9	30	nw.	24
St. Louis	30.04	82	70	126	36	8,864	11.9	50	s.	8
Springfield	30.03	91	75	116	33	7,172	9.6	30	sw.	9
Cairo, Ill	30.05	91	79	......	......	5,900	7.9	26	sw.	9
Keokuk, Iowa	30.05	83	68	213	60	5,058	6.8	27	se.	24

COMPARATIVE DATA FOR OCTOBER.

Year.	Temperature.				Precipitation.				Number of Days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	53.6	−3.5	89	24	2.65	+0.21	......	.....	7	.....	.....	.....
1889	53.8	−3.3	91	27	2.50	+0.06	......	.....	6	.....	.....	.....
1890	54.8	−2.3	91	22	2.24	−0.20	......	.....	6	.....	.....	.....
1891	55.7	−1.4	98	19	1.11	−1.33	......	.....	3	.....	.....	.....
1892	57.5	+0.6	95	16	2.28	−0.16	2.40	0	5	16	7	8
1893	56.7	−0.4	95	16	0.99	−1.45	2.81	.....	10	20	8	3
1894	57.6	+0.5	94	18	1.74	+0.70	3.52	T.	6	17	8	6
1895	54.2	−5.9	89	15	0.35	−2.09	1.20	T.	2	21	6	4
1896	54.1	−3.0	90	19	2.48	+0.04	2.68	0	5	19	6	6
1897	62.5	+5.4	99	23	0.71	−1.73	1.70	0	3	22	6	3
1898	53.5	−3.6	94	19	4.23	+1.79	4.51	1.4	8	11	7	13
1899	62.4	+5.3	100	24	2.93	+0.49	2.53	0	5	20	6	5
1900	62.4	+5.3	92	25	4.18	+1.74	4.04	0	7	17	7	7
1901	60.1	+3.0	96	24	1.64	−0.80	2.98	0	6	18	8	5
1902	59.5	+2.4	88	28	2.52	+0.08	2.69	0	5	21	5	5
1903	57.2	+0.1	90	19	2.85	+0.41	3.80	0	6	19	6	6
1904	57.6	+0.5	90	19	0.90	−1.54	2.46	0	8	20	7	4
1905	55.1	−2.0	90	20	4.64	+2.20	7.24	0.3	5	17	6	8
1906	56.3	−0.8	94	17	0.87	−1.57	1.50	0	10	15	7	9
1907	56.7	−0.4	94	18	2.90	+0.46	3.46	0	7	19	5	7
1908	56.3	−0.8	92	21	2.74	+0.30	4.90	0.8	5	18	6	7
1909	57.2	+0.1	96	20	2.77	+0.33	2.57	T.	6	19	5	7
1910	59.4	+2.3	94	15	2.71	+0.27	5.50	0	5	22	4	5
1911	56.9	−0.2	96	25	3.30	+0.86	5.12	0.2	8	11	7	13
1912	59.1	+2.0	97	21	3.83	+1.39	5.12	0.7	......	20	5	6
1913	54.7	−2.5	93	11	4.46	+1.94	2.80	3.3	9	15	6	10
1914	59.2	+2.0	88	19	4.54	+2.04	5.40	0	7	14	6	11
1915	59.8	+2.9	95	22	1.19	−1.45	1.97	0	3	23	5	3
1916	58.0	+0.7	95	20	2.17	−0.54	3.90	0	6	18	5	8
1917	49.8	−7.4	93	12	1.16	−1.49	2.00	0.2	6	16	8	7
1918	60.6	+3.5	95	28	3.37	+0.71	5.61	0	7	14	6	11
1919	58.4	+1.4	98	17	6.74	+3.92	4.91	0	11	10	7	14

SUPPLEMENTAL TABLE OF DATA.

Stations.	Length of record, years.	Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
		Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Arlington	15	......	......	......	......	......	......	......	......	......	Wm. R. Bennett.
Boonville	41	6.04	+3.30	1.67	0	14	12	3	16	se.	C. Randecker.
C. Girardeau	11	7.92	+5.80	2.30	0	17	6	1	24	n.	D. L. Albert.
Glencoe	1	8.93	....	2.47	0	12	9	7	15	......	L. M. Beard
Hermann	44	9.91	+7.22	2.90	0	14	.....	.....	.....	......	W. E. Crawford.
New Madrid	24	6.48	+3.36	2.65	0	19	4	2	25	se.	Miss Josie Smith.
Osceola	18	9.26	+7.08	2.87	0	14	9	1	21	......	Wm. E. Mathews.
Pacific	1	9.55	....	2.44	0	12	8	4	19	e.	Mark Waters.
Steelville	16	14.73	+12.20	5.10	0	13	19	0	12	nw.	A. Kreamelmeyer
Tuscumbia	1	10.93	....	2.30	0	15	13	1	17	s.	C. B. Wright.
Union	1	9.69	....	2.18	0	14	7	17	7	nw.	J. Wm. Keller.
Valley Park	1	11.17	....	3.10	0	13	11	12	8	......	T. W. McNeese
Waverly	3	2.21	....	0.84	0	7	13	3	15	nw.	J. W. Cauthorn

Climatological Data for October, 1919.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipitation 0.01 or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	39	56.8	+2.0	90	1†	28	17†	43	1.98	−0.87	0.90	0	9	14	1	16	nw.	O.K. Benecke.
Clifton Hill	Randolph	731	20	58.1	+1.2	89	2†	28	29	45	1.49	−0.36	0.43	0	9	15	8	8	......	L. S. Harlan.
Columbia	Boone	784	30	57.6	+2.8	88	2	32	28	32	7.68	+5.26	2.27	0	14	9	6	16	se.	U. S. Weather Bureau.
Fayette	Howard	725	36	57.2	+0.4	87	2†	29	29	32	4.01	+1.54	1.06	0	10	13	8	10	sw.	Prof. D. R. Briggs.
Fulton	Callaway	818	28	58.9	+1.3	90	1†	32	17†	36	10.31	+7.81	2.70	0	14	8	10	13	w.	Prof. Claude A. Jones.
Gorin	Scotland	700	32	.....	......	......	......	......	......	....	3.77	+1.36	1.38	0	8	9	5	17	se.	J. W. Pulliam.
Hannibal	Marion	534	27	57.4	+1.6	87	1	30	29	34	4.86	+3.22	1.31	0	11	8	7	16	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	31	56.6	+0.1	88	1†	33	28	32	11.91	+8.62	3.10	0	15	15	6	10	s.	Miss Emma Swift.
Kirksville	Adair	969	38	55.8	+1.8	86	2	24	29	35	2.10	−0.76	0.53	0	7	15	10	6	s.	Prof. Mark Burrows.
Louisiana	Pike	469	39	57.7	+1.6	88	1	32	17	37	8.20	+5.70	2.95	0	11	18	2	11	w.	J. T. Farrell.
Macon	Macon	875	26	54.3	−3.0	86	1†	25	29	36	2.38	−0.42	0.75	0	8	12	6	13	se.	W. C. Brown.
Mexico	Audrain	797	41	56.2	−0.3	89	1	30	29	35	6.92	+4.61	2.20	0	12	15	4	12	e.	Mrs. Abbie Snoddy.
Oakfield ‡‡	Franklin	793	34	60.1	+1.6	92	1	35	28	35	9.84	+7.10	3.01	0	13	6	8	17	s.	E. E. Steines.
Palmyra	Marion	652	20	55.1	−2.3	89	1	21	29	42	2.27	−0.12	0.73	0	10	13	3	15	se.	W. B. Markell.
St. Catherine	Linn	850	8	56.0	......	92	2	23	29	37	1.82	....	0.68	0	12	13	9	9	s.	L. D. Baker.
St. Charles	St. Charles	456	41	59.8	+1.9	89	1	36	28	37	7.96	+5.45	2.15	0	11	6	7	17	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	46	60.8	+2.4	89	1	39	28	30	8.52	+6.11	3.44	0	13	6	9	16	s.	U. S. Weather Bureau.
St. Louis (2)	do.	578	7	60.0	+1.8	89	1	38	28	28	8.87	+5.69	2.61	0	15	7	8	16	se.	St. Louis University.
Shelbina	Shelby	779	26	.....	......	......	......	......	......	....	1.60	−1.42	0.60	0	4	....	....	....	......	S. G. Parsons.
Steffenville	Lewis	650	26	58.4	+1.2	95	2	25	29	40	3.16	+1.08	1.40	0	9	10	10	11	e.	Frank Hall.
Unionville	Putnam	1,072	26	55.6	+0.2	88	2	20	29	35	2.47	+0.03	1.00	0	7	11	5	15	se.	Geo. W. Davis.
Warrenton	Warren	865	29	56.8	+3.4	87	1	33	29	32	8.63	+5.90	3.25	0	14	8	10	13	s.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	47	56.5	+2.0	87	1	29	29	34	1.68	−0.81	0.38	0	12	11	8	12	s.	U. S. Weather Bureau.
Section means and	extremes	....	....	57.4	+1.1	95	2	20	29	45	5.32	+2.94	3.44	0	11	11	7	13	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	28	69.0	+7.9	98	1	44	18†	31	7.26	+4.51	1.84	0	14	11.	6	14	e.	H. E. Averill.
Doniphan	Ripley	341	15	64.2	+6.3	88	1	36	18	30	6.07	+3.25	1.35	0	14	10	5	16	sw.	W. W. Martin.
Jackson	Cape Girardeau	458	29	63.7	+6.1	92	1	33	18	34	8.35	+5.29	1.87	0	13	6	6	19	s.	L. M. Bean.
Marble Hill	Bollinger	420	27	.....	......	......	......	......	......	....	.....	....	......	......	....	....	....	....	......	F. W. Wells.
Patton (near)	Bollinger	500	9	.....	......	......	......	......	......	....	8.86	+6.29	3.45	0	10	....	....	....	......	George F. Ellis.
Poplar Bluff	Butler	339	15	64.1	+4.4	92	1	32	18	31	9.25	+6.49	3.56	0	15	9	4	18	......	Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill.	359	44	64.7	+5.6	88	1	44	18	31	5.97	+3.34	1.49	0	16	4	6	21	s.	U. S. Weather Bureau.
Section means and	extremes	....	....	65.7	+6.1	98	1	32	18	34	7.63	+4.86	3.56	0	14	8	5	18	s.	
Ozark Plateau.																				
Arcadia	Iron	925	41	59.3	+3.3	87	1	30	18†	37	7.99	+5.07	1.65	0	17	5	5	21	e.	Arcadia College.
Aurora	Lawrence	1,370	....	.....	......	......	......	......	......	....	.....	....	......	......	....	....	....	....	......	C. D. Sprague.
Birchtree	Shannon	1,078	25	^{a}61.4	+3.4	89	1†	35	18	40	6.69	+4.33	1.22	0	13	8^{a}	5^{a}	17^{a}	sw.	K. H. Kirkendall.
Bolivar	Polk	1,071	32	60.0	+1.7	91	1†	31	17	38	14.11	+11.14	4.83	0	14	9	2	20	s.	V. H. Brown.
Cassville	Barry	1,475	20	63.2	+4.9	96	3	35	18	46	8.30	+5.36	2.00	0	10	6	14	11	s.	R. H. Wallen.
Dean ‡‡	McDonald	1,000	20	.....	......	81	3	30	29	27	12.90	+9.97	3.27	0	13	11^{b}	3^{b}	15^{b}	......	H. E. Dean.
Eldon	Miller	934	20	56.9	−0.9	88	2	29	28	39	12.23	+9.73	4.35	0	13	4^{a}	15^{a}	11^{a}	se.	E. H. Shepherd.
Farmington	St. Francois	918	22	61.4	+6.0	90	2	34	18	31	11.78	+9.34	3.00	0	16	7^{a}	11^{a}	12^{a}	ne.	Robert Forsyth.
Gano ‡‡	Dent	1,250	18	60.4	+2.7	89	1	30	18	35	11.07	+7.64	3.22	0	14	8	8	15	s.	A. C. Leach.
Goodland	Iron	1,000	26	^{c}61.6	+6.1	88	1	29	18	38	8.67	+5.72	3.55	0	10	8	15	8	s.	F. M. Adams.
Hollister	Taney	735	15	63.8	+3.6	91	1	36	18	39	9.50	+7.15	2.30	0	11	11	0	20	sw.	W. P. Chapmann.
Houston	Texas	1,280	26	62.3	+5.2	86	1	33	18	33	8.21	+5.73	2.00	0	11	6	8	17	se.	R. F. Harmon.
Koshkonong	Oregon	958	18	^{c}64.0	+4.3	90	1	37	18	37	7.53	+4.97	1.49	0	15	4^{c}	2^{c}	22^{c}	se.	R. M. Hitt.
Lebanon	Laclede	1,265	33	57.5	−0.5	87	2	33	17†	35	13.83	+10.96	3.80	0	13	10	7	14	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	23	61.0	+2.8	89	1	33	17†	33	12.53	+9.58	3.65	0	12	8	6	17	se.	C. S. Crow.
Mountain Grove	Wright	1,490	21	59.1	+1.8	86	1†	35	28	34	10.35	+7.72	2.56	0	14	6	4	21	s.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	36	61.2	+2.1	87	1	35	18†	40	11.39	+8.30	2.43	0	14	8	8	15	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,139	35	59.9	+4.6	90	1	34	28†	37	14.87	+12.29	4.91	0	12	9	10	12	s.	Prof. Elmo G. Harris.
Springfield	Greene	1,350	31	59.9	+2.6	85	1	35	17	37	11.94	+9.14	4.06	0	15	7	7	17	s.	U. S. Weather Bureau.
Section means and	extremes	....	....	60.5	+2.8	96	3	29	18†	46	10.77	+8.01	4.91	0	13	8	7	16	s.	
Southwest Plain.																				
Amoret	Bates	831	12	57.1	+0.2	91	2	24	17	39	4.81	+2.49	1.42	0	8	12	6	13	sw.	Darby Fruit Farm.
Appleton City	St. Clair	853	27	.....	......	......	......	......	......	....	.....	....	......	......	....	....	....	....	......	....
Clinton	Henry	765	32	59.7	+1.3	91	1†	29	19	44	7.93	+5.28	2.40	0	9	7	11	13	sw.	A. E. Derwent, M. D.
Harrisonville ††	Cass	912	44	55.0	−0.9	90	2	24	28	43	2.88	+0.28	0.72	0	13	12^{c}	4^{c}	12^{c}	se.	John H. Patterson.
Lamar	Barton	980	38	59.5	+0.7	91	1	31	28	38	9.32	+6.40	2.50	0	12	10	4	17	s.	Joe W. Springer.
Lamonte	Pettis	863	32	57.6	−0.3	90	1	27	17	43	5.75	+3.51	2.00	0	7	10^{a}	13^{a}	7^{a}	sw.	J. Ed. Hall.
Marshall	Saline	779	30	^{a}57.0	+0.5	88	2†	28	17	39	4.27	+1.75	2.00	0	9	16^{a}	3^{a}	11^{a}	sw.	Dr. W. H. Black.
Nevada	Vernon	860	27	58.6	+1.6	90	1	29	17	36	7.76	+4.86	2.95	0	11	7	10	14	s.	George A. Kaupp.
Warrensburg	Johnson	883	42	^{a}57.6	−0.5	83	5	26	28	36	2.14	−0.42	1.30	0	5	12	11	7	sw.	Geo. H. Collins.
Warsaw	Benton	715	23	59.5	+0.6	90	1†	30	17†	40	11.89	+8.99	2.95	0	16	7	19	5	e.	J. R. Smith, M. D.
Section means and	extremes	....	....	58.0	+0.4	91	1†	24	28	44	6.31	+3.41	2.95	0	10	11	9	10	s.	
Northwest Plateau.																				
Avalon	Livingston	730	22	58.5	0.0	90	2	26	26	32	2.10	−1.08	0.60	0	5	10	11	10	sw.	F. G. Ashbaugh.
Bethany	Harrison	916	28	55.4	+1.1	87	1†	20	28†	41	2.98	+0.77	1.40	0	7	15	8	8	sw.	M. H. Moulton.
Chillicothe	Livingston	768	11	58.3	......	92	1†	24	28	40	1.15	−3.08	0.60	0	5	....	....	....	sw.	R. L. Isherwood.
Conception	Nodaway	982	35	54.1	−1.3	88	1†	19	28	31	2.19	−0.28	0.77	0	7	10	11	10	nw.	Fr. Adelhelm Hess.
Edgerton	Platte	856	....	.....	......	......	......	......	......	....	.....	....	......	......	....	....	....	....	......	H. Killingsworth.
Gallatin	Daviess	803	17	.....	......	......	......	......	......	....	.....	....	......	......	....	....	....	....	......	....
Grant City	Worth	1,134	29	54.6	−0.6	87	1†	19	28	38	1.82	−0.95	0.67	0	4	13	6	12	nw.	W. H. Campbell.
Kansas City	Jackson	963	30	56.6	+0.8	90	2	28	28	36	1.38	−0.83	0.36	0	11	11	7	13	s.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	31	53.7	−2.5	88	2	23	28†	42	1.71	−1.05	0.78	0	6	14	5	12	sw.	J. F. Sharp.
Lexington	Lafayette	688	36	56.4	−1.1	90	1†	27	29	32	1.92	−0.69	0.65	0	7	17	0	14	s.	J. W. Keithley.
Liberty	Clay	864	29	^{b}56.2	−1.2	89	3†	25	28	46	1.81	−0.69	0.49	0	10	10^{b}	8^{b}	11^{b}	se.	James H. Harris.
Maryville	Nodaway	1,036	26	50.3	−2.9	87	1	17	29	43	1.60	−2.53	0.65	0	7	16	3	12	s.	J. R. Brink.
Oregon	Holt	1,048	63	52.6	−2.3	86	1	18	28	33	2.05	−0.54	1.04	0	4	14	6	11	s.	Tom Curry.
St. Joseph	Buchanan	967	45	54.4	−1.9	89	2	24	28	38	2.46	−0.14	0.72	0	12	10	9	12	se.	U. S. Weather Bureau.
Tarkio	Atchison	976	27	52.9	−2.6	88	1	18	28	34	1.21	−1.30	0.54	0	5	13	5	13	nw.	John F. Frazier.
Trenton	Grundy	822	24	55.0	−1.5	85	2	24	28	34	2.27	−0.25	0.79	0	13	14	7	10	se.	W. H. Estes.
Section means and	extremes	....	....	54.9	−1.3	92	1†	17	29	46	1.90	−0.90	1.04	0	7	13	7	11	sw.	
State means and	extremes	....	....	58.4	+1.4	98	1	17	29	46	6.74	+3.93	4.91	0	11	10	7	14	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

† Also on other dates. †† Received too late to be included in means and summaries. ‡‡ Post-office addresses of these stations are as follows: of Oakfield, Pacific, R. F. D. No. 1; of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for October, 1919.

Stations.	Watersheds.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville ‖	Missouri					.54				.02	.18	.62					.45				.02	.23		.02		.15	.51	1.06	1.67		.50	.07	6.04
Brunswick ‖	Grand										.10						.07				.08				.04	.08		.31	.28		.12	.90	1.98
Clifton Hill	Chariton				.06	.02					.17						.10				.06						.21	.43		.38	.06		1.49
Columbia***	Missouri				.73	.14			.04		1.21	.01		T.		.25	.11				.28			.22		.08	1.16	2.27		.68		.50	7.68
Fayette	......do				.29	.19			T.		.48						.34				.12					.16	.74	1.06	.20	.43			4.01
Fulton	......do					.67				.05	1.46	.05					.60				.30	.25		.06			1.70	2.70	.80	.20	.06	1.41	10.31
Glencoe ‖	Meramec					.17					T.	.83	.12				.20					.35		.05		.30	1.47	2.47	1.35	T.	.95	.67	8.93
Gorin	Mississippi				.67												.41				.18				.07		.02	.09			1.38	.95	3.77
Hannibal***	......do				.78	.51			T.		.65	.04				.06	.14				.15			T.			.46	1.31	T.	.73	T.	.04	4.86
Hermann ‖	Missouri					.17				.02	.90	.53	.14				.10					.68		.01	.01		.60	2.80	2.90		.10	.95	9.91
Jefferson City ‖	......do					.60				.20	1.35	.80	.05				.05					.45		.03		.06	.75	2.60	3.10	.05	.12	1.70	11.91
Kirksville	Mississippi				T.						.39										.47					.25		.07		.07	.53	.32	2.10
Louisiana	......do					1.11				T.	1.48	.14					.85				.15			.01	T.	.05	.30	2.95		.20		.96	8.20
Macon ‖	Chariton						.75					T.				.10	.15					.18				T.		.28	.15		.32	.45	2.38
Mexico ‖	Mississippi					.28				.03	1.05	.40										.08		.03	.01		.49	1.10	2.20		.70	.60	6.92
Oakfield	Meramec					.10			T.	.25	.66	.50				T.	.03				T.	.48	T.	.32		.23	3.01	1.67	.76	.77		1.06	9.84
Pacific ‖	......do						.19			.10		.94	.30				.05					.44				.09	1.89	2.44	1.47		.90	.74	9.55
Palmyra ‖	Mississippi					.31				.02	.22	.04					.16				T.	.09						.33	.73		.33	.04	2.27
St. Catherine	Grand				.02	.02				T.	.15	T.					.68				.10				.05	.05	.05	.08		.10	.50	.02	1.82
St. Charles	Missouri					.02				.02	.80	.25					.14					.35		T.		T.	2.15	2.00	1.27	.44	T.	.52	7.96
St. Louis (1)***	Mississippi					.04			.05	T.	.55	.51				T.	.01				.13	.18		T.	T.	1.00	2.76	1.77	.04	.44	T.	1.04	8.52
St. Louis (2)	......do					.07			.07		.50	.44					.04				.14	.17		.01		1.00	2.61	1.97	.02	.54	T.	1.29	8.87
Shelbina	......do				.10												.60											.60		.30			1.60
Steffenville	......do				T.	.03				T.	.35						.40				.08						.25	.20		.35	.10	1.40	3.16
Union ‖	Meramec						.03			.12	.15	.69	.15				.14					.57		.44		.23	1.56	2.18	1.76		.85	.91	9.69
Unionville	Chariton								.10	T	T.					.35	.65				.15									.35	.62	.25	2.47
Valley Park ‖	Meramec					T.	.10			.02	1.20	.50	T.				.20					.42		T.		.10	1.60	3.10	1.20	.10	1.80	.82	11.17
Warrenton ‖	Mississippi					.01				.01	.65	.41	.06				.12	T.				.62		T.	.11	T.	.70	1.64	3.25	.01	.22	.82	8.63
Keokuk, Iowa***	......do				.34	.04				.02	.05					.26					.11			T.	.02	T.	.11	.13		.29	.22	.09	1.68
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi					.12	.22			2.30	.14	1.26	.72		.34		.83	.10				1.40		.03	.03	.02		.33	.02	.02		.04	7.92
Caruthersville	......do				.40	.62			.14	1.03	T.	.51	.20	.18	.68	.08	T.					1.84	.08	.42	T.				.17		T.	.91	7.26
Doniphan	Black					T.			.22		T.	1.35		.20	.35		.36					.90	.15	.25	.65	.07	.20		.75		.09	.53	6.07
Jackson	Mississippi				.04	.40			1.87		1.00	1.19			.31		.75					1.03		.06	.07		.65	.20				.78	8.35
Marble Hill	......do																																......
New Madrid ‖	......do					.13	.20		.01	2.65	.30	.30	.30		.80	.08		.10				.60	.35	.10	.02	.23		.02	.10	.09		.10	6.48
Patton (near)	......do								.75		3.45			.30							2.11						.29	.39	.04	.28	.25	1.00	8.86
Poplar Bluff ‖	Black				T.	T.	.05		.19	3.56	.03	1.55		.08	.50	T.	.43					.32	.03	.65	1.13		.12		.34		T.	.27	9.25
Cairo, Ill.***	Mississippi				.03	.68			.08	1.41	.94	.24	.01	.36	.40		.22					.63	T.	T.	.16	T.	.28		.12		.06	.33	5.97
Ozark Plateau.																																	
Arcadia ‖	St. Francis					.40	.24			1.01		.49	.34		.05		.16	T.				1.18		.10	.01	.02	1.25	1.65	.42	.12	.19	.36	7.99
Arlington ‖	Gasconade																																......
Aurora	White																				.31	1.45				.03	3.58	1.45	1.55	.16			2.64
Birchtree	Black				.15	.28			.52	1.02		.70			.10		.55					1.12		.10			.66	.34	.45			.70	6.69
Bolivar	Osage				.80	.51			.40		4.83	.25	T.				.15				.22	.71				.17	2.46	1.06	1.13	.44	T.	.98	14.11
Cassville	White										.04	.19										.48				.75	2.00	.04	1.20	.40	1.20	2.00	8.30
Dean	Neosho				1.50				.80		.82	.51	.02				.23					1.18	.03				3.27	1.34	1.25	.15		1.80	12.90
Eldon	Osage					.17			.15		1.86	.12					.12				.98			1.01		.15	1.09	4.35	.12	.41		1.40	12.23
Farmington	St. Francis				.48	.16			.04	.55	.13	.65			.03		.06					1.35			.02		1.65	3.00	.05	.90	.04	2.70	11.78
Gano	Meramec					.16			.20	.35	1.20	.23	T.			T.	.13					1.20		.07			3.22	1.58	.28	1.03	.20	1.22	11.07
Goodland	Black				.49						.86	.40										.90					.45	3.55	.33	.15	.04	1.50	8.67
Hollister	White				.70				1.00	1.20	.40										1.10						2.30	.50	1.30	.20	.20	.60	9.50
Houston	Gasconade				T.	.20			.30	.30	.45	.15				T.						1.30		T.	T.		1.43	1.57	.30	.21	T.	2.00	8.21
Koshkonong	Black				.20	.25			.47	1.49	.20	1.30		.21								1.16		.18	.32	.05	.40			.38	.05	.87	7.53
Lebanon ‖	Osage					.32			.40		.40	1.28	.20				.13					1.10		T.			2.57	3.80	1.85	.03	.60	1.15	13.83
Lockwood	......do					.99			.36		3.65	.19					.42					1.12		.06			1.92	.72	1.24	.63		1.23	12.53
Mountain Grove ‖	White					.32				1.28	.18	.68	.12				.18					.96		.11	T.		1.76	1.25	.45	.24	.26	2.56	10.35
Neosho	Neosho					1.06			.76	.05	.82	.41					.21				.11	.70		T.		2.42	2.00	.11	1.07	.31	T.	1.35	11.39
Rolla	Meramec					.67				.19		.90	.04									.77		.26			4.91	4.34	1.21	.10	.50	.98	14.87
Springfield ***	White				.32	.08			.38		1.71	.21	T.			T.	.26				.83	.04		T.	T.	.23	3.98	1.80	.12	.56	.09	1.33	11.94
Steelville ‖	Meramec					.06	.30			.30		1.20	.05									.75		.10			5.10	4.60	1.10	.22	.50	.45	14.73
Tuscumbia ‖	Osage					.67				.23	1.73	.76	.08				.12					.56		.01		.14	.82	2.30	1.81	.04	.11	1.55	10.93
Southwest Plain.																																	
Amoret	Osage					.08		T.			.42						.17				.13					T.	1.22	1.42		.72	.65		4.81
Appleton City	......do																																......
Clinton	......do				1.10				.10		.98						.20				.15						2.40	2.20	.15	.65			7.93
Harrisonville ‖	......do								.08		.02	.10				.03	.09					.10		.04			.13	.42	.72	.20	.26	.69	2.88
Lamar ‖	Neosho					.76				.25	1.20	.58					.32					.25					.80	2.00	2.50	.18	.28	.20	9.32
Lamonte	Missouri				T.				T.		.65				T.	T.	.60				.20					T.	1.00	2.00	T.	.70		.60	5.75
Marshall	......do				2.00	.05			.05		.27										.18						.40	.45		.62	.25		4.27
Nevada	Osage					.31			.04		.82						.70				.18			T.			1.40	2.95	.25	.60	.20	.31	7.76
Osceola ‖	......do					.67				.02	.45	.19					.63					.27		.07		.13	.78	1.83	2.87	.47	.43	.45	9.26
Warrensburg	Missouri			T.					.32							.20	T.										T.	1.30	.22	.10	T.		2.14
Warsaw ‖	Osage				.87	.35			.06		.60	.15					.42				.60	.10		.05		.10	1.85	1.25	2.95	.78	.73	1.03	11.89
Waverly ‖	Missouri				T.						T.	.11			T.	.03	.11											.42	.47		.23	.84	2.21
Northwest Plateau.																																	
Avalon	Grand										.40					.55					.20						.35				.60		2.10
Bethany	......do				.07				T.	.34				T.	T.	.60	.80				.10						T.	T.		.42	.65		2.98
Chillicothe ‖	......do																				.10					.15		.15		.15	.60		1.15
Conception	Missouri			T.					.42	.32						.77	.07				.04					T.	T.	T.		.18	.39		2.19
Gallatin	Grand																																......
Grant City	......do								T.	.51				T.			.67	.27			T.			T.	T.	T.	T.	T.			.37	T.	1.82
Kansas City***	Missouri								.02	T.	.01				T.	.30	.06				.27		T.		T.	.01	.12	.12		.12	.34	.01	1.38
Kidder ‖	Grand									.04							.55					.05						.04		.25		.78	1.71
Lexington ‖	Missouri									T.							.53				.10					.05		.31	.14	T.	.09	.65	1.92
Liberty	......do								.02	.02	.02					.49	.20				.31				T.		.11	.11		.13	.40		1.81
Maryville ‖	......do									.36							.65								.01	.01		.03	T.		.14	.40	1.60
Oregon	......do								.39							1.04										T.	.07				.55		2.05
St. Joseph***	......do			T.		.01			.72					T.	.03	.67				.02	.01		T.			.01	.01	.03		.26	.48	.21	2.46
Tarkio	......do				.30				.16							.54														.07	.14		1.21
Trenton	Grand				.02				.09	.02				T.	.06	.79				.02	.03				.11	.05	.06	.03		.32	.67		2.27

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the ime of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch

** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. **Precipitation in the next following measurement. ↕ Separate ates of fall not recorded

Daily Temperatures for October, 1919.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	90	90	89	88	66	75	79	73	81	48	62	69	71	73	74	59	62	71	74	60	65	81	76	81	51	42	45	44	61	69	57	68.6
	Minimum	64	65	62	66	62	47	44	48	52	42	37	37	40	45	52	43	28	31	38	47	35	38	44	60	44	38	38	29	28	36	53	44.9
Columbia	Maximum	87	88	86	84	67	72	74	70	85	75	50	62	63	69	74	56	57	64	66	62	62	68	71	76	70	44	49	38	52	74	69	67.2
	Minimum	67	65	64	66	53	48	48	56	62	43	42	40	41	52	49	39	32	40	44	48	40	43	60	63	44	40	38	32	32	52	45	48.0
Fayette	Maximum	86	87	87	85	65	71	74	71	83	75	54	62	66	67	72	56	55	66	69	64	60	66	72	76	60	46	45	39	48	71	62	66.5
	Minimum	64	64	60	65	60	48	46	53	60	43	41	39	41	49	55	43	32	36	41	52	48	40	59	60	46	39	39	30	29	50	51	47.8
Hannibal	Maximum	87	87	85	83	74	74	75	74	85	77	56	62	64	73	67	54	58	64	67	64	61	67	64	71	70	42	48	42	50	73	69	67.3
	Minimum	70	67	66	66	54	50	48	52	64	43	40	37	40	50	48	41	33	36	42	48	40	42	52	59	42	40	41	32	30	50	43	47.4
Jefferson City §§	Maximum	88	88	86	83	70	74	75	70	84	60	47	61	64	67	75	55	55	65	67	63	61	70	72	75	58	45	51	43	57	74	70	66.9
	Minimum	65	64	62	63	62	51	49	50	54	48	42	41	40	40	51	46	34	34	35	40	40	40	51	60	51	42	41	33	34	40	44	46.4
Kirksville	Maximum	85	86	85	33	74	74	77	74	84	77	57	64	66	71	66	56	59	65	69	65	62	67	70	73	71	42	45	45	41	65	66	67.2
	Minimum	59	69	62	66	60	44	44	49	59	42	33	35	40	46	49	40	30	34	42	50	33	38	51	58	39	35	37	26	24	39	46	44.4
Louisiana	Maximum	88	86	86	85	80	72	75	73	84	81	63	60	63	73	68	66	58	64	65	60	60	66	65	70	75	69	64	58	52	55	73	69.4
	Minimum	68	62	58	65	64	50	44	45	60	44	42	35	34	37	50	46	32	33	37	42	38	37	52	57	51	48	42	34	33	40	46	46.0
Macon §§	Maximum	86	86	86	83	65	73	77	72	83	47	61	65	69	69	70	58	60	67	71	60	63	65	73	75	47	42	42	41	58	69	57	65.8
	Minimum	66	65	62	62	63	45	45	47	50	45	35	36	38	39	39	41	29	31	36	42	34	36	40	55	41	31	37	27	25	35	50	42.8
Mexico §§	Maximum	89	88	87	87	72	73	77	75	85	55	63	55	65	71	23	55	59	62	70	65	60	68	70	76	54	44	50	41	59	73	65	67.3
	Minimum	66	63	61	61	64	47	46	42	52	48	41	36	39	41	49	44	31	31	37	47	39	39	42	53	49	39	39	31	30	38	53	45.0
Oakfield	Maximum	92	91	90	86	80	74	78	75	85	79	47	61	60	72	69	65	61	67	68	74	65	69	69	70	76	64	59	55	47	70	71	70.6
	Minimum	67	65	62	67	65	50	51	53	61	44	41	38	45	50	58	46	36	38	44	46	44	42	54	60	61	43	53	35	37	46	46	49.6
St. Catharine	Maximum	85	92	85	84	77	73	76	73	84	80	57	69	67	59	65	56	58	65	70	62	62	64	72	76	74	44	44	42	42	65	66	76.7
	Minimum	66	69	60	65	60	46	42	50	62	43	32	33	35	48	50	40	28	33	43	50	33	36	52	59	42	34	36	24	23	35	48	44.4
St. Louis (1)	Maximum	89	88	85	81	79	72	74	73	82	76	49	60	60	70	69	62	57	64	66	72	60	64	66	70	78	54	62	47	50	73	71	68.5
	Minimum	72	69	69	70	62	57	58	59	63	46	43	43	48	53	62	48	44	44	48	51	50	47	55	61	54	45	46	39	41	50	53	53.2
Unionville	Maximum	87	88	86	84	75	74	78	80	84	75	60	67	66	73	63	56	60	66	70	61	62	65	74	75	75	52	46	42	43	64	65	68.1
	Minimum	66	65	61	65	56	46	50	46	60	40	28	30	38	47	46	40	27	32	41	50	34	38	50	55	38	33	35	21	20	34	45	43.2
Warrenton §§	Maximum	87	86	85	83	75	72	74	75	81	59	46	60	60	67	71	50	56	63	64	67	60	66	68	71	63	45	60	43	55	70	70	66.3
	Minimum	66	63	59	60	66	50	50	50	52	58	40	37	41	42	51	46	34	34	37	44	41	40	41	57	59	41	41	34	33	40	55	47.2
Southeast Lowlands.																																	
Caruthersville	Maximum	98	97	90	88	87	94	75	81	87	88	75	60	67	66	73	74	69	74	74	77	69	62	68	74	84	88	85	75	79	85	82	78.9
	Minimum	72	66	62	68	70	63	58	61	66	70	55	51	56	58	63	55	50	44	44	48	54	52	54	62	67	70	70	48	49	60	67	59.1
Doniphan	Maximum	88	87	85	82	81	75	75	75	82	82	65	63	62	68	72	66	63	63	66	71	65	66	71	68	81	80	82	72	75	72	73	73.4
	Minimum	61	59	59	67	69	59	54	67	65	65	48	49	48	54	60	50	43	36	37	41	50	46	59	62	66	69	68	43	52	46	57	55.1
Jackson	Maximum	92	91	88	82	78	78	78	77	82	87	82	62	67	64	75	70	63	67	70	72	67	61	65	70	85	80	85	77	62	80	76	75.3
	Minimum	60	59	58	68	65	56	48	53	53	65	46	48	41	41	58	52	43	33	37	38	50	42	55	62	68	59	55	43	44	49	65	52.1
Marble Hill	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Poplar Bluff	Maximum	92	91	89	89	75	80	76	74	77	82	75	64	66	68	75	67	65	56	66	65	65	62	68	68	75	77	77	75	60	79	74	73.2
	Minimum	61	60	58	67	68	59	51	58	62	68	49	49	43	54	60	52	42	32	39	42	54	46	58	61	67	68	69	44	46	52	65	55.0
Ozark Plateau.																																	
Arcadia §§	Maximum	87	86	85	80	78	77	74	71	82	76	50	63	61	64	76	61	58	64	67	70	62	61	73	71	83	63	81	53	62	73	70	70.2
	Minimum	63	60	59	60	65	51	48	49	48	64	43	44	37	40	54	57	38	30	30	33	37	39	42	65	63	55	51	39	36	42	61	48.4
Birchtree	Maximum	89	89	86	79	81	77	77	70	83	78	58	64	60	66	75	68	60	67	60	73	66	65	70	67	....	81	83	77	54	64	70	71.9
	Minimum	62	50	60	66	67	53	51	55	55	58	45	46	44	50	58	47	40	35	38	46	45	44	57	60	....	56	57	37	41	52	56	51.0
Cassville	Maximum	90	92	96	89	86	89	85	85	78	78	78	71	70	72	70	84	78	80	67	75	75	78	76	79	75	80	60	73	79	80	80	78.9
	Minimum	53	54	62	50	40	48	58	58	42	40	40	39	46	40	40	46	46	35	66	48	36	45	57	57	69	52	50	36	39	40	41	47.6
Eldon	Maximum	85	88	86	81	74	71	75	69	86	77	49	62	58	63	72	60	53	69	70	65	62	70	75	77	70	53	52	44	51	76	71	68.4
	Minimum	58	61	55	56	57	44	45	47	56	40	38	42	37	49	55	42	38	30	35	44	41	46	49	57	48	39	38	29	34	48	50	45.4
Farmington	Maximum	89	90	86	86	77	74	74	73	82	75	52	61	61	65	68	70	58	65	67	64	65	62	75	75	82	77	79	75	50	75	72	71.7
	Minimum	65	66	62	66	66	53	50	51	60	52	43	45	41	53	58	47	40	34	37	40	47	42	53	59	65	49	49	38	42	43	63	51.1
Gano	Maximum	89	87	87	83	79	74	77	71	84	76	50	60	62	66	76	65	57	65	66	70	65	70	75	70	84	76	78	68	59	68	73	71.9
	Minimum	62	60	58	65	60	49	47	47	57	48	39	43	39	54	57	45	37	30	34	41	43	42	56	57	64	46	45	50	33	48	61	48.9
Hollister	Maximum	61	90	90	85	80	82	80	70	86	78	60	65	60	75	80	71	68	70	73	78	71	75	80	80	85	80	80	65	53	80	76	76.0
	Minimum	55	51	54	60	63	51	55	57	60	55	45	48	43	50	61	49	41	36	38	45	49	49	64	58	63	55	55	39	43	45	63	51.6
Koshkonong	Maximum	....	....	....	90	78	74	77	70	84	86	64	61	68	74	75	76	74	68	66	72	65	67	70	69	81	77	82	76	57	70	69	72.9
	Minimum	....	....	....	66	68	55	56	57	61	63	50	46	53	55	60	60	58	37	41	47	44	43	59	62	67	63	69	39	44	53	64	55.0
Lebanon §§	Maximum	86	87	86	86	71	76	67	80	85	52	48	63	63	63	73	55	58	59	68	68	68	65	75	68	78	58	61	45	40	72	72	67.6
	Minimum	61	61	60	60	61	47	50	53	50	52	39	40	45	54	54	47	33	33	38	40	42	44	44	59	50	44	43	34	33	40	58	47.4
Mountain Grove §§	Maximum	86	86	85	78	76	84	78	82	71	64	52	64	64	68	74	48	62	64	65	71	64	63	69	70	81	74	69	48	56	58	61	68.8
	Minimum	66	58	57	61	64	50	51	52	56	50	41	42	43	46	51	48	38	37	39	42	46	47	52	56	58	61	56	35	36	42	49	49.4
Neosho	Maximum	87	86	86	86	78	76	77	73	84	78	52	64	70	64	80	71	67	72	76	70	66	75	81	80	78	57	67	45	56	77	77	72.8
	Minimum	54	65	58	66	60	48	50	55	60	46	43	48	46	46	54	45	39	35	36	50	45	44	61	57	45	45	43	35	41	55	61	49.7
Rolla	Maximum	90	89	88	88	88	77	75	78	84	80	55	47	62	63	65	77	49	61	70	72	70	64	73	76	71	83	51	65	46	59	72	70.6
	Minimum	63	64	63	64	63	50	49	48	50	52	41	42	42	43	54	49	37	35	36	38	45	43	43	59	62	46	45	34	34	40	60	48.2
Springfield	Maximum	85	85	84	81	68	74	75	63	82	72	49	60	63	65	74	63	59	66	68	68	62	67	73	76	77	58	75	45	55	72	73	68.9
	Minimum	66	63	64	62	56	52	59	58	62	42	41	47	48	53	60	41	35	41	47	48	46	49	60	62	56	46	38	35	38	54	48	50.9
Southwest Plain.																																	
Amoret	Maximum	90	91	90	81	72	75	78	76	84	64	62	65	68	65	73	65	61	71	72	65	66	69	73	80	72	60	46	42	42	70	67	69.5
	Minimum	64	67	57	62	58	44	45	47	50	38	41	35	39	50	55	40	24	32	40	46	35	36	60	60	40	36	36	28	32	42	48	44.7
Appleton City	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Clinton	Maximum	91	90	91	82	73	78	76	75	86	78	52	66	68	66	76	72	70	65	73	70	66	74	78	67	63	54	41	44	54	77	71	70.5
	Minimum	81	64	62	67	61	46	47	46	61	42	42	44	40	50	56	44	45	42	29	50	40	39	60	54	50	39	38	31	38	52	55	48.9
Harrisonville §§	Maximum	88	90	75	80	71	79	72	67	78	45	52	66	66	69	72	60	61	71	70	56	68	67	70	81	57	40	41	42	61	68	57	65.8
	Minimum	62	64	60	61	57	49	48	50	52	41	39	35	38	43	53	41	27	28	37	52	40	38	43	61	38	35	34	24	29	35	55	44.1
Lamar §§	Maximum	91	89	89	89	71	80	77	76	83	50	53	66	66	65	79	59	59	74	74	63	66	74	79	81	60	45	47	43	64	79	74	69.8
	Minimum	61	67	61	68	58	46	50	52	59	45	40	46	43	55	54	45	31	36	45	50	41	46	56	60	48	40	40	31	35	53	63	49.2
Lamonte	Maximum	90	89	88	88	70	72	75	71	86	85	53	65	66	65	73	61	61	69	72	64	64	69	78	80	73	52	45	41	50	60	65	69.0
	Minimum	65	67	64	63	59	42	41	47	60	42	43	40	37	49	51	43	27	32	41	49	35	42	58	60	44	38	38	30	28	35	49	46.1
Marshall	Maximum	87	88	87	88	74	79	76	70	82	80	53	65	66	67	72	64	55	69	70	60	64	65	74	....	76	59	45	44	47	72	71	69.0
	Minimum	66	64	58	67	45	45	46	49	60	41	41	35	38	48	52	42	28	39	39	49	36	39	58	....	43	31	38	29	29	42	50	44.9
Warrensburg	Maximum	80	80	74	81	83	81	81	80	72	70	68	78	74	70	58	60	66	70	63	71	74	62	63	68	65	54	46	48	51	50	....	68.0
	Minimum	44	50	56	60	66	55	52	60	52	46	44	56	54	48	42	34	38	46	52	56	47	50	47	52	46	40	34	26	28	34	....	47.2
Warsaw	Maximum	90	90	88	85	85	76	74	68	86	79	49	64	65	66	76	67	60	70	71	65	64	70	79	81	77	55	55	55	53	75	72	71.3
	Minimum	65	65	58	65	60	45	46	48	61	45	43	47	37	52	56	45	30	30	36	50	40	36	57	60	49	41	40	34	36	51	52	47.7
Northwest Plateau.																																	
Chillicothe §§	Maximum	92	92	91	88	82	76	79	75	87	83	62	69	70	71	65	60	62	72	70	70	71	66	80	83	80	47	45	47	43	69	70	71.5
	Minimum	64	61	62	65	60	43	41	59	65	43	33	32	40	40	52	38	25	34	45	48	33	46	55	59	40	35	37	24	26	42	46	45.1
Grant City	Maximum	87	87	85	83	68	74	76	70	79	68	64	67	68	67	58	48	59	68	70	66	64	66	70	76	72	47	40	45	45	63	63	66.4
	Minimum	65	68	64	67	55	45	44	50	53	37	31	35	41	52	46	34	27	34	42	41	33	37	53	52	34	30	33	19	24	40	43	42.9
Kansas City	Maximum	90	90	89	82	69	74	73	65	83	50	57	64	67	64	61	53	59	71	71	61	67	63	72	81	45	37	42	43	55	67	66	65.5
	Minimum	69	71	65	66	57	54	54	56	50	41	35	41	49	55	44	38	35	40	48	46	46	47	59	45	37	35	36	28	34	55	39	47.6
Kidder §§	Maximum	87	88	87	84	68	72	78	70	82	86	59	65	64	67	54	53	59	70	71	59	66	61	63	78	42	38	42	41	59	68	52	64.3
	Minimum	74	67	62	62	55	48	48	49	50	42	32	32	35	47	52	38	29	28	39	47	37	37	51	56	38	34	34	23	23	33	48	43.1
Lexington §§	Maximum	90	90	88	85	68	75	76	70	85	47	59	67	65	67	72	60	60	70	73	58	67	65	76	80	49	38	42	45	45	67	55	66.3
	Minimum	68	67	63	68	59	46	46	50	60	45	37	34	42	49	54	40	28	33	42	54	38	36	57	60	42	35	36	28	27	54	52	46.5
Maryville §§	Maximum	87	86	83	83	66	71	74	66	73	45	58	66	62	69	50	46	57	67	69	52	63	66	70	76	38	37	38	44	57	64	48	62.3
	Minimum	60	66	65	64	51	43	41	41	50	34	28	28	32	43	49	32	24	24	35	41	30	29	38	51	32	27	27	18	17	24	44	38.3
Oregon	Maximum	86	85	83	79	65	68	72	68	76	60	55	64	63	66	62	48	57	65	68	64	61	65	68	77	48	45	41	43	43	64	65	63.7
	Minimum	65	66	64	60	52	44	44	51	50	33	30	33	43	51	41	31	26	35	44	41	32	40	53	44	31	29	42	18	25	39	40	41.5
St Joseph	Maximum	89	89	89	80	67	71	75	67	80	47	59	67	65	64	56	47	60	70	71	58	66	66	73	79	41	37	39	41	50	65	63	64.2
	Minimum	70	72	67	60	53	48	46	52	47	38	33	35	47	55	44	34	29	40	49	43	36	43	58	41	35	34	34	24	28	50	35	44.5
Trenton	Maximum	84	85	84	84	81	70	71	73	81	78	55	61	62	65	60	53	54	63	66	62	59	63	70	74	71	52	56	47	44	64	60	66.2
	Minimum	68	67	62	67	58	48	45	50	56	44	32	36	42	49	48	36	30	35	47	50	35	39	50	54	39	35	36	24	26	41	39	44.8

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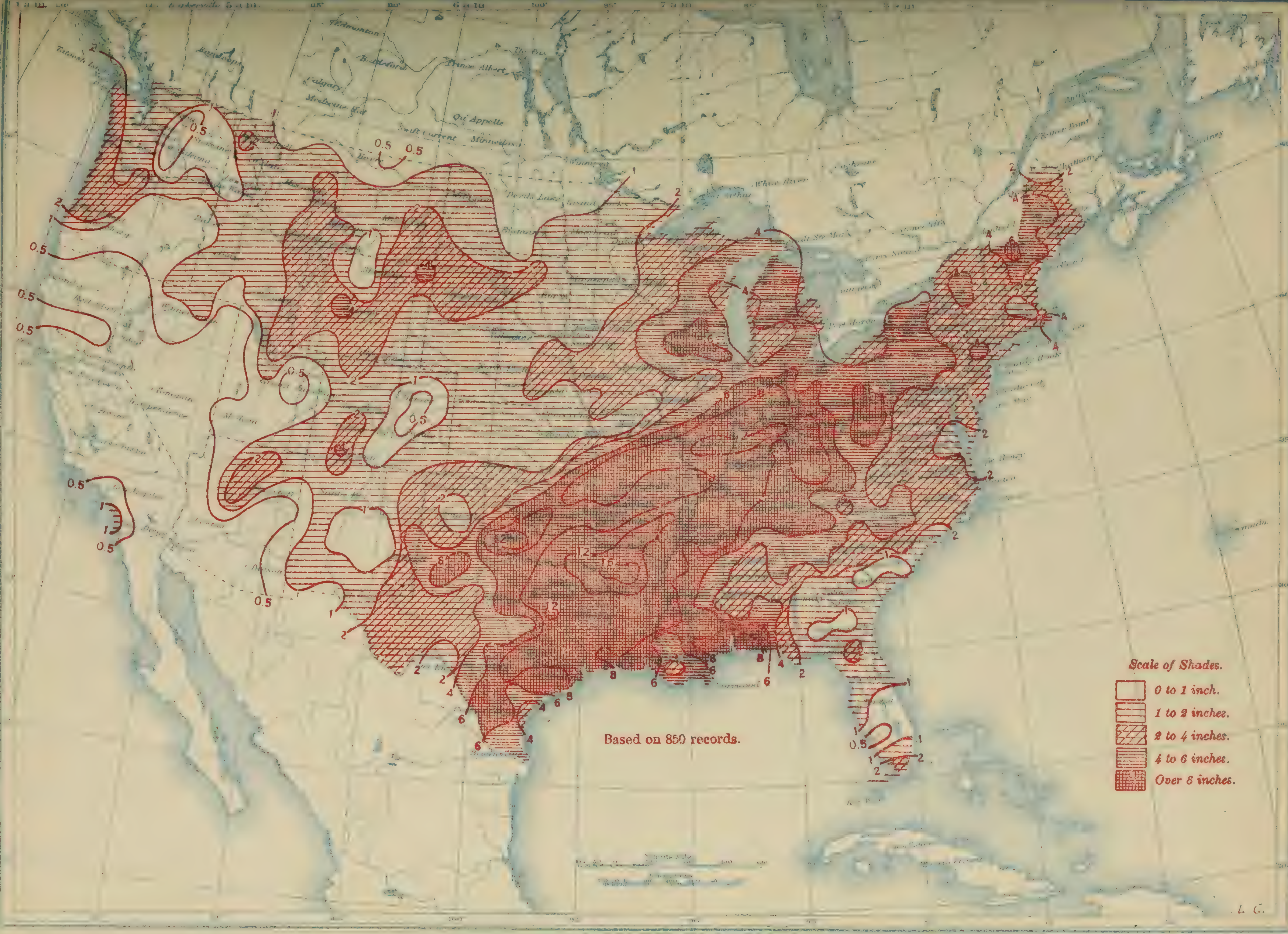
a, b, c, etc., indicate respectively 1, 2, etc., days missing from the record

§§ Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.


Scale of Shades.
0 to 1 inch.
1 to 2 inches.
2 to 4 inches.
4 to 6 inches.
Over 6 inches.
Based on 850 records.
Edmonton
Battleford
Prince Albert
Calgary
Medicine Hat
Qu'Appelle
Swift Current
Minnedosa
Winnipeg
White River
Devils Lake
Grand Forks
Bismarck
Moorhead
L. G.

Daily Evaporation (inches) and Wind Movement (miles) for October, 1919, at Columbia, Mo.

Date.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mo.
Columbia*	Evaporation	.071	.207	.180	.128	.127	.071	.075	.081	.027	.050	.092	.037	.062	.074	.027	††	.078	.166	.128	.092	.060	.045	.036	.005	.036	.002	.050	.000	.028	.007	.021	2.045
	Wind movement	17	22	23	23	23	19	10	8	35	48	39	16	15	21	8	28	26	11	14	19	9	11	16	16	42	31	28	52	23	17	25	696
University of Mo.†	Evaporation.....	.233	.254	.204	.162	.144	.096	.110	.128	.100	.176	.027	.063	.134	.050	.064	.127	.069	.109	.105	.063	.044	.073	.031	.076	.070	.007	.000	.018	.000	.012	.053	2.802
	Wind movement	56	81	72	70	66	25	15	62	140	89	56	38	75	39	26	74	35	26	67	62	33	58	45	111	106	103	44	61	48	84	68	1,935

*Observations taken at 7.45 a. m., Summer Time. †Observations taken at 5.30 p. m., Summer Time. Both stations are located on the University grounds; one on the West Campus and the other about one mile southeast on the Experiment Farm. To prevent confusion of records the former will be known as "Columbia" and the latter as "University of Missouri." The equipment is the same in both cases (see Annual Summary, 1918); but the Experiment Farm station has a freer exposure to sun and wind, comparing favorably with sea horizon. ††—.018

OBSERVERS' REMARKS.

Fayette—Killing frost occurred on the 29th, but did little or no damage.

Fulton—An unusual amount of rain fell from the 26th to the 28th, inclusive.

Gorin—The month was mild and favorable.

Kirksville—A fine October, with good weather, good crops, and good roads.

Macon—On the 10th the ground was dry for fall plowing and the wheat sowing is less than last year. Killing frost on the 17th did damage to garden truck and tender vegetation only. Corn is all cut and shocked, and it is well matured.

St. Catherine—On the 1st there was a great display of northern lights. The latter part of the month was cloudy most of the time and several showers occurred, but there was not much rain.

St. Louis University—The total precipitation for this month was the greatest ever recorded for October in St. Louis.

Warrenton—The greatest rainfall for October on my record, except October, 1905, when it recorded 8.74 inches. No frost and yet the leaves have ripened with beautiful colors and are falling.

Caruthersville—Month unusually rainy and warm and very unfavorable for picking cotton and planting wheat. Corn and cotton are damaged in the fields.

Doniphan—No wheat planted, except a few small patches, because of too much rain.

Arcadia—Aurora Borealis visible between 8.45 and 10 p. m. on the 1st.

Aurora—Beginning the night of the 25th rain fell almost contınously until 11.30 a. m. on the 28th. The rain of the 31st did considerable damage to roads and farms.

Farmington—As there was so much rain and cloudy weather there has not been much of the usual October weather. The forests are in full foliage and most of it is green.

Gano—No killing frost here. There has been 7.53 inches of rain in the last six days, but no material damage has been done. Wheat is not all sown.

Houston—This has been a very unfavorable month and the ground is so wet that the farmers cannot get their wheat sown. Pastures are good.

Lebanon—Frost was reported in several parts of the county on the 17th, 18th and 29th, but no damage done.

Lockwood—Heavy rainfall this month caused delay in fall seeding and the wheat acreage will be small. Pastures are coming out green.

Rolla—Light frost on the 18th, but no damage done. Rainfall 9.25 inches in 36 hours on the 26–27th.

Harrisonville—The 1st and 2d were windy and there was killing frost on the 17–18th.

Lamonte—The ground is thoroughly soaked. Corn gathering begun on small scale, but held up now on account of muddy fields. Wheat looks well and pastures are fine. Live stock in very good condition.

Warrensburg—Cloudy, windy weather prevented heavy frost on the 16th.

Warsaw—The first part of the month was ideal; the last 10 days were extremely wet. Rainfall was more than any October on record, causing flood stage of 28.5 feet, doing great damage.

Avalon—Very favorable during the past month for farmers. Pastures are good and live stock is in good condition.

Kidder—The first ten days of the past month were warm and dry, but low temperatures prevailed the last few days.

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rms

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

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CLIMATOLOGICAL DATA

MISSOURI SECTION

IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

NOVEMBER, 1919

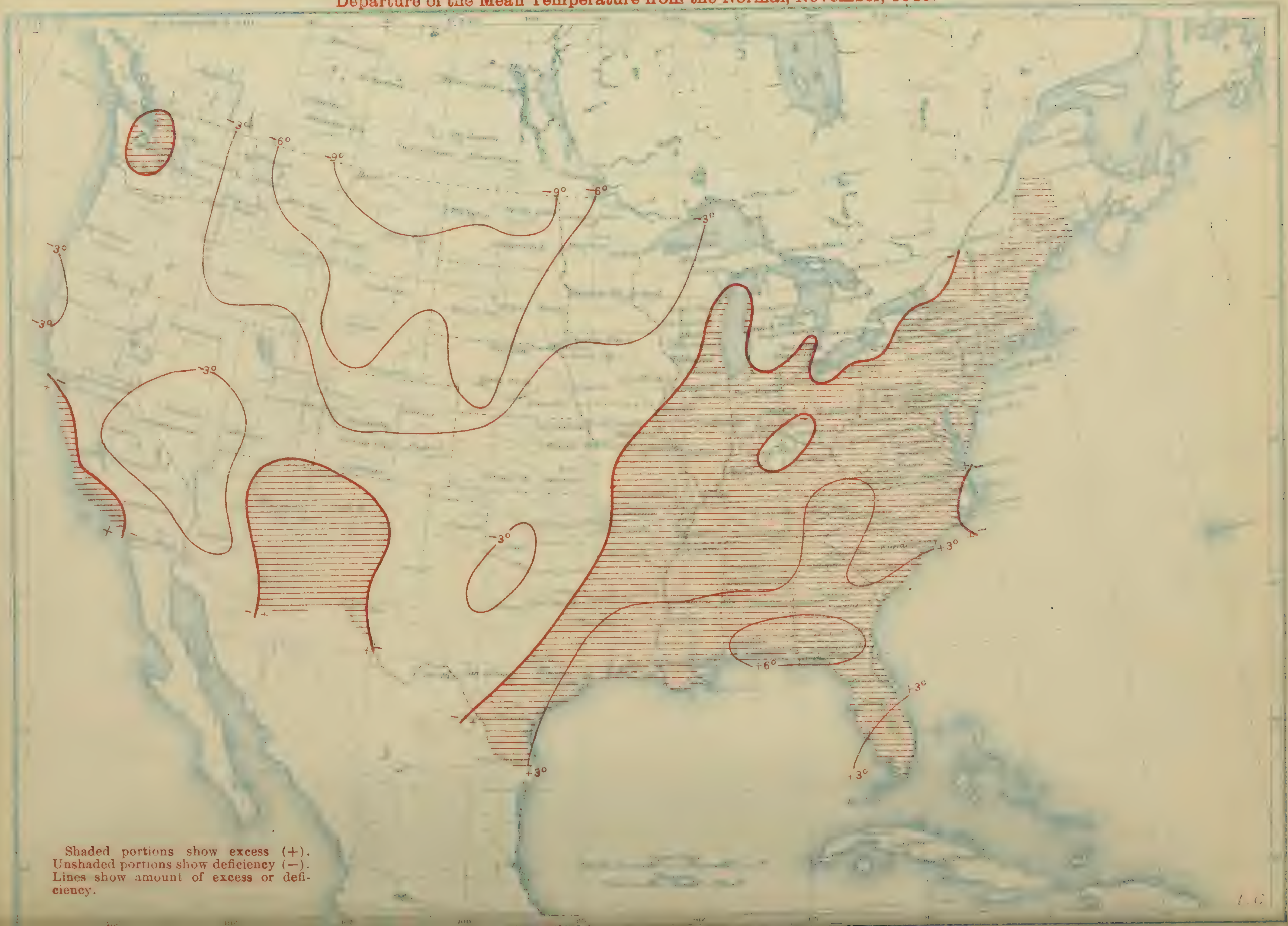
BY

GEORGE REEDER
METEOROLOGIST

1862 1889

COLUMBIA, MO.:
WEATHER BUREAU OFFICE
JANUARY 9, 1920

Departure of the Mean Temperature from the Normal, November, 1919.



Shaded portions show excess (+).
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXIII. COLUMBIA, MO., NOVEMBER, 1919. No. 11.

GENERAL SUMMARY.

October, 1919, in Missouri, was somewhat wetter than usual, but the temperature, sunshine, and wind movement differed but little from their respective normals. Precipitation was more or less general on the 1st, 6th to the 10th, and during the last week. On the whole, the month was pleasant, and generally favorable for outdoor pursuits, except the work of shucking and cribbing corn was retarded because of soft or muddy fields during the first ten and the last five or six days. Wheat made fair growth, and the color was good. Rains of the 27th, 28th and 29th, froze as they fell, forming a thin sheet of ice, but as it soon melted no damage was done to wheat.

TEMPERATURE.

The monthly mean temperature for the State, 65 stations reporting, was 42.2°. The departure from the normal for 62 stations having 10 or more years' record was —2.2°. The western half of the State was slightly colder than the eastern half, and the southeastern lowlands experienced about normal temperature. Mild and cold periods alternated during the month, the longest mild period prevailing from about the 15th to the 25th; the 13th was the coldest day for the State as a whole, and the 30th the coldest in the northern and western sections, the lowest temperature being 2° above zero at Maryville. The average number of days with temperature of 32° or lower, was 17.

PRECIPITATION.

The average precipitation, as shown by the records of 71 stations, was +3.62 inches. The departure from the normal for 69 stations having 10 or more years' record was +1.40 inches. All sections received more than the normal precipitation, the most marked being in the southeastern lowlands. Five or six stations in the southwestern plain received something less than normal. The heaviest monthly amounts, varying between more than 6 to nearly 8 inches, fell in the Black River and St. Francis River watersheds. The greatest fall in any consecutive 24 hours, however, was at Aurora, in the southwestern Ozarks.

The snowfall was somewhat heavier than usual, but was confined mostly to the northern half of the State.

WIND.

The prevailing winds were from the northwest. The average monthly wind movement, 8 stations equipped with anemometers reporting, was 7,592 miles, or an average hourly velocity of 10.6 miles. This is about 5 per cent above the normal. Strong winds occurred on the 10th and 29th, but no material damage was reported.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well selected regular stations equipped with sunshine recorders reporting, was 170, or about 56 per cent of the possible, and about 1 per cent greater than normal.

DATES OF MISCELLANEOUS PHENOMENA.

Frost, killing (first of season).—For southern Ozark slope, 2d; southeastern lowlands, 13th; St. Louis City, 5th.

Halos, solar.—3d, 16th, 17th, 23d, and 24th.

Halos, lunar.—3d and 5th.

Fog, dense.—6th, 28th and 29th.

Sleet and Glaze.—27th, 28th, and 29th.

Thunderstorms.—On the 6th; thunder heard 1st, 9th, 24th, 25th, 28th, and 29th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.10	81	......	172	57	6,502	9.0	39	sw.	29
Hannibal	30.10	79	......	......	......	7,149	9.9	48	sw.	10
Kansas City	30.10	75	59	185	61	9,371	13.0	46	sw.	10
St. Joseph	30.10	78	64	165	55	6,610	9.2	39	nw.	11
St. Louis	30.10	76	62	163	54	9.801	13.6	64	sw.	29
Springfield	30.10	82	68	159	52	8,181	11.4	36	w.	29
Cairo, Ill	30.11	82	70	......	......	6,665	9.3	56	sw.	29
Keokuk, Iowa	30.13	79	64	166	56	6,460	9.0	63	sw.	10

COMPARATIVE DATA FOR NOVEMBER.

Year.	Temperature.				Precipitation.				Number of Days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	41.6	−2.0	87	15	3.26	+0.94	......	......	11	.....	.....	.....
1889	39.9	−3.7	73	8	3.43	+1.11	......	......	7	.....	.....	.....
1890	46.5	+2.9	80	20	2.31	−0.01	......	......	5	.....	.....	.....
1891	39.6	−4.0	82	− 2	3.60	+1.28	......	......	5	.....	.....	.....
1892	40.1	−3.5	79	9	2.60	+0.28	......	1.0	6	11	7	12
1893	40.9	−2.7	79	− 1	1.54	−0.73	4.86	0.3	4	14	9	7
1894	41.0	−2.6	80	3	1.58	−0.74	2.20	T.	4	15	9	6
1895	41.6	−2.0	82	2	3.37	+1.05	2.98	3.2	8	10	7	13
1896	42.3	−1.3	82	5	2.18	−0.14	4.00	0.2	6	11	7	12
1897	43.4	−0.2	82	− 3	2.40	+0.08	3.39	T.	6	11	8	9
1898	39.9	−3.7	79	− 8	2.28	−0.04	2.75	2.3	6	14	8	8
1899	49.5	+5.9	82	16	1.90	−0.42	2.66	0.2	7	11	9	10
1900	43.7	+0.1	84	7	2.58	+0.26	4.55	0.2	6	15	7	8
1901	43.6	0.0	84	9	1.38	−0.94	1.90	0.3	4	17	7	6
1902	50.1	+6.5	85	18	3.62	+1.20	2.14	0.4	9	8	9	13
1903	40.9	−2.7	79	2	1.24	−1.08	2.44	1.1	5	13	8	9
1904	46.3	+2.7	83	11	0.22	−2.10	0.68	T.	2	21	5	4
1905	45.8	+2.2	83	2	1.94	−0.38	2.49	T.	6	18	6	6
1906	42.5	−1.1	88	− 3	2.60	+0.28	3.60	5.0	8	12	6	12
1907	43.8	+0.2	88	5	2.52	+0.20	3.00	T.	4	19	4	7
1908	47.6	+4.0	87	9	4.14	−1.82	4.00	0.2	8	15	7	8
1909	53.6	+10.0	87	11	4.43	+2.11	6.18	0.4	8	12	7	11
1910	42.0	−1.6	83	11	0.38	−1.94	0.70	0.1	3	15	8	7
1911	39.1	−4.5	93	− 3	2.55	+0.23	2.15	1.1	7	13	6	11
1912	45.9	+2.3	88	12	1.52	−0.80	2.37	0.1	3	20	5	5
1913	51.7	+7.4	80	11	2.73	+0.35	2.50	T.	7	10	8	12
1914	48.6	+4.0	89	2	0.65	−1.84	1.90	0.1	3	19	6	5
1915	49.5	+4.9	87	12	2.76	+0.33	2.62	0.1	5	16	7	7
1916	49.6	+5.9	85	3	2.49	+0.14	2.53	0.1	4	19	4	4
1917	46.1	+1.5	80	8	1.05	−1.46	3.26	T.	3	14	5	11
1918	44.9	+0.5	85	12	3.18	+0.79	4.60	1.2	6	15	4	11
1919	42.2	−2.2	78	2	3.62	+1.40	3.36	1.0	6	15	5	10

SUPPLEMENTAL TABLE OF DATA.

Stations.	Length of record, years.	Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
		Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Arlington	15	......	....	......	......	....	....	....	....	......	Wm. R. Bennett.
Boonville	41	2.54	+0.19	1.40	0	8	14	2	14	w.	C. Randecker.
C. Girardeau	11	4.06	+0.32	1.05	0	11	16	3	11	n.	D. L. Albert.
Glencoe	1	2.35	....	1.02	0	5	16	1	13	......	L. M. Beard.
Hermann	44	3.28	+0.46	1.50	0	5	14	0	16	e.	W. E. Crawford.
New Madrid	24	7.17	+3.36	2.20	0	10	10	8	12	ne.	Miss Josie Smith.
Osceola	18	2.65	−0.34	1.34	0	7	18	2	10	......	Wm. E. Mathews.
Pacific	1	2.20	....	0.71	0	7	14	1	15	e.	Mark Waters.
Steelville	16	2.48	−0.31	0.80	0	8	18	0	12	w.	A. Kreamelmeyer
Tuscumbia	1	3.20	....	1.23	0	7	15	1	14	n.	C. B. Wright.
Union	1	3.51	....	1.41	0	8	14	2	14	nw.	J. Wm. Keller.
Valley Park	1	2.74	....	0 70	0	8	13	6	11	......	T. W. McNeese.
Waverly	3	2.57	....	1.33	0.4	8	19	0	11	n.	J. W. Cauthorn.

Climatological Data for November, 1919.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipitation 0.01 or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	39	40.2	−1.0	67	23	13	30	34	2.79	+0.83	0.95	3.0	10	18	1	11	nw.	O.K. Benecke.
Clifton Hill	Randolph	731	20	38.8	−4.9	69	3	13	30	31	2.62	+0.89	1.00	0.2	5	20	0	10	......	L. S. Harlan.
Columbia	Boone	784	30	42.2	−0.2	64	23	16	13	30	2.84	+0.53	1.08	0.1	9	16	4	10	se.	U. S. Weather Bureau.
Fayette	Howard	725	36	37.8	−4.8	63	23	14	13†	31	3.14	+1.09	1.18	T.	8	11	9	10	s.	Prof. D. R. Briggs.
Fulton	Callaway	818	28	42.8	−1.7	68	3	14	13	36	2.67	+0.27	0.90	0.0	6	15	5	10	w.	Prof. Claude A. Jones.
Gorin	Scotland	700	32	.....	......	......	......	......	......	....	3.06	+1.10	1.42	1.0	5	9	10	11	nw.	J. W. Pulliam.
Hannibal	Marion	534	27	41.1	+0.6	62	23	15	30	28	2.63	+0.68	1.08	0.3	8	13	6	11	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	31	41.0	−3.4	65	3	16	13	36	3.16	+0.87	1.40	T.	7	17	3	10	s.	Miss Emma Swift.
Kirksville	Adair	969	38	39.3	−1.0	63	17†	8	30	32	3.10	+1.35	0.83	1.6	7	16	5	9	s.	Prof. Mark Burrows.
Louisiana	Pike	469	39	42.2	−1.9	66	1†	16	13	39	2.93	+0.72	1.42	T.	5	18	0	12	w.	J. T. Farrell.
Macon	Macon	875	26	38.3	−5.9	63	23	10	30	37	2.95	+1.00	1.40	1.6	6	12	7	11	s.	W. C. Brown.
Mexico	Audrain	797	41	39.4	−3.7	64	23	14	13†	38	2.74	+0.34	1.14	T.	7	19	1	10	e.	Mrs. Abbie Snoddy.
Oakfield ‡‡	Franklin	793	34	43.5	−2.9	70	3	15	13	30	2.59	−0.16	1.14	0	7	11	10	9	n.	E. E. Steines.
Palmyra	Marion	652	20	^{b}37.6	−5.5	62	17†	14	13†	34	2.84	+0.53	1.20	0.5	7	9^{b}	10^{b}	9^{b}	nw.	W. B. Markell.
St. Catherine	Linn	850	8	39.4	......	65	23	7	30	34	2.68	......	0.96	5.5	7	13	7	10	w.	L. D. Baker.
St. Charles	St. Charles	456	41	43.2	−2.1	70	3	17	13	32	1.96	−0.68	1.22	T.	3	14	4	12	nw.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	46	44.8	+1.4	68	3	20	13	31	2,08	−0.80	0.70	T.	7	14	6	10	nw.	U. S. Weather Bureau.
St. Louis (2)	.....do	578	7	44.0	......	68	3	20	30	32	2.71	......	0.83	T.	10	15	4	11	se.	St. Louis University.
Shelbina	Shelby	779	26	.....	......	......	......	......	......	....	3.35	+1.24	1.70	0	4	....	....	....	......	S. G. Parsons.
Steffenville	Lewis	650	26	40.8	−3.0	65	23	11	13	37	4.04	+2.11	1.25	2.0	8	14	6	10	s.	Frank Hall.
Unionville	Putnam	1,072	26	38.1	−1.9	60	23	6	30	32	4.13	+2.44	2.10	2.0	7	14	4	12	nw.	Geo. W. Davis.
Warrenton	Warren	865	29	40.8	−2.1	63	9	15	13	39	4.41	+1.77	2.11	0	7	11	7	12	nw.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	47	39.3	−0.1	60	10	13	30	30	2.53	+0.68	1.25	1.6	9	12	7	11	nw.	U. S. Weather Bureau.
Section means and	extremes	....	....	40.7	−2.3	70	3	6	30	39	2.95	+0.80	2.11	0.8	7	14	5	11	nw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	28	51.8	+2.0	73	17†	24	14	38	7.23	+3.40	1.78	0	6	19	1	10	e.	H. E. Averill.
Doniphan	Ripley	344	15	46.2	−1.7	72	23	19	14	39	7.96	+5.02	2.36	0	9	17	2	11	s.	W. W. Martin.
Jackson	Cape Girardeau	458	29	^{a}47.0	+0.2	73	23	19	14	43	6.91	+3.82	2.27	0	6	10	11	9	......	L. M. Bean.
Marble Hill	Bollinger	420	27	.....	......	......	......	......	......	....	.....	......	......	......	....	....	....	....	......	F. W. Wells.
Patton (near)	Bollinger	500	9	.....	......	......	......	......	......	....	4.79	+2.71	1.61	0	5	....	....	....	......	George F. Ellis.
Poplar Bluff	Butler	339	15	46.6	−1.0	73	23	19	13	42	6.47	+3.22	1.96	0	7	16	2	12	......	Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill	359	44	47.8	+0.9	67	23	23	13	35	6.47	+2.45	1.61	0	9	13	4	13	n.	U. S. Weather Bureau.
Section means and	extremes	....	....	47.9	+0.1	73	17†	19	13†	43	6.64	+3.04	2.36	0	7	15	4	11	......	
Ozark Plateau.																				
Arcadia	Iron	925	41	44.2	+0.1	73	23	17	13	41	5.70	+2.06	1.74	T.	11	13	4	13	e.	Arcadia College.
Aurora	Lawrence	1,370	....	45.4	−0.6	70	23	16	13	39	6.88	+4.09	3.36	T.	9	19	0	11	nw.	C. D. Sprague.
Birchtree	Shannon	1,078	25	^{b}45.3	−1.2	73	23	15	13	40	5.65	+4.05	2.00	0	5	19	3	8	n.	K. H. Kirkendall.
Bolivar	Polk	1,071	32	44.9	−1.7	70	3†	14	13	37	2.59	+3.06	0.98	0	7	16	4	10	se.	V. H. Brown.
Cassville	Barry	1,475	20	45.5	−1.7	74	6	14	13	43	4.22	+1.86	1.99	0	4	15	6	9	n.	R. H. Wallen.
Dean ‡‡	McDonald	1,000	20	.....	......	72	23	14	13	....	5.74	+2.74	1.84	0	7	21^{b}	0	7^{b}	......	H. E. Dean.
Eldon	Miller	934	20	41.8	−3.8	69	3	11	12	38	3.01	+0.76	1.00	T.	8	12	8	10	n.	E. H. Shepherd.
Farmington	St Francois	918	22	44.5	0.0	69	23	17	13	32	3.93	−0.17	1.17	0	7	13	9	8	ne.	Robert Forsyth.
Gano ‡‡	Dent	1,250	18	43.4	−4.0	70	23	11	13	36	2.64	+0.24	1.01	0	8	17	2	11	se.	A. C. Leach.
Goodland	Iron	1,000	26	44.4	−0.3	73	23	15	13†	45	3.70	+0.66	1.50	0	4	18	2	10	n.	F. M. Adams.
Hollister	Taney	735	15	47.4	−1.0	78	10	15	13	43	5.65	+2.89	1.80	0	6	18	0	12	ne.	W. P. Chapmaun.
Houston	Texas	1,280	26	45.9	−0.7	71	23	15	13	34	3.36	+0.87	1.35	T.	7	17	3	10	se.	R. F. Harmon.
Koshkonong	Oregon	958	18	^{b}46.8	−3.0	72	23	17	13	33	7.85	+4.96	2.55	0	8	14^{b}	1^{b}	13^{b}	ne.	R. M. Hitt.
Lebanon	Laclede	1,265	33	42.6	−3.7	70	23	13	13	41	3.57	+0.99	1.33	0	6	20	5	5	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	23	45.2	−3.0	69	23	15	13	34	2.81	+0.57	1.35	T.	4	16	3	11	sw.	C. S. Crow.
Mountain Grove	Wright	1,490	21	43.7	−3.4	65	23	15	13	32	4.41	+1.97	1.52	0	5	14	2	14	sw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	36	46.0	−1.3	71	24	14	13	38	5.84	+2.81	2.53	0	9	15	7	8	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,139	35	44.4	−0.6	72	3	15	13	40	2.98	+0.63	1.02	T.	5	16	5	9	sw.	Prof. Elmo G. Harris.
Springfield	Greene	1,350	31	44.4	0.0	68	23	17	13	27	4.49	+1.85	1.68	T.	9	14	5	11	se.	U. S. Weather Bureau.
Section means and	extremes	....	....	44.7	−1.7	78	10	11	13	45	4.48	+1.95	3.36	T.	6	16	4	10	se.	
Southwest Plain.																				
Amoret	Bates	831	12	42.0	−4.2	71	23	11	30	37	1.90	+0.24	1.30	T.	3	12	12	6	s.	Darby Fruit Farm.
Appleton City	St. Clair	853	27	.....	......	......	......	......	......	....	.....	......	......	......	....	....	....	....	......	....
Clinton	Henry	765	32	^{b}46.5	−1.0	72	23	15	13	34	1.40	−0.52	0.70	0	2	14^{b}	4^{b}	10^{b}	sw.	A. E. Derwent, M. D.
Harrisonville ††	Cass	912	44	40.5	−2.0	71	23	11	30	35	1.94	+0.19	1.35	0.5	5	13^{a}	5^{a}	11^{a}	......	John H. Patterson.
Lamar	Barton	980	33	44.5	−2.3	73	23	14	13	38	1.63	−0.65	0.92	0	5	17	2	11	s.	Joe W. Springer.
Lamonte	Pettis	863	32	41.6	−3.1	68	24	13	13	40	2.87	+0.96	1.20	T.	5	12	2	16	sw.	J. Ed. Hall.
Marshall	Saline	779	30	40.5	−5.5	66	23	12	13	35	2.88	+0.78	1.45	0.5	5	17	3	10	sw.	Dr. W. H. Black.
Nevada	Vernon	860	27	42.5	−2.0	65	24	14	13	30	1.17	−0.77	0.60	T.	3	18	3	9	s.	George A. Kaupp.
Warrensburg	Johnson	883	42	.....	......	......	......	......	......	....	.....	......	......	......	....	....	....	....	......	Geo. H. Collins.
Warsaw	Benton	715	23	43.6	−4.3	70	23	13	13	38	3.51	+1.09	1.15	T.	8	17	4	9	n.	J. R. Smith, M. D.
Section means and	extremes	....	....	42.7	−3.0	73	23	11	13	40	2.41	+0.42	1.45	0.1	5	15	5	10	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	22	40.7	−3.1	66	23	10	30	32	2.30	+0.37	1.50	2.5	5	16	6	8	nw.	F. G. Ashbaugh.
Bethany	Harrison	916	28	38.4	−5.0	60	2†	5	30	35	4.32	+2.73	1.55	3.2	7	16	5	9	nw.	M. H. Moulton.
Chillicothe	Livingston	768	11	.....	......	......	......	......	......	....	.....	......	......	......	....	....	....	....	......	R. L. Isherwood.
Conception	Nodaway	982	35	38.4	−3.0	62	24	5	30	34	2.78	+1.50	1.63	4.0	6	11	8	11	nw.	Fr. Adelhelm Hess.
Edgerton	Platte	856	....	39.8	......	67	23	9	30	39	2.63	......	0.82	0.8	7	14	6	10	n.	H. Killingsworth.
Gallatin	Daviess	803	17	.....	......	......	......	......	......	....	.....	......	......	......	....	....	....	....	......	....
Grant City	Worth	1,134	29	38.6	−4.2	62	23	5	30	39	2.94	+1.48	1.37	4.0	5	13	5	12	nw.	W. H. Campbell.
Kansas City	Jackson	963	30	41.3	−0.2	66	23	13	30	32	2.44	+0.59	1.21	2.6	6	17	3	10	n.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	31	37.6	−4.7	63	24	8	30	36	2.99	+1.29	1.43	2.0	5	15	2	13	sw.	J. F. Sharp.
Lexington	Lafayette	688	36	40.8	−3.4	68	23	12	30	33	2.13	+0.28	0.92	1.2	6	17	0	13	n.	J. W. Keithley.
Liberty	Clay	864	29	41.3	−2.4	68	23	7	30	35	2.55	+0.85	1.30	1.0	5	17	5	8	nw.	James H. Harris.
Maryville	Nodaway	1,036	26	34.7	−4.3	61	24	2	30	35	3.95	+2.47	2.39	5.0	9	17	1	12	n.	J. R. Brink.
Oregon	Holt	1,048	63	37.8	−2.4	63	24	4	30	42	4.39	+2.71	3.02	6.0	3	15	4	11	nw.	Tom Curry.
St. Joseph	Buchanan	967	45	39.6	−4.8	65	24	9	30	36	2.44	+0.69	1.15	2.4	8	14	7	9	nw.	U. S. Weather Bureau.
Tarkio	Atchison	976	27	38.5	−1.6	64	1	4	30	41	2.97	+1.67	2.25	2.0	5	13	7	10	nw.	John F. Frazier.
Trenton	Grundy	822	24	38.7	−3.9	61	23	9	30	30	3.85	+1.69	1.74	4.0	6	16	3	11	n.	W. H. Estes.
Section means and	extremes	....	....	39.0	−3.3	68	23	2	30	....	3.01	+1.31	3.02	2.9	6	15	4	11	nw.	
State means and	extremes	....	....	42.2	−2.2	78	10	2	30	42	3.62	+1.40	3.36	1.0	6	15	5	10	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.

† Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Oakfield, Pacific, R. F. D. No. 1; of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for November, 1919.

Stations.	Watersheds.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville ‖	Missouri	.04					.22	.05			.64											.09						.06	.04	1.40			2.54
Brunswick ‖	Grand						.50	.04	.08	.10	.96											.02				.05		.07	.08	.90			2.79
Clifton Hill	Chariton						.38				.62																	.02	.60	1.00			2.62
Columbia***	Missouri	.02					.75	T.		.88	.21										T.	.02			T.		.01	.01	.57	.37			2.84
Fayette	do	.02					.76			.01	.57											.05						.02	.53	1.18			3.14
Fulton	do						.90	.01		.37	.78																		.24	.37			2.67
Glencoe ‖	Meramec	.22					T.	1.02			.45											T.					.14	T.		.52			2.35
Gorin	Mississippi						.38			1.16																		.07	1.42	.03			2.35
Hannibal***	do						.37			.81	.06											.20			T.		.02	.06	.68	.43			3.06
Hermann ‖	Missouri	.02						.70			1.00																	.06		1.50			3.28
Jefferson City ‖	do	.03						.37	.01		1.40											.05						T.		1.25	.05		3.16
Kirksville	Mississippi						.53			.23	.80														T	.03		.13	.55	.83			3.10
Louisiana	do						.28			T.	1.10											.03				T.	T.	T.	.10	1.42			2.93
Macon ‖	Chariton						T.	.23			1.10											.06						.07	.09	1.40	T.		2.95
Mexico ‖	Mississippi	.02						.58			.90												.05			T.		.02		1.14	.03		2.74
Oakfield	Meramec	.27					1.14			.25	.40											T.					.05	.03		.45			2.59
Pacific ‖	do	.35	T.				.03	.71			.54																.11	.04		.42			2.20
Palmyra ‖	Mississippi	.01					.35				1.20											.13				T.	.05		.16	.94	T.		2.84
St. Catherine	Grand						.43	.02		.08	.70											T.						.05	.44	.96			2.68
St. Charles	Missouri	.22					1.22		T.	T.																	T.	T.		.52			1.96
St. Louis (1)***	Mississippi	.25					.70	T.	T.	.39	.11											T.					.14	T.	.03	.46			2.08
St. Louis (2)	do	.34					.83		.01	.59	.17											.01					.16	.01	.04	.55			2.71
Shelbina	do						.45			1.10												.10								1.70			3.35
Steffenville	do						.35			.20	.85											.05						.09	.25	1.25	1.00		4.04
Union ‖	Meramec	.29					.09	1.44			.92																.05	.04		.66	.02		3.51
Unionville	Chariton						.35			1.10	1.00															.15		.08	.65	.80			4.13
Valley Park ‖	Meramec																																
Warrenton ‖	Mississippi	.50					.05	.70	.01		.99												T.					.05		2.11	T.		4.41
Keokuk, Iowa***	do						.09			.81	.11										T.	.10		.02	.01		T.	.07	1.00	.32	T.		2.53
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi	1.05	.10				.02	.53			.25	.02														.20	.62	.22		.85	.20		4.06
Caruthersville	do	1.38					T.	T.	T.	.72	.85															1.00	1.78		T.	1.50			7.23
Doniphan	Black	2.36					.25			.75	1.35										.05					1.40	.75		.05	1.00			7.96
Jackson	Mississippi	.59					.82				2.07											.02				1.14				2.27			6.91
Marble Hill	do																									.65							
New Madrid ‖	do	1.10	.11					.10	.01		1.60	.10															2.20	.20	T.	1.40	.35		7.17
Patton (near)	do	.75							1.49																.59	.35				1.61			4.79
Poplar Bluff ‖	Black	1.49					.01		T.	.85	.10											T.				1.42	.64		T.	1.96			6.47
Cairo, Ill.***	Mississippi	1.39					.53		T.	.69	.59											.03				1.47	.25	T.	.16	1.36			6.47
Ozark Plateau.																																	
Arcadia ‖	St. Francis	1.65	.08				T.	.13	.01	.01	1.74												T.			.15	.78	.02		1.12	.01		5.70
Arlington ‖	Gasconade																																
Aurora	White	1.27								.33	.61										T.	.14				3.36	.17	.06	.03	.91			6.88
Birchtree	Black	.50								1.25	1.30															2.00	.60						5.65
Bolivar	Osage	.40					T.			.25	.66											.13				T.		.03	.14	.98			2.59
Cassville	White	1.99																						1.00	.23	1.00							4.22
Dean	Neosho	1.07								.75	.77											.34				1.84	.05		.92				5.74
Eldon	Osage	.11					.22	.03		.92	.46											.07						T.	.20	1.00			3.01
Farmington	St. Francis	.68					.27		T.	.25	1.17															.17	.49		.90				3.93
Gano	Meramec	.62					.26	T.	T.	.18	.83											T.				.17	.14	.04		.40			2.64
Goodland	Black	.80								.77	1.50															.53							3.60
Hollister	White									1.10	.45											.60				1.80	1.30			.40			5.65
Houston	Gasconade	.35					.11			.25	.67															1.35	.43	T.		.20			3.36
Koshkonong	Black	1.14								1.44	1.58											T.				2.55	.70	.05	.04	.35			7.85
Lebanon ‖	Osage	.70						T.	T.		1.33											.10				.03	.12	T.		1.29			3.57
Lockwood	do									.13	1.35																		.10	1.23			2.81
Mountain Grove ‖	White	.53						.08			1.52															1.35	.93	T.	T.				4.41
Neosho	Neosho	1.10								.35	.75											T.				2.53	.11	.06	.09	.75	.10		5.84
Rolla ‖	Meramec	.86						.37	T.	T.	1.02											T.				T.	.19	T.		.54			2.98
Springfield***	White	.42					T.	T.		1.38	.02											.19				1.58	.18	.01	.44	.27			4.49
Steelville ‖	Meramec	.80						.32		.04	.80												.04				.20			.28	.20		2.68
Tuscumbia ‖	Osage	.24						.52	T.	.03	1.23											.08						T.	T.	1.07	.03		3.20
Southwest Plain.																																	
Amoret	Osage						T.			.52	.08											T.					T.	T.	1.30				1.90
Appleton City	do																																
Clinton	do										.70																		.70				1.40
Harrisonville ‖	do						.05	.03		.03	.42																		.06	1.35			1.94
Lamar ‖	Neosho	.10									.50											.11							.26	.66			1.63
Lamonte	Missouri	T.					T.			.12	1.00																	.10	.45	1.20			2.87
Marshall	do						.42		T.	.38	1.45																T.	T.	.58	.05			2.88
Nevada	Osage						.04				.53																	T.	.60				1.17
Osceola ‖	do	.09					.05				1.34											.02							.09	1.02	.04		2.65
Warrensburg	Missouri																																
Warsaw ‖	Osage	.18					.25			.18	.90											.35						T.	.27	1.15	.23		3.51
Waverly ‖	Missouri						.32	.03		.06	.66															T.		.02	.14	1.33	.01		2.57
Northwest Plateau.																																	
Avalon	Grand						.40		.10	.25																		.05		1.50			2.30
Bethany	do						.55			1.55	.92											.18						.02	.50	.60			4.32
Chillicothe ‖	do																																
Conception	Missouri						.34			1.63	.41										T.	T.						.07	.03	.30			2.78
Edgerton	do						.44			.82	.38											.03					T.	.03	.40	.53			2.63
Gallatin	Grand																																
Grant City	do						.44	T.	T.	1.37	.73										T.	T.		T.	T.		T.	T.	.10	.30			2.94
Kansas City***	Missouri						.07			.90											T.						.04	.17	1.15	.11			2.44
Kidder ‖	Grand						.25	.10		.26	1.43																		.95				2.99
Lexington ‖	Missouri						.10			.13	.70																	.08	.20	.92			2.13
Liberty	do						.10			.96	.14											T					T.	.05	1.30				2.55
Maryville ‖	do						.03	.26		.73	2.39		T.									.05						.02	.02	.30	.15		3.95
Oregon	do						.22			3.02			T.								T.						T.	T.		1.15			4.39
St. Joseph***	do			T.			.32		.02	1.13	T.										.05	T.					.12	.06	.59	.15			2.44
Tarkio	do						.42			2.25											.10								.20	T.			2.97
Trenton	Grand						.41				1.74										T.	T.			T.		.15	.25	.47	.33			3.35

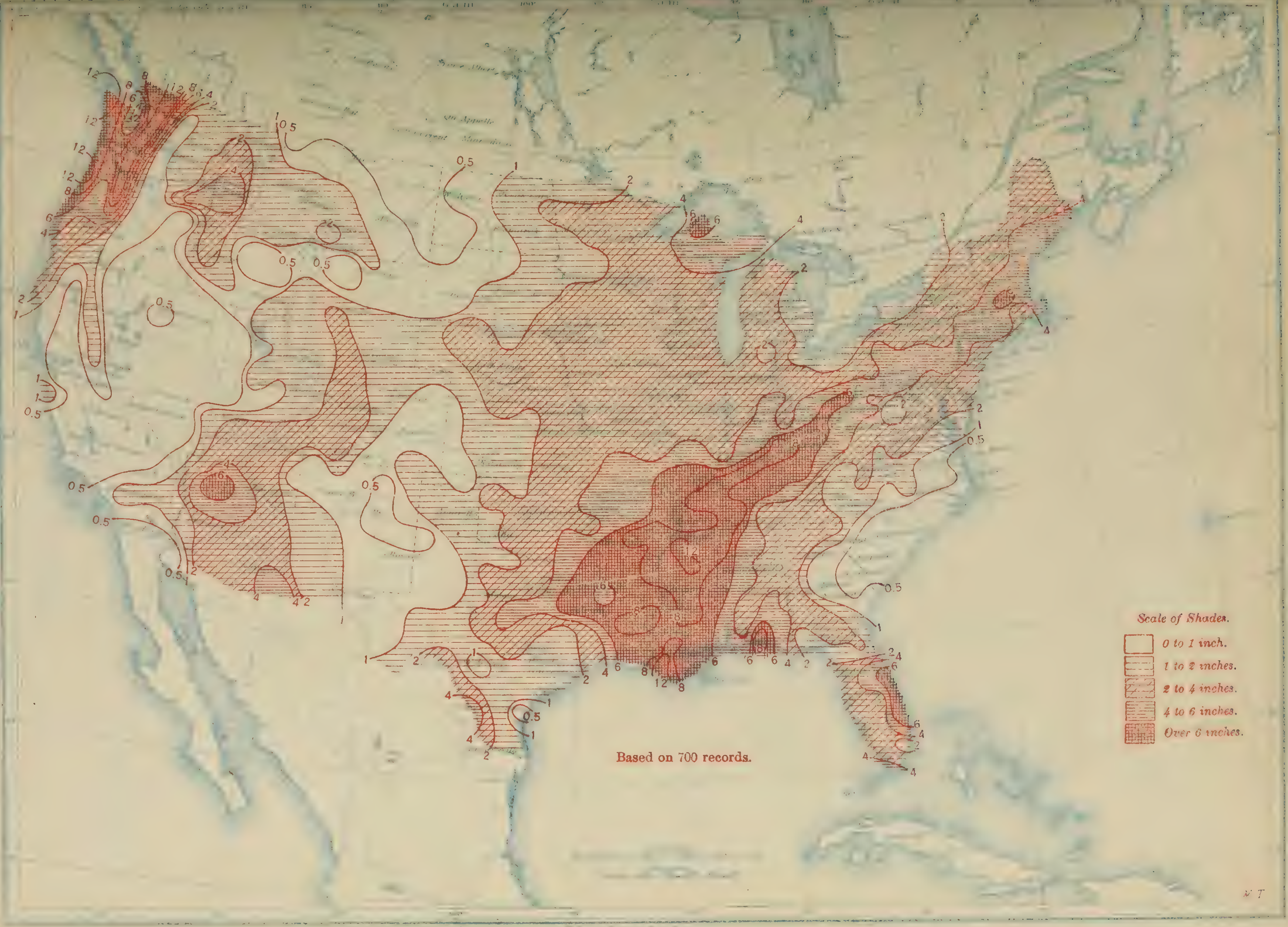
Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. **Precipitation in the next following measurement. ‡ Separate dates of fall not recorded

Daily Temperatures for November, 1919.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	52	63	61	44	55	46	46	54	62	49	56	28	42	50	59	62	61	60	51	65	53	51	67	64	40	34	30	36	34	21	....	49.9
	Minimum	31	29	35	28	26	38	39	41	45	41	26	17	14	23	25	30	31	34	31	35	45	32	36	30	32	30	24	24	29	13	....	30.5
Columbia	Maximum	52	57	62	44	56	47	46	49	62	60	54	42	39	47	58	64	58	57	52	59	56	64	64	63	58	35	29	38	42	27	....	51.3
	Minimum	35	30	44	29	29	43	42	44	49	39	30	20	16	29	28	39	35	34	33	39	37	35	41	33	35	29	25	28	23	16	....	33.0
Fayette	Maximum	48	58	59	30	56	46	44	49	61	48	51	28	37	46	55	60	56	54	51	58	53	57	63	61	42	32	29	33	34	26	....	44.5
	Minimum	33	28	39	28	26	43	40	42	48	42	28	17	14	24	24	32	35	34	33	38	43	33	37	31	32	29	24	23	23	14	....	31.2
Hannibal	Maximum	49	56	62	46	52	47	46	49	61	60	51	42	37	46	51	62	61	55	47	53	55	57	62	56	57	33	29	38	45	29	....	49.8
	Minimum	33	28	42	30	28	42	42	45	47	42	32	20	16	29	24	37	38	37	31	35	39	34	39	36	33	29	24	28	24	15	....	32.4
Jefferson City §§	Maximum	49	57	65	39	57	47	45	53	62	54	54	28	39	49	57	63	58	55	52	58	60	60	64	63	56	35	31	44	39	30	....	50.8
	Minimum	38	28	30	30	28	28	41	41	44	46	31	21	19	17	26	27	38	35	31	31	38	36	38	32	32	32	26	26	30	18	....	31.2
Kirksville	Maximum	50	58	58	53	53	53	45	47	57	59	51	40	37	43	54	59	63	56	50	58	58	60	63	57	57	34	27	31	33	24	....	49.6
	Minimum	27	30	36	25	26	38	39	42	44	41	25	14	10	32	22	37	32	32	28	32	40	32	33	29	32	24	20	22	18	8	....	29.0
Louisiana	Maximum	66	66	62	60	50	47	76	50	55	60	54	50	40	44	50	62	62	58	50	54	58	55	54	56	60	47	42	42	46	43	....	53.0
	Minimum	40	27	38	30	24	42	42	43	46	43	38	22	16	24	22	30	34	38	25	33	40	32	32	34	25	32	22	27	30	18	....	31.5
Macon §§	Maximum	52	58	59	44	55	45	44	49	60	46	54	28	38	48	55	60	61	57	52	59	51	58	68	59	41	31	27	37	34	27	....	48.4
	Minimum	29	29	37	25	24	30	39	40	43	64	25	15	12	15	21	23	31	30	28	31	36	34	37	29	35	27	21	21	26	10	....	28.2
Mexico §§	Maximum	50	50	61	43	55	47	45	49	62	54	53	30	39	49	55	63	62	55	51	57	57	59	64	60	42	31	30	43	29	31	....	49.6
	Minimum	35	28	34	28	26	29	40	40	43	39	28	19	14	17	21	25	35	32	27	30	36	34	36	28	33	29	24	24	29	14	....	29.2
Oakfield	Maximum	58	57	70	56	55	49	47	49	62	65	55	44	39	52	57	65	63	57	51	54	60	61	63	59	62	42	33	40	53	37	....	53.8
	Minimum	37	31	40	33	28	40	40	30	46	48	32	26	15	27	27	38	40	35	30	34	40	36	39	33	40	31	28	28	27	18	....	33.2
St. Catharine	Maximum	50	58	59	55	53	52	43	49	60	60	52	47	39	47	53	60	60	58	52	58	62	57	65	59	58	34	28	37	32	24	....	50.5
	Minimum	27	27	35	23	23	40	40	40	44	36	24	13	10	26	23	84	30	28	36	34	40	30	36	26	31	24	20	20	20	7	....	28.2
St. Louis (1)	Maximum	53	55	68	52	54	51	49	50	66	65	54	44	37	49	53	63	62	57	48	51	59	60	61	55	62	40	35	46	57	33	....	53.0
	Minimum	40	39	42	36	34	43	42	46	48	45	38	24	20	29	31	41	44	40	34	36	41	40	43	40	40	33	30	32	26	21	....	36.6
Unionville	Maximum	50	58	58	51	54	50	46	47	52	56	52	44	38	40	54	57	58	54	52	58	53	58	60	57	52	32	30	31	34	20	....	48.5
	Minimum	26	28	35	23	22	25	34	40	43	35	23	12	10	26	28	35	32	30	28	33	40	33	42	32	30	24	19	22	16	6	....	27.7
Warrenton §§	Maximum	50	57	67	43	55	48	45	49	63	60	55	32	42	48	55	64	62	56	50	55	56	48	62	60	48	33	30	47	46	33	....	50.6
	Minimum	37	32	35	29	27	29	39	40	44	44	31	24	15	15	25	25	38	34	29	29	36	36	41	32	32	32	27	27	30	16	....	31.0
Southeast Lowlands.																																	
Caruthersville	Maximum	70	65	71	67	67	71	65	57	65	66	66	56	48	62	67	68	73	68	62	62	72	70	73	72	62	53	45	48	57	58	....	63.5
	Minimum	47	40	39	48	37	46	47	49	55	57	37	36	25	24	30	32	37	42	38	36	36	42	38	42	53	42	40	39	44	27	....	40.2
Doniphan	Maximum	60	56	65	56	56	65	67	55	65	65	55	45	42	56	56	60	67	63	58	56	60	65	72	61	63	48	43	41	61	46	....	57.6
	Minimum	45	32	34	36	33	45	45	46	51	49	32	30	20	19	26	25	31	35	35	28	32	33	33	34	47	38	38	34	35	25	....	34.9
Jackson	Maximum	72	72	68	60	58	58	57	57	57	65	60	50	40	58	60	64	72	70	55	55	55	66	73	65	66	55	45	64	45	....	....	60.4
	Minimum	42	31	34	42	28	35	44	47	50	54	31	29	20	19	23	25	30	32	28	32	28	30	30	30	45	37	33	38	25	....	....	33.5
Marble Hill	Maximum	....	....	....	....	....	....	....	....	....	....	....	61	58	60	59	63	72	65	61	58	55	65	73	72	68	....	....	....	....	....	....	....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	20	18	19	25	26	33	39	33	30	29	34	38	33	33	....	....	....	....	....	....	....
Poplar Bluff	Maximum	67	59	58	60	55	61	57	54	62	61	59	49	45	59	61	63	69	68	56	54	58	68	73	65	62	47	41	43	62	50	....	58.2
	Minimum	42	31	35	41	31	41	45	47	51	51	32	31	19	20	28	27	34	37	32	32	30	34	34	36	44	38	37	34	35	24	....	35.1
Ozark Plateau.																																	
Arcadia §§	Maximum	54	57	69	52	56	55	47	53	62	66	59	39	45	60	60	64	70	59	52	54	55	66	73	60	59	38	35	60	50	48	....	55.9
	Minimum	45	29	30	41	26	32	41	41	45	52	34	31	17	19	22	25	33	39	28	29	33	39	34	29	30	36	34	30	31	24	....	32.6
Aurora	Maximum	61	61	69	58	55	65	48	54	60	62	58	58	44	55	60	64	62	60	58	57	53	62	70	67	64	40	37	40	46	47	....	56.5
	Minimum	39	31	39	39	33	46	40	43	50	43	28	21	16	25	21	33	36	33	30	40	41	48	40	37	40	35	30	30	25	21	....	34.4
Birchtree	Maximum	44	60	70	60	51	60	57	....	58	64	58	52	46	59	61	64	71	63	58	53	58	....	73	66	59	53	37	38	48	57	....	57.1
	Minimum	41	30	37	41	30	38	41	....	43	52	33	26	15	19	26	29	36	39	30	36	34	....	32	35	41	37	31	32	20	30	....	53.5
Cassville	Maximum	70	63	71	56	56	74	50	62	63	64	66	49	42	52	62	55	66	67	63	62	57	67	71	71	71	71	42	43	48	50	....	60.1
	Minimum	41	28	35	35	31	45	40	25	21	27	30	27	14	21	28	35	34	33	25	24	41	33	31	28	28	31	32	33	36	36	....	30.9
Eldon	Maximum	53	61	69	53	60	49	45	49	61	61	58	45	42	59	60	65	62	57	58	62	60	62	67	65	62	35	28	44	43	38	....	54.3
	Minimum	33	26	42	26	25	40	37	41	45	40	26	11	12	20	22	31	35	31	27	36	39	33	35	30	34	23	23	22	21	14	....	29.3
Farmington	Maximum	49	56	68	60	56	53	50	48	58	58	57	51	37	56	56	64	65	59	49	52	57	65	69	66	56	41	36	44	41	40	....	53 9
	Minimum	39	31	38	38	29	39	40	44	47	54	34	29	17	24	27	36	41	39	30	37	37	39	42	34	41	34	30	30	29	24	....	35.1
Gano	Maximum	66	60	69	58	58	56	50	50	68	61	58	46	38	51	58	62	62	55	52	55	56	62	70	61	56	39	32	40	45	37	....	54.4
	Minimum	38	26	40	34	25	43	38	40	46	47	28	23	11	25	22	32	37	35	38	35	39	35	38	31	38	30	27	26	25	19	....	32.4
Hollister	Maximum	70	62	70	64	65	70	65	65	75	78	60	54	45	60	62	68	70	68	56	60	57	68	75	70	63	46	42	40	40	49	....	61.2
	Minimum	45	32	35	40	32	46	45	44	50	44	29	28	15	18	20	25	32	31	25	40	40	32	35	33	38	39	36	31	30	21	....	33.7
Koshkonong	Maximum	65	....	66	59	60	65	58	54	60	64	57	45	42	56	59	....	67	62	58	52	55	65	72	65	62	44	40	40	50	55	....	57.2
	Minimum	45	....	33	41	32	38	36	45	50	49	33	30	17	24	29	....	42	42	34	37	37	40	42	40	43	38	35	32	32	23	....	36.4
Lebanon §§	Maximum	54	58	47	47	59	63	58	58	62	58	57	33	43	54	60	64	64	58	58	59	55	69	70	62	56	33	34	49	41	41	....	54.1
	Minimum	30	31	31	34	30	30	37	38	42	45	28	23	13	13	25	30	37	32	29	29	40	36	39	37	37	33	26	26	28	20	....	31.0
Mountain Grove §§	Maximum	53	58	63	51	57	63	45	56	53	57	62	35	45	53	58	62	64	61	58	57	59	60	65	56	54	36	34	36	42	46	....	53.8
	Minimum	52	30	32	36	30	33	39	41	45	43	30	25	15	25	28	32	36	36	32	36	39	40	42	45	45	34	30	29	23	21	....	34.1
Neosho	Maximum	61	65	70	60	65	68	50	58	67	64	59	53	47	57	61	66	64	62	61	64	56	65	70	71	66	41	39	45	44	51	....	59.0
	Minimum	39	30	41	36	30	48	41	44	52	35	27	20	14	20	24	31	32	28	25	42	45	31	35	33	40	35	32	30	26	21	....	32.9
Rolla §§	Maximum	52	67	72	46	60	55	44	53	61	60	60	34	46	50	61	65	67	58	59	60	64	64	70	65	53	34	31	52	45	42	....	55.0
	Minimum	42	29	32	40	28	40	40	40	43	50	31	24	15	27	26	37	39	30	31	36	40	36	36	35	44	34	30	28	32	20	....	33.8
Springfield	Maximum	52	56	68	48	54	62	44	51	62	61	54	43	41	53	57	63	60	58	55	54	53	62	68	62	63	36	36	46	47	41	....	53.6
	Minimum	38	35	43	34	34	41	39	43	49	37	35	20	17	29	34	40	41	37	36	41	41	39	44	42	36	33	28	28	23	23	....	35.3
Southwest Plain.																																	
Amoret	Maximum	55	61	65	50	58	50	45	52	64	61	59	48	45	52	58	65	63	60	60	63	54	65	71	70	61	34	28	32	30	32	....	53.7
	Minimum	32	30	42	28	28	43	32	40	47	32	26	15	12	32	22	34	34	31	30	40	43	32	36	33	31	28	21	22	20	11	....	30.2
Clinton	Maximum	65	64	67	60	61	68	47	54	65	62	60	47	40	52	59	64	64	60	63	64	54	65	72	66	62	48	42	45	....	....	....	58.6
	Minimum	54	30	40	30	30	45	40	42	48	36	28	17	15	23	26	33	35	36	30	40	44	33	46	34	36	30	30	32	....	....	....	34.4
Harrisonville §§	Maximum	56	62	66	45	57	49	45	52	63	58	55	32	43	51	60	62	65	62	59	61	52	59	71	61	42	33	27	32	29	29	....	51.3
	Minimum	30	30	42	27	28	30	38	39	43	33	29	15	12	13	27	29	35	34	30	30	42	34	36	35	35	32	32	22	29	11	....	29.7
Lamar §§	Maximum	58	70	70	49	59	66	46	58	66	50	60	34	45	58	60	65	65	64	61	63	55	63	73	69	48	38	38	40	31	42	....	55.5
	Minimum	37	32	42	32	32	50	40	40	45	35	28	18	14	29	28	33	33	32	32	41	41	33	37	39	45	33	27	25	30	20	....	33.5
Lamonte	Maximum	53	61	62	50	59	52	45	49	60	55	49	42	42	52	59	59	60	58	60	62	62	64	66	68	66	36	36	32	36	33	....	52.9
	Minimum	32	28	41	28	26	43	39	42	45	38	27	17	13	28	25	32	33	81	32	36	35	31	36	28	26	30	24	24	22	14	....	30.2
Marshall	Maximum	51	60	60	53	55	52	45	50	61	61	64	47	27	45	54	61	58	56	53	61	58	60	66	64	60	35	30	32	32	26	....	51.2
	Minimum	31	28	38	27	25	29	29	41	47	39	27	16	12	26	23	34	34	31	29	37	33	32	35	29	35	30	25	24	23	13	....	29.8
Warrensburg	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Warsaw	Maximum	54	62	68	55	61	54	47	51	63	62	58	52	44	54	60	66	63	59	60	63	56	63	60	67	63	78	33	34	41	37	....	55.7
	Minimum	36	37	37	31	27	45	41	44	49	40	26	19	13	20	22	27	30	27	24	44	43	32	32	31	38	32	26	27	24	18	....	31.4
Northwest Plateau.																																	
Chillicothe §§	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Grant City	Maximum	52	60	57	49	49	49	42	47	52	59	52	48	41	41	54	57	60	58	52	58	55	59	62	60	57	44	30	30	32	29	....	49.8
	Minimum	25	27	35	23	25	39	35	40	40	33	24	9	9	18	22	32	33	32	30	37	40	33	42	31	26	23	12	19	24	5	....	27.4
Kansas City	Maximum	53	61	60	41	57	52	42	48	62	48	56	27	43	46	58	63	60	56	56	60	62	64	66	66	58	33	25	31	32	25	....	50.0
	Minimum	32	36	40	26	31	40	38	42	48	34	24	14	19	31	29	40	40	39	35	44	44	39	45	39	29	25	20	20	20	13	....	32.6
Kidder §§	Maximum	52	60	59	42	52	45	43	49	60	42	54	23	39	45	57	60	60	58	53	60	51	59	56	63	48	35	30	32	28	24	....	48.0
	Minimum	28	28	32	24	25	28	37	37	43	34	28	12	11	14	23	24	32	32	28	28	39	34	38	32	32	28	20	19	22	8	....	27.3
Lexington §§	Maximum	52	60	65	42	55	46	44	49	60	45	56	28	40	50	49	62	60	60	57	60	53	65	68	65	42	35	25	32	32	26	....	49.4
	Minimum	30	31	40	26	28	45	39	42	47	36	27	15	13	29	24	37	36	36	30	40	47	36	43	32	40	30	22	23	30	12	....	32.2
Maryville §§	Maximum	52	60	57	41	48	44	41	49	58	38	54	25	41	43	55	55	59	58	54	58	47	57	60	61	35	26	20	30	20	20	....	45.5
	Minimum	24	24	31	20	22	26	33	33	39	31	22	7	7	8	22	21	25	30	29	29	33	32	30	31	31	24	15	15	15	2	....	23.9
Oregon	Maximum	48	60	58	42	49	49	42	48	57	59	54	49	41	41	54	58	61	57	54	58	57	59	61	63	61	28	25	28	30	23	....	49.1
	Minimum	24	30	38	21	26	35	32	38	43	29	24	7	10	24	22	32	31	30	30	39	38	33	38	33	23	20	14	16	14	4	....	26.6
St Joseph	Maximum	52	62	58	40	52	50	43	48	60	54	56	25	42	46	58	60	61	58	56	58	51	58	63	65	50	32	23	31	31	20	....	48.8
	Minimum	29	35	34	25	30	38	37	42	47	34	20	12	17	29	27	38	35	34	33	42	40	39	41	37	29	21	18	20	18	9	....	30.4
Trenton	Maximum	50	55	57	48	50	48	44	49	55	59	48	44	36	41	51	57	56	54	50	57	51	57	61	57	54	35	29	32	32	21	....	47.9
	Minimum	28	29	37	25	27	41	38	41	36	38	28	14	14	28	25	35	32	32	31	36	38	32	40	31	30	27	22	22	19	9	....	29.5

a, b, c, etc., indicate respectively 1, 2, etc., days missing from the record the preceding day, on which it almost always occurs.

§§ Instruments are read in the morning; the maximum temperature then read is charged to


Scale of Shades.
0 to 1 inch.
1 to 2 inches.
2 to 4 inches.
4 to 6 inches.
Over 6 inches.
Based on 700 records.

Daily Evaporation (inches) and Wind Movement (miles) for November, 1919, at Columbia, Mo.

Date.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mo
Columbia*	Evaporation	.100	.057	.063	.032	.047	.052	.050	.009	.001	.131	.097	.068	‡020	‡008	‡010	‡020	.023	.083	.048	.057	.052	.032	.048	.049	.060	.040	.088	‡035	‡020	‡005	....	1.3
	Wind movement	43	26	19	68	34	51	40	33	41	72	75	47	59	20	33	39	31	23	26	38	39	48	28	32	50	96	78	65	24	19	....	1,2
University of Mo.†	Evaporation	.116	.078	.093	.120	.068	.069	.030	.004	.020	.194	.032	‡079	‡078	‡078	‡079	.048	.079	.079	.084	.104	.098	.063	.071	.100	.068	.047	‡095	‡056	‡039	‡015	....	2.1
	Wind movement	86	33	64	121	67	100	78	79	152	202	64	94	30	38	50	53	47	48	67	98	90	82	60	78	113	134	67	43	130	74	....	2,4

*Observations taken at 6.45 a.m. †Observations taken at 5.00 p.m. Both stations are located on the University grounds; one on the West Campus and the other about one mile southeast on the Experiment Farm. To prevent confusion of records the former will be known as "Columbia" and the latter as "University of Missouri." The equipment is the same in both cases (see Annual Summary, 1918); but the Experiment Farm station has a freer exposure to sun and wind, comparing favorably with sea horizon. ‡ Pan frozen, amounts estimated.

OBSERVERS' REMARKS.

Brunswick—Strong winds on the 10th.

Clifton Hill—First snow of the season was on the 27th and measured one-fourth inch.

Fayette—November was a very disagreeable month with two-thirds of the days cloudy.

Gorin—Two days of high wind, but no damage of importance. Month ended cold.

Kirksville—A violent and erratic wind on the 10th caused some damage.

Macon—First snow of the season on the 27th.

St. Catherine—High winds on the 10th blew down some corn. Snowstorm and high winds on the 29th. The month was excellent for shucking corn and most of the corn has been harvested.

Unionville—Very high northwest wind on the 10th. First snow on the morning of the 27th. There was rain, snow and sleet on the 28th, and the month ended with rain, snow and sleet and high northwest wind.

Warrenton—Some nice fall weather and late seeding done. Pastures are good, but the roads are in poor condition due to so much rain.

Farmington—The month, as a whole, was more pleasant than October as there was more sunshine, but it was cold and very remarkable in that there was no snow or sleet.

Doniphan—Excessive rain greatly hindered wheat sowing and not over 60 per cent of the normal acreage has been planted.

Lockwood—November has been a very pleasant month. Corn husking and fall plowing are well advanced. Stock are doing well and there is ample moisture for wheat.

Amoret—The wheat crop was not all sown by the end of the month.

Harrisonville—First snow of the season fell on the 28th. On the 29th rain fell and froze, forming a coat of ice on everything.

LaMonte—Partial eclipse of the sun on the 22d. Snow flurries on the 29th and sleet on the 27th.

Avalon—The past month has been very favorable for gathering corn, and corn is in good, dry condition.

Kidder—Low temperature prevailed during the entire month. The month ended clear and cold with one-half inch of sleet on the ground.

Liberty—On the 28th there was a drizzling rain that froze and formed a coat of ice on everything.

Maryville—High winds on the 3d, 10th, 11th, and 25th.

MS

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

MISSOURI SECTION

IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

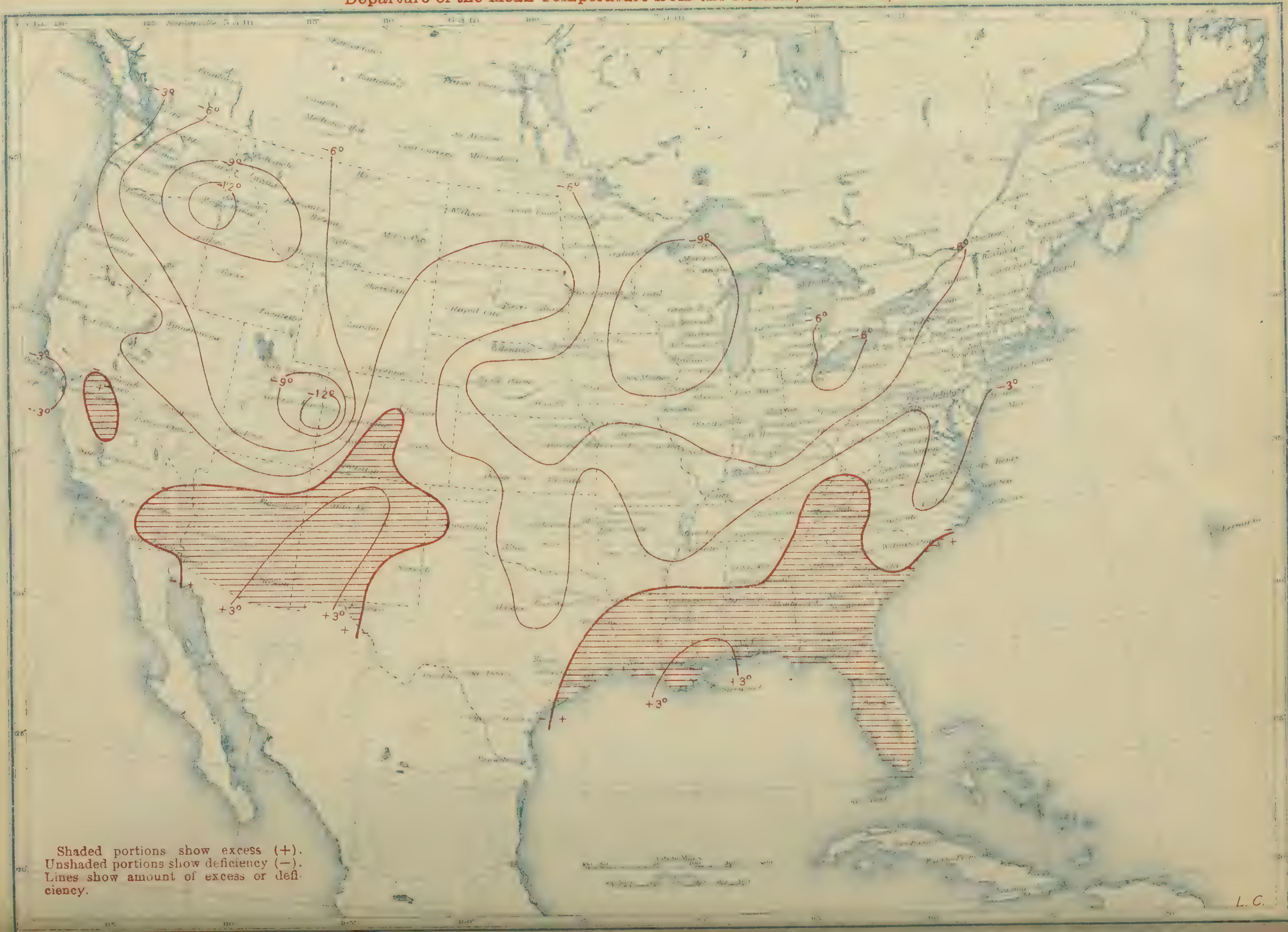
DECEMBER, 1919

BY

GEORGE REEDER
METEOROLOGIST

COLUMBIA, MO.:
WEATHER BUREAU OFFICE
JANUARY 29, 1920

Departure of the Mean Temperature from the Normal, December, 1919.



Shaded portions show excess (+).
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXIII. Columbia, Mo., December, 1919. No. 12.

GENERAL SUMMARY.

The outstanding features of December, 1919, in Missouri, were scanty precipitation, excessive cloudiness, and persistent cold, although rather free from sudden severe temperature changes.

There was much mist and fog from about the 19th to the 24th, and during much of this time trees and other objects were thickly covered with glazed frost, the whole appearance impressing one as if living in a beautiful crystal world. Damage was confined to a few telephone and telegraph wires, and scattered breakage of small trees and limbs.

The weather was too cold for much outdoor work, though considerable corn was husked and cribbed. The roads most of the time were in fine shape for traffic in general. The wheat crop made little or no growth, but otherwise was in fair condition. Much thick ice of fine quality was housed on the more northern farms.

TEMPERATURE.

The monthly mean for the State, as shown by the records of 65 stations, was 28.5°, or 4.5° below normal, and 11.5° colder than the same month in 1918. The temperature was almost continuously below the average until the last week, when there was quite a marked change to milder weather, the 29th and 30th being the mildest days of the month. The second week was the coldest period, when the temperature deficiency averaged about 15° a day. The lowest temperatures, however, occurred on the morning of the 10th, when about two-thirds of the stations in the northern and western portions of the State reported zero readings, —22°, at Tarkio, Atchison County, being the minimum; the average was about —8° for the northern section; 0° to —4° in the central, and 0° to 1° above zero in the southern counties. Temperatures of 32° or lower occurred on 29 days at 30 or more stations, which is quite unusual. The northern half of the State averaged about 4° colder, and the southwestern plain more than 2° colder than the Ozark Plateau.

PRECIPITATION.

The average precipitation for the State, as determined from the records of 79 stations, was 0.59 inch. The departure from the normal for69 stations having 10 or more years' record was —1.50 inches. The month was about the second driest of its name since 1876, and was in marked contrast to December, 1918. Precipitation was general only on about three days during the first ten and one day during the last ten days; most of the precipitation was light snow, or rain that froze as it fell. The deficiency was uniform in all divisions, but a local exception might be made at Caruthersville, in the extreme southeast, where the monthly total was 4.30 inches, 2.65 inches of this amount falling on the 13th.

WIND.

The prevailing winds were from the northwest. The average monthly wind movement was 7,267 miles, or an average hourly velocity of 9.8 miles. This is about normal for December. There were no strong winds.

SUNSHINE AND CLOUDINESS.

There was more cloudiness than usual. The average number of hours of sunshine, for the State as a whole, was 121. This is about 41 per cent of the possible, and 7 per cent below normal.

DATES OF MISCELLANEOUS PHENOMENA.

Fogs, dense.—4th, 6th, 19th, 20th, 21st, 22d, 23d and 24th.
Halos, solar.—3d, 9th and 16th. Lunar—3d and 7th.
Sleet.—5th, 8th, 9th and 13th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Max. velocity. Direction.	Max. velocity. Date.
Columbia	30.20	86	......	113	38	6,193	8.3	30	nw.	12
Hannibal	30.20	82	......	......	......	6,647	8.9	25	sw.	14
Kansas City	30.21	80	75	120	41	8,934	12.0	37	n.	31
St. Joseph	30.21	85	78	115	40	5,998	8.1	29	nw.	31
St. Louis	30.18	78	68	110	37	9,148	12.3	51	sw.	12
Springfield	30.19	89	75	156	52	8,065	10.8	31	se.	11
Cairo, Ill	30.19	86	76	......	......	7,297	9.8	35	nw.	31
Keokuk, Iowa	30.23	78	71	111	38	5,853	7.9	28	w.	12

COMPARATIVE DATA FOR DECEMBER.

Year.	Temperature. Mean.	Departure.	Highest.	Lowest.	Precipitation. Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of Days. With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	35.9	+ 1.7	70	0	2.29	+0 24	......	......	6	.....	.....	.....
1889	46.8	+12.6	78	2	0.96	−1.09	......	......	5	.....	.....	.....
1890	36.0	+ 1.8	76	− 3	1.03	−1.02	......	......	3	.....	.....	.....
1891	39.8	+ 5.6	72	− 1	1.90	−0.15	......	......	6	.....	.....	.....
1892	29.4	− 4.8	75	−22	2.38	+0.33	3.08	4.8	6	8	7	16
1893	35.2	+ 1.0	76	7	0.95	−1.10	2.95	2.7	5	11	11	9
1894	36.7	+ 2.5	75	− 7	2.13	+0.08	3.01	1.3	5	14	8	9
1895	34.3	+ 0.1	69	− 8	6.13	+4.08	6.95	3.4	8	9	8	14
1896	38.6	+ 4.4	79	− 5	0.93	−1.12	2.25	T.	3	13	8	10
1897	29.3	− 4.9	74	−14	2.80	+0.75	2.70	6.3	7	8	8	15
1898	28.7	− 5.5	74	−20	1.69	−0.36	2.50	5.1	5	17	6	8
1899	30.4	− 3.8	72	−13	2.11	+0.06	1.70	6.6	9	12	9	10
1900	35.6	+ 1.4	68	− 3	0.69	−1.36	1.08	0.6	4	14	8	9
1901	28.5	− 5.7	71	−29	2.93	+0.88	4.43	6.9	8	11	7	13
1902	30.7	− 3.5	68	− 7	2.91	+0.06	2.50	3.1	8	10	4	7
1903	30.2	− 4.0	65	11	1.51	−0.54	1.80	2.3	5	16	7	8
1904	32.9	− 1.3	75	−10	1.50	−0.55	1.55	6.0	5	15	7	8
1905	33.3	− 0.9	66	− 2	1.45	−0.60	2.24	1.7	4	18	6	7
1906	36.1	+ 1.9	73	0	2.27	+0.22	2.85	0.6	8	8	6	17
1907	37.7	+ 3.5	76	3	1.84	−0.21	1.78	3.7	7	11	7	13
1908	38.4	+ 4.2	80	− 4	0.85	−1.20	1.35	T.	3	16	7	8
1909	24.9	− 9.3	76	−17	2.86	+0.81	2.50	7.7	8	12	6	13
1910	31.2	− 3.0	67	− 5	1.25	−0.80	2.85	2.4	4	16	5	10
1911	36.7	+ 2.5	74	−11	2.80	+0.70	2.00	5.1	7	13	6	11
1912	36.5	+ 2.3	72	2	0.59	−1.46	0.91	0.6	3	19	5	7
1913	38.3	+ 4.9	74	− 3	2.27	+0.19	2.25	6.6	7	9	4	18
1914	26.8	− 7.1	68	−18	2.48	+0.31	2.30	6.6	9	7	5	19
1915	34.7	+ 1.3	84	−13	2.77	+0.55	3.20	7.8	6	12	6	13
1916	31.3	− 2.3	82	−29	1.85	−0.29	3.40	4.4	6	15	6	20
1917	25.5	− 8.7	82	−23	0.74	−1.40	2.51	7.3	5	11	7	13
1918	40.0	+ 6.6	83	−12	3.21	+1.14	5.50	7.8	7	13	6	12
1919	28.5	− 4.5	74	−22	0.69	−1.50	2.65	0.7	3	12	4	15

SUPPLEMENTAL TABLE OF DATA.

Stations.	Length of record, years.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	No. of days. With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Arlington	15	......	......	......	......	.....	.....	.....	.....	......	Wm. R. Bennett.
Boonville	41	0.65	−1.32	0.30	0	6	13	1	17	sw.	C. Randecker.
C. Girardeau	11	1.67	−1.70	0.62	0	7	17	1	13	n.	D. L. Albert.
Glencoe	1	0.90	......	0.60	......	2	12	5	14	......	L. M. Beard.
Hermann	44	0.76	−1.08	0.65	T.	2	13	1	17	w.	W. E. Crawford.
New Madrid	24	3.25	−1.07	1.80	0	8	12	2	17	sw.	Miss Josie Smith.
Osceola	18	0.49	−2.06	0.37	......	3	.....	.....	.....	......	Wm. E. Mathews.
Pacific	1	0.93	......	0.53	T.	3	21	0	10	w.	Mark Waters.
Steelville	16	0.66	−1.30	0.32	0.5	3	15	0	16	w.	A. Kreamelmeyer
Tuscumbia	1	0.95	......	0.54	T.	3	11	1	19	sw.	C. B. Wright.
Union	1	0.87	......	0.46	0.2	5	8	8	15	nw.	J. Wm. Keller.
Valley Park	1	......	......	......	......	.....	.....	.....	.....	......	T. W. McNeese.
Waverly	3	0.33	......	0.21	1.2	3	12	3	16	s.	J. W. Cauthorn.

Climatological Data for December, 1919.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipitation 0.01 or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	39	25.1	−5.5	58	30	−9	10	46	0.29	−1.42	0.12	1.4	4	13	0	18	nw.	O.K. Benecke.
Clifton Hill	Randolph	731	20	25.4	−5.3	50	18†	−6	10	31	0.30	−1.29	0.20	0.2	3	11	4	16	......	L. S. Harlan.
Columbia	Boone	784	30	27.0	−5.9	59	30	−4	10	45	0.55	−1.46	0.42	0.8	5	8	7	16	sw.	U. S. Weather Bureau.
Fayette	Howard	725	36	.....	......	.....	.....	.....	.....	.....	.....	......	.....	.....	.....	.....	.....	.....	.....	Prof. D. R. Briggs.
Fulton	Callaway	818	28	28.9	−4.8	59	30	−3	10†	53	0.71	−1.29	0.56	0.5	2	12	5	14	n.	Prof. Claude A. Jones.
Gorin	Scotland	700	32	.....	......	.....	.....	.....	.....	.....	0.18	−1.67	0.13	0.5	2	4	8	19	nw.	J. W. Pulliam.
Hannibal	Marion	534	27	25.0	−6.3	54	30	−6	10	41	0.36	−1.29	0.24	0.9	7	6	11	14	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	31	27.8	−5.1	59	30	−1	10	47	0.68	−1.22	0.58	0.2	2	13	2	16	w.	Miss Emma Swift.
Kirksville	Adair	969	38	22.2	−7.2	48	29†	−12	10	34	0.18	−1.54	0.15	0.5	2	14	5	12	n.	Prof. Mark Burrows.
Louisiana	Pike	469	39	27.6	−3.4	52	31	−5	10	34	0.56	−1.16	0.40	2.0	5	11	10	10	w.	J. T. Farrell.
Macon	Macon	875	26	22.6	−7.9	50	30	−11	10	52	0.21	−1.29	0.13	1.8	3	7	10	14	ne.	W. C. Brown.
Mexico	Audrain	797	41	25.6	−6.6	55	30	−5	10	45	0.83	−1.28	0.36	3.0	6	18	1	12	w.	Mrs. Abbie Snoddy.
Oakfield ‡‡	Franklin	793	34	30.0	−4.4	62	30	−3	10	36	0.91	−1.19	0.78	1.0	3	8	9	14	s.	E. E. Steines.
Palmyra	Marion	652	20	23.1	−7.1	50	30	−9	10	48	0.24	−1.68	0.10	1.1	4	9[a]	4[a]	17[a]	sw.	W. B. Markell.
St. Catherine	Linn	850	8	23.1	......	53	30	−11	10	32	0.16	......	0.12	0.5	3	11	7	13	w.	L. D. Baker.
St. Charles	St. Charles	456	41	30.0	−5.0	70	30	−2	10	45	0.72	−1.20	0.72	0.2	1	10	4	17	nw.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	46	29.6	−5.9	56	12	1	10	36	1.22	−1.01	1.18	0.3	4	10	5	16	nw.	U. S. Weather Bureau.
St. Louis (2)	do.	578	7	29.1	−5.6	55	12	1	10	32	1.19	−0.91	1.17	2.3	4	7	5	19	nw.	St. Louis University.
Shelbina	Shelby	779	26	.....	......	.....	.....	.....	.....	.....	.....	......	.....	.....	.....	.....	.....	.....	.....	S. G. Parsons.
Steffenville	Lewis	650	26	[a]23.8	−6.6	56	30	−9	2†	43	0.39	−1.30	0.27	1.0	3	9[a]	9[a]	12[a]	sw.	Frank Hall.
Unionville	Putnam	1,072	26	20.5	−6.9	52	30	−14	10	33	1.30	−0.39	0.80	1.5	5	16	3	12	n.	Geo. W. Davis.
Warrenton	Warren	865	29	25.5	−6.6	58	30	−3	10	49	0.79	−1.38	0.62	0.5	3	7	8	16	nw.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	47	22.3	−7.1	50	30	−8	20	40	0.18	−1.48	0.14	0.5	5	6	7	18	sw.	U. S. Weather Bureau.
Section means and	extremes	....	....	25.7	−6.0	70	30	−14	10	53	0.57	−1.27	1.18	1.0	4	10	6	15	nw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	28	38.8	−1.2	70	31	12	10†	37	4.30	−0.08	2.65	T.	7	15	1	15	se.	H. E. Averill.
Doniphan	Ripley	344	15	35.2	−2.2	63	6	6	10	33	0.27	−3.15	0.25	0	2	18	4	9	s.	W. W. Martin.
Jackson	Cape Girardeau	458	29	33.6	−3.0	65	31	5	10	36	0.87	−2.38	0.38	0.3	4	13	5	13	s.	L. M. Bean.
Marble Hill	Bollinger	420	27	38.2	+2.2	70	7†	4	10	54	0.75	−2.62	0.34	0	3	15	5	11	n.	F. W. Wells.
Patton (near)	Bollinger	500	9	.....	......	.....	.....	.....	.....	.....	0.70	......	.....	.....	.....	.....	.....	.....	.....	George F. Ellis.
Poplar Bluff	Butler	339	15	34.6	−2.4	69	31	6	10	37	1.19	−3.17	0.28	T.	7	12	6	13	......	Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill	359	44	34.0	−4.5	63	31	8	10	31	2.16	−1.17	1.19	T.	9	11	4	16	n.	U. S. Weather Bureau.
Section means and	extremes	....	....	35.7	−1.8	70	7†	4	10	54	1.46	−2.10	2.65	T.	5	14	4	13	s.	
Ozark Plateau.																				
Arcadia	Iron	925	41	31.3	−3.0	63	30	1	10	43	0.50	−2.54	0.43	0.1	5	14[a]	4[a]	12[a]	nw.	Arcadia College.
Aurora	Lawrence	1,370	....	[e]35.0	−0.1	70	30	1	10	40	0.38	−2.26	0.24	0	3	13	5	13	sw.	C. D. Sprague.
Birchtree	Shannon	1,078	25	34.2	−1.6	63	30†	1	10	36	0.40	−2.25	0.15	0	3	12	8	11	nw.	K. H. Kirkendall.
Bolivar	Polk	1,071	32	33.1	−2.6	65	30	−2	10	39	0.67	−1.81	0.49	T.	5	12	4	15	sw.	V. H. Brown.
Cassville	Barry	1,475	20	.....	......	.....	.....	.....	.....	.....	.....	......	.....	.....	.....	.....	.....	.....	.....	R. H. Wallen.
Dean ‡‡	McDonald	1,000	20	35.2	−2.2	72	30	1	14	49	0.69	−1.45	0.34	0	3	19	0	12	......	H. E. Dean.
Eldon	Miller	934	20	28.6	−5.8	62	30	−6	10	46	0.35	−1.99	0.14	T.	3	13	4	14	nw.	E. H. Shepherd.
Farmington	St Francois	918	22	32.2	−5.4	59	30	0	10	38	0.46	−2.34	0.35	0.2	5	11	8	12	nw.	Robert Forsyth.
Gano ‡‡	Dent	1,250	18	32.2	−3.0	62	30	−4	10	45	0.39	−1.67	0.16	0.8	4	11	6	14	sw.	A. C. Leach.
Goodland	Iron	1,000	26	32.4	−2.0	62	30†	0	10	47	0.97	−1.56	0.97	0	1	14	4	13	n.	F. M. Adams.
Hollister	Taney	735	15	38.1	−1.5	74	30†	4	10	49	0.90	−1.45	0.70	0	2	20	0	11	nw.	W. P. Chapmann.
Houston	Texas	1,280	26	35.4	−0.5	65	30	1	10	47	0.35	−1.94	0.20	T.	2	11	7	13	nw.	R. F. Harmon.
Koshkonong	Oregon	958	18	36.6	−0.9	66	30	4	10	36	0.54	−2.78	0.20	T.	4	13	2	16	ne.	R. M. Hitt.
Lebanon	Laclede	1,265	33	31.4	−3.6	65	30	−3	10†	54	1.97	−0.67	1.53	T.	4	16	9	6	n.	Leonard E. Dickerson.
Lockwood	Dade	1,078	23	33.4	−2.1	68	30	−1	10	35	0.80	−1.19	0.50	T.	4	11	3	17	sw.	C. S. Crow.
Mountain Grove	Wright	1,490	21	32.0	−2.2	61	30	−1	10	46	0.47	−1.84	0.21	0	3	14	7	10	sw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	36	35.8	−0.8	71	30	2	10	44	0.47	−2.14	0.30	T.	3	14	9	8	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,139	35	43.4	+0.1	64	30	−2	10	34	0.67	−1.44	0.38	2.0	3	17	3	10	n.	Prof. Elmo G. Harris.
Springfield	Greene	1,350	31	32.6	−2.9	66	30	0	10	47	0.44	−2.23	0.20	0.3	6	15	5	11	nw.	U. S. Weather Bureau.
Section means and	extremes	....	....	33.5	−2.2	74	30†	−6	10	54	0.63	−1.86	1.53	0.2	4	14	5	12	nw.	
Southwest Plain.																				
Amoret	Bates	831	12	27.2	−5.5	63	29	−8	10	38	0.23	−1.54	0.16	T	2	9	10	12	n.	Darby Fruit Farm.
Appleton City	St. Clair	853	27	[b]30.0	−4.4	64	30	−3	10	36	0.33	−1.39	0.28	0.2	2	12[a]	4[a]	14[a]	sw.	....
Clinton	Henry	765	32	29.8	−4.6	66	30	−2	10	42	0.43	−1.35	0.43	0	1	14	2	15	sw.	A. E. Derwent, M. D.
Harrisonville ††	Cass	912	44	26.0	−5.2	62	30	−8	10	50	0.26	−1.58	0.10	0.2	4	6	8	17	n.	John H. Patterson.
Lamar	Barton	980	38	31.8	−3.5	70	30	−1	10	43	0.90	−1.09	0.46	0	2	8	5	18	s.	Joe W. Springer.
Lamonte	Pettis	863	32	[a]27.8	−6.6	61	30	−5	10	35	0.50	−1.23	0.40	T.	2	12[a]	3[a]	15[a]	sw.	J. Ed. Hall.
Marshall	Saline	779	30	[a]27.2	−4.4	57	30	−5	10	35	1.57	−0.12	1.55	0.2	2	8	4	19	sw.	Dr. W. H. Black.
Nevada	Vernon	860	27	30.6	−3.3	65	30	−1	10	36	1.15	−0.77	1.15	0	1	16	2	13	sw.	George A. Kaupp.
Warrensburg	Johnson	883	42	.....	......	.....	.....	.....	.....	.....	.....	......	.....	.....	.....	.....	.....	.....	.....	Geo. H. Collins.
Warsaw	Benton	715	23	31.6	−3.1	67	30	−2	10	44	0.74	−1.67	0.62	T.	2	10	7	14	nw.	J. R. Smith, M. D.
Section means and	extremes	....	....	29.1	−4.5	70	30	−8	10	50	0.68	−1.19	1.55	0.1	2	11	5	15	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	22	.....	......	.....	.....	.....	.....	.....	.....	......	.....	.....	.....	.....	.....	.....	.....	F. G. Ashbaugh.
Bethany	Harrison	916	28	20.6	−10.3	54	30	−20	10	39	0.15	−1.35	0.10	1.5	2	10	5	16	ne.	M. H. Moulton.
Chillicothe	Livingston	768	11	.....	......	.....	.....	.....	.....	.....	.....	......	.....	.....	.....	.....	.....	.....	.....	R. L. Isherwood.
Conception	Nodaway	982	35	20.4	−9.3	50	30	−18	10	31	0.26	−0.81	0.16	1.0	2	12	5	14	nw.	Fr. Adelhelm Hess.
Edgerton	Platte	856	....	[d]22.8	......	60	30	−12	10	35	0.09	......	0.06	0.2	3	11[d]	0[d]	16[d]	nw.	H. Killingsworth.
Gallatin	Daviess	803	17	.....	......	.....	.....	.....	.....	.....	.....	......	.....	.....	.....	.....	.....	.....	.....	....
Grant City	Worth	1,134	29	[a]20.4	−7.6	53	30	−20	10	35	0.20	−1.05	0.10	2.0	2	14[a]	0[a]	16[a]	nw.	W. H. Campbell.
Kansas City	Jackson	963	30	25.9	−5.6	61	30	−5	10	34	0.16	−1.20	0.11	0.5	5	13	0	18	n.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	31	22.6	−6.9	57	30	−11	10	30	0.12	−1.30	0.10	1.5	2	9	6	16	nw.	J. F. Sharp.
Lexington	Lafayette	688	36	26.0	−5.6	60	30	−7	10	34	0.27	−1.51	0.16	0.5	3	14	1	16	n.	J. W. Keithley.
Liberty	Clay	864	29	25.1	−6.8	61	30	−10	10	34	0.14	−1.35	0.11	0.5	3	13	1	17	nw.	James H. Harris.
Maryville	Nodaway	1,036	26	17.4	−8.9	56	30	−21	10†	53	0.71	−0.45	0.40	6.5	5	11	5	15	n.	J. R. Brink.
Oregon	Holt	1,048	63	20.9	−7.6	53	30	−19	10	32	0.39	−1.12	0.30	3.0	3	12	3	16	nw.	Tom Curry.
St. Joseph	Buchanan	967	45	22.8	−7.1	59	30	−11	10	34	0.22	−0.89	0.12	1.2	4	12	2	17	nw.	U. S. Weather Bureau.
Tarkio	Atchison	976	27	19.3	−5.9	55	30	−22	10	33	0.92	−0.07	0.57	3.0	3	16	1	14	sw.	John F. Frazier.
Trenton	Grundy	822	24	22.4	−7.4	50	30	−12	10	28	0.02	−1.52	0.02	T.	1	13	2	16	n.	W. H. Estes.
Section means and	extremes	....	....	22.0	−6.8	61	30	−22	10	53	0.28	−0.97	0.57	1.7	3	12	3	16	nw.	
State means and	extremes	....	....	28.5	−4.5	74	30†	−22	10	54	0.69	−1.50	2.65	0.7	3	12	4	15	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b] represents two days, etc.

† Also on other dates. †† Received too late to be included in means and summaries. ‡‡ Post-office addresses of these stations are as follows: of Oakfield, Pacific, R. F. D. No. 1; of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for December, 1919.

Stations.	Watersheds.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville ‖	Missouri		.04			T.	.30	.12		.05	.02																		.12				0.65
Brunswick ‖	Grand	.02					.12			.10													T.						.05				0.29
Clifton Hill	Chariton						.20															T.	T.	T.	.05				.05				0.30
Columbia***	Missouri		T.	T.	T.	.23	.19		T.	.04			T.															.07	.02				0.55
Fayette	do		T.		T.	T.	.37			.05												T.		T.				T.	.06	.03			0.51
Fulton	do				T		.56			T.																		.15					0.71
Glencoe ‖	Meramec						.60	.30																					T.				0.90
Gorin	Mississippi					.13				.05																							0.18
Hannibal***	do		.02		.01	.08	.17		.02	.02												T.	T.	T.				.04					0.36
Hermann ‖	Missouri						.65	.11		T.																			T.	T.			0.76
Jefferson City ‖	do					T.	.58	.10		T.																			T.				0.68
Kirksville	Mississippi	T.				T.	T.	T.		.15			T.															.03	T.				0.18
Louisiana	do				.02		.40			.02														T.				.02	.10				0.56
Macon	Chariton						.13			.05																			.03				0.21
Mexico ‖	Mississippi			.01			.36	.26		T.	.05																	T.	.10	.05			0.83
Oakfield	Meramec		T.		T.	.05	.78			T.														T.				T.	.08				0.91
Pacific ‖	do						.53	.35		T.															T.				.05				0.93
Palmyra ‖	Mississippi					.03	.10	T.		.07													T.	T.				.04					0.24
St. Catherine	Grand	T.			T.		.12			.02																		T.	T.	.02			0.16
St. Charles	Missouri				T.		.72			T.															T.				T.				0.72
St. Louis (1)***	Mississippi		T.		T.	.50	.68		T.	T.														T.	T.			.03	.01				1.22
St. Louis (2)	do		T.		T.	.61	.56			T.			T.									T.		T.	.01			T.	.01				1.19
Shelbina	do																																
Steffenville	do	T.				.27	.05		T.	.07																		T.					0.39
Union ‖	Meramec					.02	.46	.30		.01																			.08				0.87
Unionville	Chariton	.15			.80	T.	.17			.12				T.															T.	.06			1.30
Valley Park ‖	Meramec																																
Warrenton ‖	Mississippi					T.	.62	.11		T.															T.				.06	T.			0.79
Keokuk, Iowa***	do	.01			T.	.07	.07		.02	.01			T.						T.										T.				0.18
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi					.10	.42	.62		.02	.05		T.	.40															.06				1.67
Caruthersville	do				.17	.10	.55	.05	T.	.28			.50	2.65																			4.30
Doniphan	Black						.25		T.				.02	T.																			0.27
Jackson	Mississippi				.05	.18	.38																					.26					0.87
Marble Hill	do				.26		.34							.15																			0.75
New Madrid ‖	do					.23	.18	.28		.45	.28		.02	1.80	T.														.01				3.25
Patton (near)	do																																0.00
Poplar Bluff ‖	Black				.19	.05	.27	.12	T.	.05			.28	.23									T.					T.	T.				1.19
Cairo, Ill.***	Mississippi		.01	T.	.07	.15	.29		.19	.19			.74	.45										T.	T.			.07	T.				2.16
Ozark Plateau.																																	
Arcadia ‖	St. Francis					.02	.43	.02		T.				T.											T.				.02	.01			0.50
Arlington ‖	Gasconade																																
Aurora	White		T.	T.	.10	.04	.24			T.																			T.				0.38
Birchtree	Black				.10	.15	.15																										0.40
Bolivar	Osage		T.		.08	.03	.49			T.														.04					.03				0.67
Cassville	White																																
Dean	Neosho				.34	.07	.28																										0.69
Eldon	Osage					.14	.13																					.08	T.				0.35
Farmington	St. Francis		T.		.01	.02	.35		T.																T.			.03	.05				0.46
Gano	Meramec				.05	.06	.16			T.															T.			T.	.12				0.39
Goodland	Black						.97																										0.97
Hollister	White					.20		.70																									0.90
Houston	Gasconade					.20	.15			T.															T.				T.				0.35
Koshkonong	Black				.13	.20	.18			T.			T.	.03																			0.54
Lebanon ‖	Osage			T.		.10	1.53	.20																	T.				.14				1.97
Lockwood	do				.10	.15	.50			.05																							0.80
Mountain Grove ‖	White					.21	.08	.18																					T.				0.47
Neosho	Neosho		T.		.11	.06	.30			T																							0.47
Rolla	Meramec	T.	T.		.10	T.	.38																					T.	.19				0.67
Springfield***	White		T.	T.	.15	.06	.17		T.	.02										T.		.02							.02				0.44
Steelville ‖	Meramec						.30																						.32	.04			0.66
Tuscumbia ‖	Osage			T.			.54	.26		T.															T.				.15				0.95
Southwest Plain.																																	
Amoret	Osage				.07		.16			T.																							0.23
Appleton City	do			T.		T.	.28	T.		T.													T.	T.	T.				.05				0.33
Clinton	do						.43																										0.43
Harrisonville ‖	do		T.				.09	.10		.02																			.05				0.26
Lamar	Neosho						.44	.46																					T.				0.90
Lamonte	Missouri		T.		T.	T.	.40			T.			T.															T.	.10				0.50
Marshall	do		T.		T.	T.	1.55			T.			T.									T.	T.	T.				T.	.02				1.57
Nevada	Osage				T.	T.	1.15																										1.15
Osceola ‖	do						.37	.09																					.03				0.49
Warrensburg	Missouri																																
Warsaw ‖	Osage		T.	T.	T.	T.	.62		T.	T.	T.																	T.	.12				0.74
Waverly ‖	Missouri		T.		T.	T.	.21			.06														T.					.06				0.33
Northwest Plateau.																																	
Avalon	Grand								.75				T.								T.		.30					.25					1.30
Bethany	do	T.						.05	.10																			T.	T.				0.15
Chillicothe ‖	do																																
Conception	Missouri					T.	T.		.10																			.16				T.	0.26
Edgerton	do						.01		.06	.02			T.																				0.09
Gallatin	Grand																																
Grant City	do	T.			T.	T.		T.		T.	.10	T.									T.								.10				0.20
Kansas City***	Missouri	T.	T.	T.	T.	.05	.06		.03	.01			T.								T.	T.		T.				T.	.01			T.	0.16
Kidder ‖	Grand						.10																						T.	.02			0.12
Lexington ‖	Missouri						.06	.16																					.05				0.27
Liberty	do					T.			T.	.02																		.01	.11				0.14
Maryville ‖	do						T.	.10	.40					.10							T.	.10	T.						.01				0.71
Oregon	do	T.	T.				.05			.30			T.																.04				0.39
St. Joseph***	do	T.			T.	T.	T.		.02	.10			T.							T.					T.			.06	.04			T.	0.22
Tarkio	do				T.	T.	.05		.30																			.57					0.92
Trenton	Grand	T.				T.			T.	T.			T.															T.	.02				0.02

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. **Precipitation in the next following measurement. ‡ Separate dates of fall not recorded

Daily Temperatures for December, 1919.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	34	12	21	33	33	33	35	18	2	27	43	43	18	30	38	42	31	45	28	42	30	34	34	33	33	45	40	33	51	58	35	33.4
	Minimum	20	11	9	10	21	24	19	15	2	−9	−3	27	1	2	9	15	12	14	21	21	24	21	31	30	17	26	25	26	24	28	29	16.8
Columbia	Maximum	42	21	22	34	32	35	37	27	18	16	49	52	14	28	39	48	32	50	27	40	27	36	36	31	34	44	37	31	50	59	45	35.3
	Minimum	21	14	12	22	24	29	25	18	−1	−4	16	7	4	4	13	22	15	17	20	24	24	26	31	20	18	30	28	26	26	30	15	18.6
Hannibal	Maximum	34	20	25	34	31	34	33	24	14	14	43	50	12	28	25	45	23	34	26	36	28	35	35	31	34	44	38	31	50	54	41	32.5
	Minimum	20	11	2	24	21	28	23	14	−3	−6	14	9	4	3	13	13	14	17	16	24	23	25	31	19	13	32	28	28	27	32	13	17.4
Jefferson City §§	Maximum	46	19	27	34	37	39	38	28	11	21	49	55	14	29	39	50	38	52	27	40	31	37	37	32	38	43	42	31	52	59	40	36.6
	Minimum	18	16	15	17	25	26	25	24	10	−1	2	20	5	4	6	16	18	18	20	20	22	26	30	30	17	25	27	25	26	29	32	19.1
Kirksville	Maximum	22	19	21	30	30	30	32	26	12	12	37	40	11	26	22	30	36	30	26	37	32	31	31	31	30	42	40	35	48	48	48	30.8
	Minimum	13	6	−2	14	16	24	17	6	−2	−12	6	11	−2	−2	7	6	7	14	15	21	22	24	30	21	12	29	26	24	23	27	20	15.6
Louisiana	Maximum	36	36	35	33	33	34	33	35	30	29	40	40	26	32	32	40	44	38	38	30	38	34	36	34	35	36	46	38	51	50	52	36.9
	Minimum	18	15	8	15	22	30	24	23	8	−5	14	20	6	3	12	14	15	14	16	25	15	25	30	28	14	16	28	27	27	32	28	18.3
Macon §§	Maximum	30	20	25	32	32	33	32	16	13	17	43	44	12	27	31	45	26	44	26	39	28	33	33	31	33	43	31	30	49	50	31	31.6
	Minimum	14	9	3	4	17	21	20	12	−2	−11	−9	16	−1	0	6	11	9	12	14	18	22	23	27	29	13	19	24	20	23	28	28	13.5
Mexico §§	Maximum	38	18	28	36	37	33	36	22	12	18	41	53	22	43	45	47	47	44	22	39	28	34	34	30	35	46	37	30	49	55	39	35.4
	Minimum	15	12	8	11	21	23	21	19	7	−5	−4	17	3	3	6	17	12	13	15	17	20	23	27	28	13	21	26	25	23	27	29	15.9
Oakfield	Maximum	44	37	23	34	35	41	39	33	28	20	48	57	36	29	42	51	43	48	38	42	34	31	36	36	40	41	42	34	54	62	53	39.7
	Minimum	24	18	14	21	25	29	26	23	9	−3	12	34	6	2	16	23	17	17	17	19	19	24	26	23	16	30	27	25	25	31	32	20.2
St. Catharine	Maximum	24	20	29	31	31	31	33	27	16	13	37	40	14	25	28	40	37	39	35	33	33	32	33	32	32	44	42	36	47	53	47	32.7
	Minimum	12	7	−2	17	14	27	16	7	−2	−11	12	12	−2	−3	7	8	7	12	17	20	22	18	25	22	16	29	22	23	19	26	21	13.5
St. Louis (1)	Maximum	47	34	25	37	37	45	36	32	24	18	46	56	20	26	39	49	39	41	29	39	33	32	38	33	39	42	42	33	53	53	50	37.6
	Minimum	28	18	14	24	28	32	28	24	6	1	14	20	9	5	20	25	18	21	17	22	21	25	29	25	21	33	31	28	28	37	22	21.7
Unionville	Maximum	20	16	21	32	33	28	29	26	10	8	33	36	16	24	23	36	28	38	28	27	28	30	32	31	30	40	38	36	46	52	46	29.7
	Minimum	12	4	−7	7	12	18	15	8	−5	−14	5	9	−5	−6	2	3	5	8	16	22	20	22	24	15	19	30	26	22	25	22	16	11.3
Warrenton §§	Maximum	38	20	25	33	34	36	34	27	13	20	47	55	16	27	40	49	25	43	26	27	28	31	36	30	38	43	38	30	52	58	40	34.2
	Minimum	17	16	12	13	24	24	23	22	11	−3	−2	15	5	0	4	15	16	16	15	15	22	24	25	29	15	16	26	21	26	28	32	16.8
Southeast Lowlands.																																	
Caruthersville	Maximum	62	52	38	38	45	63	63	41	40	30	53	57	57	30	43	46	53	62	48	44	52	43	37	38	46	40	52	46	54	67	70	48.7
	Minimum	32	30	28	30	31	41	37	35	26	12	20	18	26	30	33	32	21	26	26	28	29	31	24	29	29	36	29	33	45	33	45	28.9
Doniphan	Maximum	55	43	38	36	39	63	60	38	36	24	45	48	47	29	40	47	47	57	49	40	46	39	41	38	40	45	47	45	53	59	60	45.
	Minimum	31	27	26	28	33	36	32	30	18	6	12	34	17	7	15	18	21	33	30	20	18	30	31	32	20	26	23	32	26	29	44	25.
Jackson	Maximum	55	50	32	32	41	60	61	42	40	30	46	52	50	30	40	46	40	55	45	43	45	36	35	37	40	45	45	41	50	58	65	44.
	Minimum	29	24	22	25	26	36	33	28	17	5	11	36	15	7	12	19	21	19	21	17	17	26	27	24	15	26	20	31	26	26	33	22.
Marble Hill	Maximum	58	55	53	48	46	67	70	70	56	53	52	54	52	44	45	53	54	56	56	54	54	65	65	63	61	61	53	53	60	46	65	56.
	Minimum	29	23	22	27	32	35	32	27	18	4	10	33	15	5	15	22	21	19	22	7	9	11	27	24	11	15	24	22	20	24	16	20.
Poplar Bluff	Maximum	58	41	30	33	38	62	60	39	36	26	42	51	48	30	41	48	47	59	46	42	52	37	39	42	45	45	46	45	53	64	69	45.
	Minimum	27	26	25	28	32	36	32	29	11	6	12	18	18	8	16	23	25	22	28	19	20	29	31	20	20	27	24	33	25	28	34	23.
Ozark Plateau.																																	
Arcadia §§	Maximum	55	28	27	36	41	58	45	31	27	24	45	53	18	32	47	51	41	57	30	44	46	44	48	53	41	44	47	32	54	63	61	42.
	Minimum	25	26	19	20	26	31	30	25	25	1	2	14	10	4	4	20	29	23	21	15	15	18	26	28	13	14	26	28	24	25	29	19.
Aurora	Maximum	59	39	....	....	....	....	....	38	38	26	55	57	21	30	42	48	54	57	46	47	38	43	56	46	38	47	44	43	60	70	59	46.
	Minimum	33	18	18	13	32	38	27	25	8	1	16	20	7	4	21	27	32	38	22	21	33	34	36	22	25	21	29	24	29	30	29	23.
Birchtree	Maximum	57	48	29	32	36	60	48	36	32	26	45	52	46	31	45	48	54	61	53	46	40	43	45	39	38	41	46	43	60	13	63	45.
	Minimum	30	21	20	34	31	34	29	25	12	1	12	31	10	2	12	20	29	27	23	15	20	27	29	29	20	28	23	30	25	29	41	22.
Eldon	Maximum	56	33	24	35	33	41	42	35	28	24	52	56	17	30	44	51	46	57	43	45	33	41	37	32	35	44	40	37	55	62	49	40.
	Minimum	22	12	12	20	24	25	21	20	1	6	13	10	1	0	12	21	12	18	12	13	20	24	29	24	20	29	23	23	23	23	17	16.
Farmington	Maximum	57	47	24	35	38	52	45	35	29	24	42	50	47	30	47	48	44	54	48	40	36	48	36	36	39	39	40	40	49	59	54	42.
	Minimum	24	20	18	23	30	36	29	24	13	0	13	38	9	2	11	25	24	22	19	19	20	24	24	25	17	29	27	29	25	35	39	22.
Gano	Maximum	52	48	24	32	37	58	41	33	27	23	45	57	50	26	41	51	49	58	51	42	39	45	52	39	38	38	45	34	55	62	55	43
	Minimum	26	16	15	21	27	32	25	26	8	4	12	31	5	1	16	20	25	32	18	16	20	26	26	25	18	28	25	23	24	30	37	20
Hollister	Maximum	60	58	30	36	42	65	50	41	58	29	60	62	50	41	48	55	60	62	60	63	63	55	52	50	40	40	48	40	38	74	74	51
	Minimum	30	28	22	29	35	40	30	22	10	4	14	23	10	5	12	39	20	33	28	16	25	36	27	31	30	20	28	30	23	25	26	24
Koshkonong	Maximum	57	47	29	33	38	64	54	42	36	33	47	50	49	31	45	48	57	65	54	45	37	39	40	40	40	45	49	47	64	66	65	47
	Minimum	30	24	22	27	33	37	32	27	20	4	11	32	14	5	18	26	33	34	27	19	24	31	33	30	22	27	27	35	28	33	43	26
Lebanon §§	Maximum	55	36	29	35	58	56	57	28	23	26	51	55	22	81	42	49	54	51	42	32	36	36	34	38	38	39	45	34	58	65	50	42
	Minimum	28	19	10	18	27	29	24	22	21	3	3	18	4	2	17	18	24	24	21	21	21	26	27	28	24	26	26	26	26	27	31	20
Mountain Grove §§	Maximum	53	24	27	33	42	53	46	39	27	28	46	56	12	30	44	46	53	60	26	45	50	37	36	50	51	51	43	37	59	61	56	42
	Minimum	23	22	17	19	26	30	25	28	27	1	0	15	7	3	04	24	28	32	22	17	16	26	29	26	28	30	39	28	24	27	31	21
Neosho	Maximum	59	54	27	38	42	59	45	46	40	30	55	57	23	31	44	51	57	57	53	48	41	48	56	48	48	43	48	46	62	71	65	48
	Minimum	30	18	18	26	33	37	27	25	8	2	19	22	6	3	15	24	24	30	32	31	27	30	29	32	24	32	24	36	24	27	31	2
Rolla §§	Maximum	40	34	24	34	45	54	46	38	28	27	51	56	36	31	44	51	51	59	53	48	31	48	45	35	43	40	45	39	45	64	61	4
	Minimum	34	18	17	22	30	40	36	21	9	2	22	32	6	1	18	24	25	25	20	25	19	28	30	29	21	32	27	24	25	32	39	2
Springfield	Maximum	57	33	27	34	42	59	42	34	31	25	52	57	16	29	40	47	53	57	32	44	35	41	54	32	33	39	43	37	60	66	53	4
	Minimum	33	17	17	26	32	28	26	25	1	0	16	10	5	4	20	30	33	32	20	21	31	31	29	27	25	30	29	32	29	33	21	2
Southwest Plain.																																	
Amoret	Maximum	47	22	20	32	30	35	38	26	20	22	45	44	14	35	45	50	54	55	37	40	30	35	32	31	28	48	44	42	63	48	38	3
	Minimum	22	9	12	18	25	28	15	18	0	−8	18	8	−1	−1	10	20	16	24	18	12	21	28	30	28	25	28	26	28	28	24	9	1
Clinton	Maximum	53	28	24	34	34	37	40	36	31	25	51	41	17	34	45	50	50	52	39	45	32	37	37	34	32	40	38	38	58	66	52	3
	Minimum	11	13	15	22	26	31	21	21	5	−2	21	7	7	3	15	20	20	25	20	16	21	26	32	29	26	30	26	30	26	28	27	1
Harrisonville §§	Maximum	34	14	25	32	32	33	37	19	10	20	45	41	20	34	45	50	46	55	26	39	31	34	34	31	33	47	39	34	54	62	34	3
	Minimum	15	10	10	14	23	23	17	18	2	−8	−5	18	0	−1	13	15	17	17	18	17	16	25	29	29	25	27	27	28	26	29	29	1
Lamar §§	Maximum	57	19	34	35	48	47	41	33	14	28	55	54	19	32	43	48	54	50	28	43	35	38	39	32	34	48	44	38	57	70	45	4
	Minimum	33	15	15	25	30	40	21	22	7	−1	19	35	4	2	10	27	22	23	20	16	27	33	33	29	27	31	25	34	24	27	34	2
Lamonte	Maximum	43	29	21	34	33	32	40	30	20	20	50	49	16	31	46	49	45	50	32	42	29	36	36	33	32	....	46	37	56	61	51	3
	Minimum	23	11	13	20	24	29	28	19	4	−5	16	14	0	1	11	19	15	19	16	14	22	22	25	26	24	....	26	27	25	26	25	1
Marshall	Maximum	38	29	20	33	33	35	35	30	19	18	46	36	14	28	38	40	40	50	44	39	....	37	36	32	32	44	42	37	49	57	52	3
	Minimum	21	11	12	20	23	....	23	17	3	−5	14	14	1	1	9	18	13	15	19	18	26	29	32	28	26	30	26	25	25	27	27	1
Warrensburg	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Warsaw	Maximum	56	37	24	36	36	40	42	38	29	25	55	55	20	33	45	52	52	56	48	55	34	45	38	40	34	47	42	40	57	67	55	4
	Minimum	28	15	16	23	27	32	23	21	7	−2	15	20	5	3	15	18	18	21	20	12	12	30	33	30	27	32	25	30	23	23	24	2
Northwest Plateau.																																	
Chillicothe §§	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
Grant City	Maximum	19	12	18	30	32	27	26	22	12	9	31	29	21	21	20	38	34	37	34	31	30	31	33	34	32	41	38	38	45	53	....	
	Minimum	9	3	−5	10	12	22	9	5	−5	−20	4	4	−6	−6	7	3	2	9	4	20	24	26	29	26	25	31	27	24	23	38	....	
Kansas City	Maximum	25	13	22	33	30	32	30	20	7	18	41	37	12	30	39	45	41	49	26	29	30	36	34	33	32	45	41	38	53	61	48	
	Minimum	11	9	8	22	22	25	18	7	−3	−5	18	3	0	3	18	27	15	19	19	21	26	28	32	27	27	32	32	29	33	36	17	
Kidder §§	Maximum	21	12	23	30	31	29	28	14	3	18	35	30	9	26	33	40	28	44	24	26	29	32	33	30	35	41	38	34	48	57	36	
	Minimum	9	7	0	4	12	19	15	9	−4	−11	16	26	4	−2	11	19	9	14	15	19	23	25	28	28	25	25	29	25	25	30	28	
Lexington §§	Maximum	30	15	19	32	30	32	33	16	10	17	41	40	12	30	38	46	33	50	25	37	28	33	33	31	32	45	42	33	52	60	[illegible]	
	Minimum	19	10	10	18	22	28	19	15	1	−7	14	34	0	2	14	22	14	16	18	18	25	27	32	30	25	30	29	28	29	30	31	
Maryville §§	Maximum	12	14	20	29	25	26	23	11	0	18	32	16	7	22	23	39	22	37	23	27	28	31	32	29	36	39	38	35	45	56	28	
	Minimum	1	3	−6	−6	13	14	5	5	−7	−21	−21	12	−7	−11	−11	4	2	3	2	14	18	24	25	26	24	26	25	23	23	27	28	
Oregon	Maximum	17	13	20	32	27	28	27	21	7	13	32	31	8	23	28	38	32	42	36	27	31	33	33	33	34	41	40	38	48	53	45	
	Minimum	6	4	−6	13	15	20	9	3	−9	−19	9	−1	−7	−9	6	12	4	13	13	18	22	25	27	25	25	28	26	25	26	29	14	
St Joseph	Maximum	20	14	19	30	27	29	27	17	4	15	34	34	9	25	31	39	30	42	24	26	29	32	33	33	33	42	39	37	50	59	40	
	Minimum	9	4	1	19	21	23	15	4	−8	−11	13	0	−2	−1	13	17	10	17	18	22	26	28	30	28	28	32	31	28	30	33	14	
Trenton	Maximum	22	16	20	32	31	30	29	24	10	11	34	30	10	24	22	36	31	35	29	32	30	32	33	34	32	39	37	34	44	50	45	
	Minimum	12	6	0	6	17	26	18	8	−2	−12	9	10	−3	−2	9	8	7	9	16	22	24	26	30	26	25	30	29	26	27	30	20	

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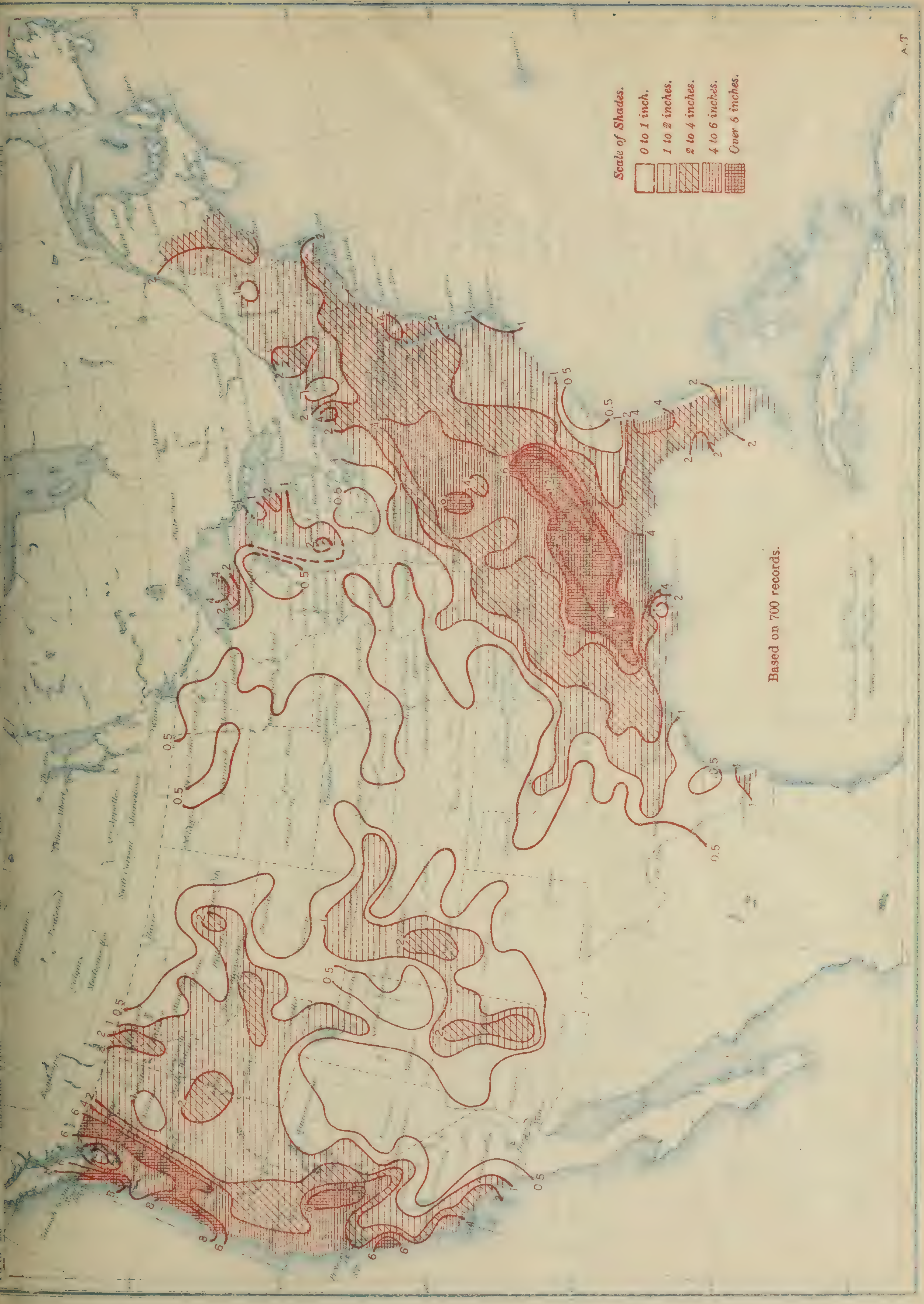
a, b, c, etc., indicate respectively 1, 2, etc., days missing from the record

§§ Instruments are read in the morning: the maximum temperature then read is charge the preceding day, on which it almost always occurs.


Scale of Shades.
0 to 1 inch.
1 to 2 inches.
2 to 4 inches.
4 to 6 inches.
Over 6 inches.
Based on 700 records.
A.T

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CLIMATOLOGICAL DATA

MISSOURI SECTION

IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

ANNUAL, 1919

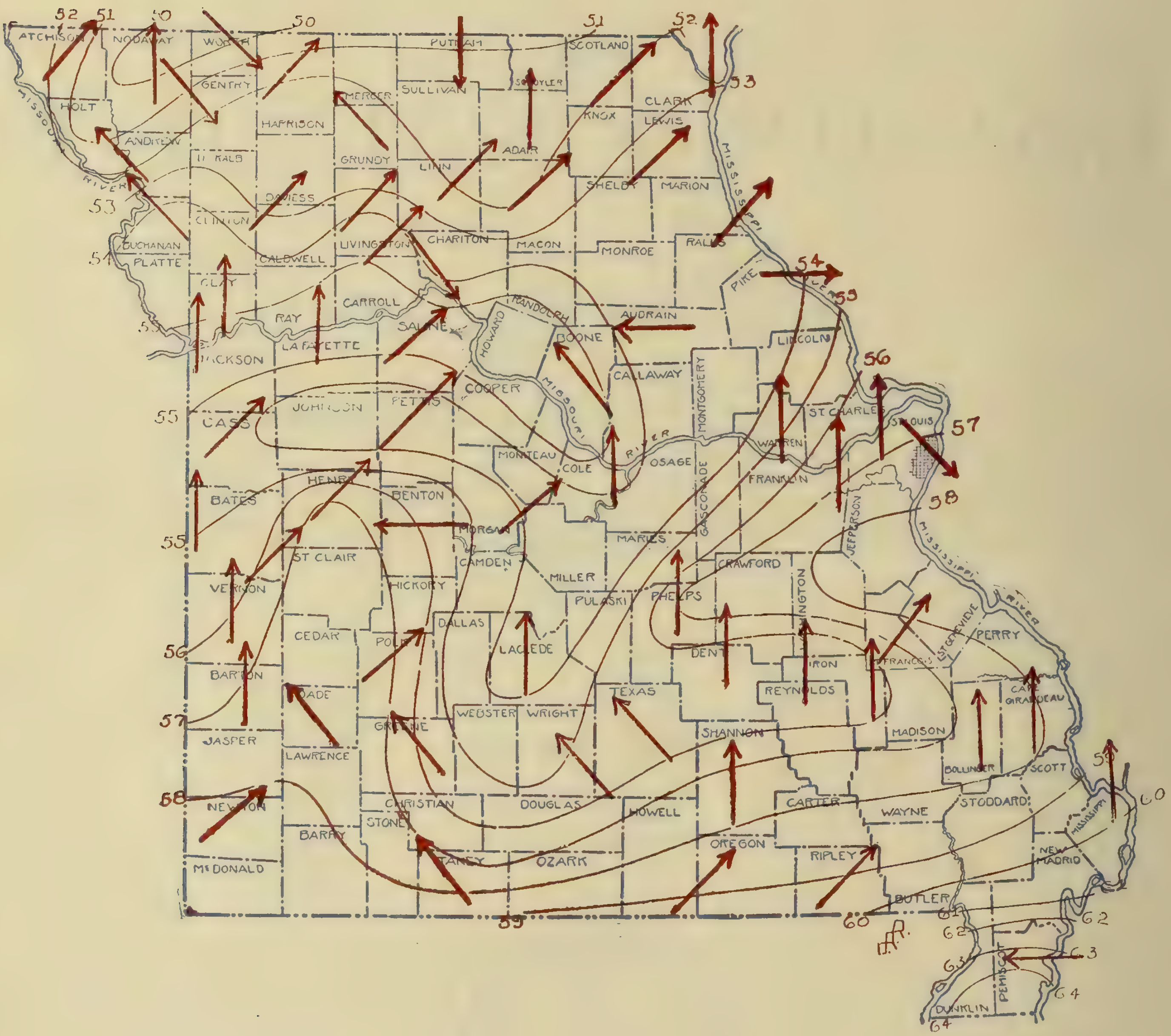
BY

GEORGE REEDER

METEOROLOGIST

COLUMBIA, MO.
WEATHER BUREAU OFFICE
JUNE 17, 1920

MEAN TEMPERATURES AND PREVAILING WINDS FOR YEAR 1919.



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXIII. COLUMBIA, MO., YEAR, 1919. No. 13.

GENERAL SUMMARY.

The year 1919, in Missouri, was not characterized by any marked weather extremes, save relatively dry conditions in July generally, and rather persistent drouth over most of the southern half of the State during August and most of September.

The winter and spring were favorable for outdoor work, so much so that by the end of March all farm work was well ahead of what it usually is at this time of year. Wheat made rank growth during the winter and spring, but the month of May was rather too wet for an exceptional yield.

There were no great river floods, but the Missouri River tributaries were temporarily out of banks in a few places during March, April, June and October, and excessive local rains in Jackson, Johnson, Cass and Pettis counties during the last week of August put the Blackwater River out of banks for a day or two.

There were a few local hailstorms during the spring and early summer months, but there were no severe storms of any kind. An unusually wet October interfered somewhat with autumn plowing and seeding, but, on the other hand, the excess moisture made excellent winter pasturage.

The growing season continued well into the latter part of October for most of the State, and into November for the southern and eastern Ozark slopes. With the last few days of November the winter of 1919-20 set in—somewhat earlier than usual—and quite steady cold continued practically throughout December. A brief synopsis of principal data follows:

TEMPERATURE.

The annual mean for the State was 55.2°, or about 0.8° above normal. The highest temperature was 106°, at Caruthersville on August 6, and the lowest was −23°, at Maryville on January 3. January, February and March were milder than usual, and June, July, September and October were warmer than normal; May was cooler, while August, especially the latter part, was quite pleasant, averaging about normal warmth; the last part of November and all of December was unusually cold.

The prevailing winds and mean temperatures are graphically shown on page 98.

PRECIPITATION.

The annual precipitation for the State was 40.05 inches, or about 0.83 inch greater than the average. The greatest monthly amount was 14.87 inches, in October at Rolla; eight stations during January received no appreciable precipitation. The first three months of the year were drier than the average, January being the driest of its name since 1866. May was the first month to give surplus moisture; June, the last half of August, October and November were wetter than normal; July and the first ten days of August were drier than usual; September exceeded its normal by about one-half inch; December was exceptionally dry.

The seasonal snowfall ranged from about 2 inches in the southeastern lowlands to 16 inches in the northwestern plateau; the heaviest snows fell in February.

The total precipitation (rainfall and melted snow) for the year is graphically shown on page 107.

THE WEATHER BY MONTHS.

January.—The first week was moist and very cold, but after about the 10th the weather was generally favorable for outdoor pursuits, and remarkably pleasant from the side of personal comfort. The soil was in excellent condition, and considerable plowing was done during the latter part of the month. The wheat crop was rated good to excellent. Livestock was in fine winter condition, the well-grown wheat and rye fields affording good pasturage. All public roads were in good condition and traffic was heavy.

February.—Except somewhat cold, snowy and blustery weather on the 8th, 9th and 28th, the month was mild and favorable for outdoor work most of the time. There were no severe temperature changes, and the moisture and sunshine were sufficient for needs. Considerable plowing was done. The wheat crop was in fine condition and livestock was in good shape.

March.—The first day was the coldest, with zero temperature at a few stations, but the month was, as a rule, mild in all sections of the State, and favorable for outdoor pursuits. The month was unusually free from that blustery weather commonly associated with March, though there were a few local storms. There was some local flood damage in the lowlands of the Grand, Platte and Nodaway rivers, caused principally by waters coming from the upper watersheds. The wheat crop was in excellent condition. Oats sowing was nearly completed. The fruit outlook was fair.

April.—There were no unusual features, the meteorological elements differing but little from their normal values. There was some local wind damage in Butler County on the 23d, and local hailstorms caused some damage in Buchanan, Boone and Butler counties, widely separated points, on the 21st, 23d and 29th. The northern tributaries of the Missouri River overflowed some of the lower lands. Freezing or near freezing temperatures were general on the morning of the 26th, but damage was confined to localities in the northeast plain, and in the valleys and other low places in the Ozark Plateau. Farm work was delayed in the northwest plateau by wet soil, but elsewhere farm conditions were generally satisfactory.

May.—This was the first month of the year to supply surplus moisture to the soil, and also the first with temperature less than normal. As a whole the month was cool, cloudy and wet, though there were only a few days on which the sun did not shine. There were a few local storms, the damage being confined to small areas. Farm work was delayed during the latter part of the month, when rain fell almost daily. There was rather too much rain for wheat; the first hay crop also was damaged. About one-half the number of stations had rain on 15 days, and a few as many as 20 days.

June.—This month, as a whole, was uniformly warmer than normal. In some respects it was a rainy month; it was excessively wet in some localities, moderately so in others, and relatively dry in a few. Most of the Missouri River tributaries were out of banks during the first 10 days, but the Missouri itself remained within banks. A few local wind and hailstorms occurred. There was rather too much rain, as a rule, for best wheat yields, and some corn in the bottoms was abandoned because of rank weed growth. Pastures and meadows were highly satisfactory.

July.—The weather was characterized by a large amount of sunshine, insufficient moisture over the eastern and southern sections, and a general excess in temperature, though the last element was not markedly unusual. The general conditions were largely a repetition of those that prevailed during the three past Julys. There were a few hail and windstorms, but the resulting damage was confined to small areas. July is the critical month for the corn crop. For best results it should have frequent and well distributed rains. At the close of the month much upland corn was suffering, and a small per cent in the eastern and southern sections was nearly a failure. Harvesting, threshing and haying made good progress. Pastures in many districts were brown and scanty. A few stockmen had to feed, but as a rule livestock did very well. At the close of the month drouth obtained generally.

August.—The first half of the month averaged warmer than normal, while the latter half was cooler than normal. Excessive heat obtained only during the first week, and, as a rule, the month was a pleasant one from the physiological side. The weather was not altogether favorable for crops. The rainfall was unevenly distributed and fell at irregular intervals, the intervals between good rains being rather too long for best results. An unusual rainstorm occurred in a few of the central-west counties, south of the Missouri River, on the 27th, 28th and 29th. Amounts, ranging from 5 to over 11 inches, fell within twenty-four hour periods. The Blackwater River went out of banks, and only the prevailing dry condition of the soil prevented heavy damages in some localities.

September.—The month was warm, with a large amount of sunshine. The rainfall was deficient in most of the southern half of the State, but ample over the northern half during the latter half of the month. There were no frosts, hail or windstorms. The weather was favorable for maturing crops; it also was favorable for farm work, except rather too dry in the southwest for satisfactory plowing and preparing soil for wheat seeding; in other sections, however, this work made good progress.

October.—The weather of the month was warm and wet, except in the northwestern section, where it was drier and somewhat colder than normal. There was more cloudiness than usual for October, and the so-called Indian Summer weather was absent. There was no general hard freeze, but temperatures approximating the freezing value occurred at most stations in the northern and western sections on the 17th and 18th, and again on the 28th and 29th. Vegetation was generally matured and no damage was done. Excessive rains caused floods in the lower watersheds of the Osage, Gasconade and Meramec rivers. Corn in shock was carried away and newly-sown wheat fields were inundated. Local traffic and business suffered somewhat.

November.—The month was somewhat wetter than normal, but the other meteorological elements differed but slightly from their respective normals. On the whole the month was pleasant and generally favorable for outdoor work, except the fields were too muddy for hauling out corn, especially during the first ten and last five or six days. Wheat made a fair start. The snowfall was confined to the northern half of the State and exceeded the average a few inches.

December.—This month was characterized by scanty precipitation, excessive cloudiness and persistent cold, although without sudden severe temperature changes. There was much mist and fog from about the 19th to the 24th, and during much of this time all outdoor objects were thickly covered with a glazed frost, the whole presenting an enchanting view. Damage was confined to a few telegraph and telephone wires and poles and limbs of trees. The weather was too cold for much outdoor work. The public roads were in fine shape for traffic in general.

Comparative Annual Data for the State.

Year	Temperature			Precipitation	Year	Temperature			Precipitation
	Mean	Maximum	Minimum			Mean	Maximum	Minimum	
1888	52.9	111	−32	41.22	1905	53.6	103	−40	45.13
1889	54.3	107	− 9	37.91	1906	55.1	101	−13	37.34
1890	54.7	106	−19	35.71	1907	55.6	109	−15	41.84
1891	53.9	108	−11	38.04	1908	56.7	102	−10	42.56
1892	53.4	101	−11	42.76	1909	56.7	110	29	45.16
1893	52.7	107	−20	33.19	1910	55.0	109	−24	36.86
1894	55.1	111	−35	33.18	1911	56.9	113	−19	38.94
1895	52.9	106	−26	39.30	1912	53.6	105	−36	38.68
1896	55.5	108	−10	44.63	1913	56.5	110	−12	37.47
1897	55.0	108	−16	38.82	1914	56.1	109	−18	31.72
1898	54.4	104	−20	53.67	1915	54.8	102	−24	49.62
1899	51.0	108	−32	37.32	1916	55.2	109	−29	40.33
1900	55.6	105	−16	38.31	1917	52.3	107	−23	31.91
1901	55.5	116	−29	25.28	1918	55.5	111	−25	37.16
1902	54.1	103	−17	44.96	1919	55.2	106	−23	40.05
1903	53.6	102	−25	40.15	Average 32 yrs.	54.7	116	−40	39.66
1904	53.2	100	−23	41.62					

DESCRIPTION OF EVAPORATION STATIONS.

The University of Missouri, Columbia, Boone County, is situated in latitude N. 38° 57', longitude W. 92° 20'; elevation, 737.5 feet above sea level.

For convenience and to prevent confusion of records the two evaporation stations at this place have been named "Columbia" and "University of Missouri," as both are located on University grounds. "Columbia" is located on the West Campus, about 180 feet northwest of Switzler Hall, in which is located the Weather Bureau office, while the other station is about one mile southeast on the Experiment Farm, in the southeast quarter of an open experimental crop field, where the exposure compares favorably with sea horizon. The exposure of the station on the West Campus is not so good, the pan being shaded in summer by reason of trees and buildings, as compared with sea horizon, about two hours in the morning and evening; and the free movements of the winds also are much interfered with, the "University" station experiencing about 100 per cent more wind. The different exposures afford an excellent comparison as to the effect of wind upon evaporation, this value being about 18 per cent greater at the freer exposed station.

Observations began at "Columbia" on April 1, 1916, and at "University of Missouri" on May 1, 1916. Observations are taken daily, at 6.45 a. m. at the former, and 5.30 p. m., 90th meridian time, at the latter station. The equipment is the same in both cases, that is, the evaporation pans are cylindrical, made of 22 B. W. G. iron, 48 inches in diameter, 10 inches deep, and are filled to the approximate depths of 8 inches. The pans rest upon wooden supports and there is good ventilation under them. The rain guage at "Columbia" is the 12-inch TB pattern, while the regular 8-inch pattern is placed at the other station. Both stations have the Robinson anemometer, the instruments being so placed that the cups are 6 inches above the rim of the pan. Temperature records are made only at the West Campus station, the thermometer shelter being about 100 feet east-southeast from the pan, the bottom of the shelter 11 feet above ground; the regular maximum and minimum thermometers are used; also the following additional instruments: thermograph, barograph, hygrograph, and meteorograph. At the "Columbia" station the ground in the immediate vicinity of the pan slopes to the north, average 5 per cent grade; at the "University" station the ground has about the same average grade to the south; at the former station the soil is covered with blue grass sod, while at the latter the soil is cultivated. There are no bodies of water near either station, nor are there any irrigation projects under way nearby. The general topography is rolling, with patches of forest trees.

The U. S. Weather Bureau is in charge of the work, the supervising official being George Reeder, Meteorologist and Section Director.

Monthly Evaporation and Precipitation. and Wind Movement Over Pan, at University of Missouri, Columbia.

			Mar	Apr.	May	June	July	Aug	Sept.	Oct.	Nov.	Total
Columbia. Mo.*	1916	Evaporation	......	3.449	4.985	5.165	7.520	6.540	3.812	2.454	1.741	35.69
		Precipitation	......	2.68	5.21	3.64	0.67	2.01	4.43	1.55	2.21	22.43
		Wind movement	......	1,767	1,178	1,057	616	798	808	1,161	1,688	9,07
	1917	Evaporation	3.395	3.580	4.452	6.262	7.275	5.490	3.811	2.728	1.500	38.39
		Precipitation	3.52	4.64	4.89	2.66	0.93	5.27	2.38	0.72	0.10	25.11
		Wind movement	2,517	2,116	1,331	922	830	840	809	1,511	1,154	12,03
	1918	Evaporation	3.693	3.474	5.261	7.687	7.637	7.280	3.084	2.292	1.196	41.60
		Precipitation	0.64	5.07	3.95	2.68	0.73	7.83	9.69	1.99	2.47	35.05
		Wind movement	1,728	1,840	1,120	917	863	847	681	991	1,391	10,37
	1919	Evaporation	2.187	3.784	4.022	5.367	7.382	6.292	4.009	2.615	1.355	36.44
		Precipitation	1.30	2.84	6.21	3.96	2.52	5.37	3.31	7.68	2.84	36.03
		Wind movement	1,316	1,671	1,023	612	533	707	557	656	1,207	8,32
University of Mo.**	1916	Evaporation	......	...	5.693	6.258	9.487	8.216	5.839	4.100	.....	39.95
		Precipitation	...	......	5.72	3.50	0.71	2.27	4.40	1.51	......	18.14
		Wind movement	....	......	2,158	1,879	1,986	1,562	....	.	......	...
	1917	Evaporation	......	......	5.515	7.178	9.926	6.600	5.293	3.913	2.219	41.0
		Precipitation	......	......	4.55	2.60	0.88	5.17	2.18	0.65	0.03	16.0
		Wind movement	....	......	3,319	2,496	2,203	1,606	1,628	3,238	1,937	16,4
	1918	Evaporation	5.272	4.398	6.717	8.905	9.130	8.431	4.337	3.599	1.66	52.4
		Precipitation	0.74	4.97	4.09	3.25	0.73	6.96	9.51	1.88	2.45	31.5
		Wind movement	3,648	3,946	2,943	2,100	1,718	1,825	1,569	2,324	2,818	22,8
	1919	Evaporation	§2.888	5.056	4.794	6.269	8.187	7.202	5.705	2.882	.....	42.9
		Precipitation	1.08	2.83	6.56	4.10	2.30	5.30	3.16	7.91	2.58	36.1
		Wind movement	2,402	3,399	2,294	1,641	1,196	1,615	1,444	1,935	2,444	18,3

*Observations taken at 6.45 a. m. **Observations taken at 5.30 p.m (90th meridia time). § For 28 days.

Climatological data for Year, 1919.

Stations	Counties	Elevation, feet	Temperature (Degrees Fahrenheit)						Precipitation (inches)							Number of days				Prevailing direction of wind.
			Length of record, yrs.	Annual mean	Highest	Date	Lowest	Date	Length of record, yrs.	Total	Greatest monthly	Month	Least monthly	Month	Total snowfall	With precip. .01 inch or more	Clear	Partly cloudy	Cloudy	
Northeast Plain.																				
Brunswick	Chariton	650	39	54.0	101	Aug. 6	−15	Jan. 3	39	34.07	5.63	June	0.08	Jan.	15.2	98	220	7	138	nw.
Clifton Hill	Randolph	731	21	54 8	103	July 25	−14	" 3	21	34.05	7.10	Aug.	0.08	"	12.4	85	203	87	75	......
Columbia	Boone	784	30	54.9	102	Aug. 6	−11	" 3	31	38.38	7.68	Oct.	0.07	"	10.8	107	158	100	107	se.
Fayette	Howard	725	40	......	......	......	−12	" 3	40	......	......	......	0.06	"	11.8	......	......	......	......	......
Fulton	Callaway	818	33	......	103	Aug. 6	− 9	" 3	33	......	10.31	Oct.	0.15	"	8.6	......	......	......	......	......
Gorin	Scotland	700	......	......	......	......	......	......	32	30.73	7.49	May	0	"	6.8	77	118	101	146	sw.
Hannibal	Marion	534	28	54.0	99	Aug. 6	−12	Jan. 3	37	35.73	6.36	"	0.02	"	11.3	107	150	100	115	sw.
Jefferson City	Cole	557	33	54.7	102	" 6	− 9	" 3†	37	41.56	11.91	Oct.	0.48	"	11.9	108	225	57	83	s.
Kirksville	Adair	969	31	52.3	99	July 29	−17	" 3	38	32.02	8.13	May	T.	"	6.6	81	193	115	57	s.
Louisiana	Pike	469	26	54.2	100	" 28†	− 9	" 3	39	39.54	8.20	Oct.	0.05	"	17.0	98	231	56	78	w.
Macon	Macon	875	21	52.3	99	Aug. 6	−12	" 3	26	36.10	7.40	Aug.	0.21	Dec	14.1	93	179	73	113	sw.
Mexico	Audrain	797	31	53.6	101	July 28†	−10	" 3	41	48.29	8.66	Sept.	0.38	Jan.	9.0	87	230[a]	23[a]	111[a]	e.
Oakfield	Franklin	793	29	56.6	105	Aug. 6	− 7	" 3	38	40.48	9.84	Oct.	0.04	"	13.0	89	108	157	100	s.
Palmyra	Marion	652	18	......	103	" 6	−13	" 3	20	......	......	......	0	"	6.1	......	......	......	......	......
St. Catherine	Linn	850	9	52.4	99	July 29†	−20	" 3	9	32.17	7.11	June	0.06	"	14.7	94	162	124	79	sw.
St. Charles	St. Charles	456	32	56.9	104	Aug. 6	− 5	" 3†	41	35.11	7.96	Oct.	T.	"	2.7	57	157	94	114	s.
St. Louis (1)	St. Louis City	717	47	57.2	102	" 6	− 3	" 3	83	40.79	8.52	"	0.13	"	5.3	107	161	114	90	nw.
St. Louis (2)	......do	578	8	56.7	101	" 6	− 4	" 3	8	37.63	8.87	"	0.16	"	7.5	110	161	108	96	se.
Shelbina	Shelby	779	......	......	......	......	......	......	27	32.35	6.41	May	0	"	4.1	51	......	......	......	......
Steffenville	Lewis	650	21	51.5	104	July 28	−17	Jan. 3	26	35.62	6.32	"	0.39	Dec.	19.5	78	145[a]	139[a]	80[a]	sw.
Unionville	Putnam	1,072	27	51.8	100	Aug. 6	−20	" 3	27	43.09	8.56	"	0.04	Jan.	17.4	89	185	48	132	n.
Warrenton	Warren	865	38	54.4	104	" 6	− 9	" 3†	38	44.70	8.63	Oct.	0.50	"	11.5	101	116[a]	131[a]	117[a]	s.
Keokuk, Iowa	Lee, Iowa	574	48	53.2	100	July 31	−18	" 3	48	26.03	4.69	Sept.	0.01	"	7.1	100	153	123	89	s.
Section means and	extremes	......	......	54.4	105	Aug. 6	−20	" 3	......	36.92	11.91	Oct.	0	"	10.6	91	172	92	101	s.
Southeast Lowlands.																				
Caruthersville	Pemiscott	220	24	63.6	106	Aug. 6†	6	Jan. 4	29	58.49	8.67	March	1.28	July	1.5	97	231	38	96	e.
Doniphan	Ripley	344	16	58 6	102	" 6	3	" 4	16	43.29	7.02	June	0.27	Dec.	4.0	90	207	63	95	sw.
Jackson	Cape Girardeau	458	29	58.3	102	" 6	2	" 4	30	52.31	8.90	"	0.87	"	1.8	87	130[a]	110[a]	124[a]	s.
Marble Hill	Bollinger	420	26	......	......	......	1	" 4	26	......	......	......	......	......	......	......	......	......	......	s.
Patton (near).	Bollinger	500	......	......	......	......	......	......	10	41.43	8.86	Oct.	0.50	Jan.	3.0	70	......	......	......	......
Poplar Bluff	Butler	339	16	59.3	100	Aug. 6†	4	Jan. 4	16	51.69	9.25	"	1.19	"	0.8	101	173	54	138	......
Cairo, Ill.	Alexander, Ill.	359	45	59.1	98	" 6	4	" 4	45	43.25	6.61	March	1.15	"	1.8	111	109	101	155	s.
Section means and	extremes	......	......	59.8	106	" 6†	1	" 4	......	48.41	9.25	Oct.	0.27	Dec.	2.2	93	170	73	122	s.
Ozark Plateau.																				
Arcadia	Iron	925	39	55.3	104	Aug. 6	− 3	Jan. 4	42	37.84	7.99	Oct.	0.50	Dec.	9.0	101	170[a]	77[a]	117[a]	s
Birchtree	Shannon	1,078	26	57.3	98	July 27†	− 3	" 4	26	36.59	6.69	"	0.40	"	10.0	79	215[h]	57[b]	85[h]	s.
Bolivar	Polk	1,071	26	57.1	102	Sept. 10	− 7	" 3	33	48.13	14.11	"	T.	Jan.	8.0	88	175	93	97	sw.
Cassville	Barry	1,475	22	......	101	" 3	− 4	" 3	21	......	8.30	"	T.	"	5.6	......	......	......	......	......
Dean	McDonald	1,000	21	......	100	Aug. 6	− 8	Feb. 9	21	44.89	12.90	"	0.35	"	5.5	90	239[i]	25[i]	92[i]	......
Eldon	Miller	934	25	53.5	100	" 4†	−11	Jan. 3	21	42.41	12.23	"	0.10	"	9.0	88	113[e]	155[e]	92[e]	ne.
Farmington	Reynolds	918	10	57.7	102	" 6	− 4	" 3	23	40.39	11.78	"	0.44	"	8.2	96	154[a]	128[a]	82[a]	sw.
Gano	Dent	1,250	16	55.9	103	" 6	− 8	" 3	18	40.33	11.07	"	0.20	"	14.7	96	200	74	91	s.
Goodland	Iron	1,000	26	55.7	100	" 6	− 4	" 3	27	40.24	8.67	"	0.05	"	1.5	64	195	98	72	s.
Hollister	Taney	735	33	......	......	......	0	" 3†	17	......	......	......	......	......	......	......	......	......	......	sw.
Houston	Texas	1.280	27	......	......	......	− 4	" 3	27	34.70	8.21	Oct.	0.05	Jan.	9.5	65	188	82	95	se.
Koshkonong	Oregon	958	19	59.0	99	July 25†	0	" 4	19	42.94	8.26	June	0.54	Dec.	6.5	99	172[g]	63[g]	123[g]	sw.
Lebanon	Laclede	1,265	32	54.2	97	" 25†	− 8	" 3	32	48.19	13.83	Oct.	T	Jan.	17.0	96	201	94	70	s.
Lockwood	Dade	1,078	14	57.4	100	Aug. 5	− 7	" 3†	24	36.57	12.53	"	0.18	"	12.0	75	201	55	109	se.
Mountain Grove	Wright	1,490	19	55.1	97	Sept. 10	− 7	" 4	23	49.87	10.35	"	0.47	Dec.	10.0	97	153	84	128	se.
Neosha	Newton	1,011	32	57.7	99	Aug. 6	−10	Feb. 9	37	42.48	11.39	"	0.18	Jan.	5.1	106	215	73	77	sw.
Rolla	Phelps	1,139	20	57.3	99	" 6	− 8	Jan, 3	36	50.89	14.87	"	0.11	"	17.0	98	180	125	60	s.
Springfield	Greene	1,350	32	56.5	97	" 6	− 6	" 3	42	38.96	11.94	"	0.34	"	28.2	107	187	95	83	se.
Section means and	extremes	......	......	56 4	104	" 6	−11	" 3	......	42.16	14.87	"	T.	"	10.4	90	185	87	93	s.
Southwest Plain.																				
Amoret	Bates	831	13	55.1	102	July 11	−13	Jan. 3	13	27.90	5.29	May	0.23	Dec.	16.7	73	181	100	84	s.
Appleton City	St. Clair	853	26	......	......	......	−10	" 3	23	......	6.61	June	0.33	"	8.4	......	......	......	......	sw.
Clinton	Henry	765	27	56.6	100	Aug. 6	−10	" 3	33	41.29	8.04	"	0.43	"	11.0	66	177[b]	98[b]	88[b]	sw.
Harrisonville	Cass	912	42	......	101	July 25†	−16	" 3	44	......	6.46	Aug.	0.26	"	11.8	......	......	......	......	sw.
Lamar	Barton	980	32	57.0	102	Aug. 6	− 8	" 3	39	38.06	9.32	Oct.	0.04	Jan.	7.0	81	185	77	103	s.
Lamonte	Pettis	863	19	54.4	98	July 31†	−12	" 3	33	44.64	11 27	Aug.	T.	"	8.0	62	159[f]	119[f]	81[f]	sw.
Marshall	Saline	779	31	54.8	100	Aug. 4†	−13	" 3	31	36.12	5.43	May	0.20	"	6.9	73	173[p]	89[p]	87[p]	sw.
Nevada	Vernon	860	27	56.3	96	" 24†	− 9	" 3	28	41.85	10.69	June	0	"	6.0	83	190[a]	78[a]	96[a]	s.
Warrensburg	Johnson	883	36	......	......	......	......	......	42	......	......	......	......	......	......	......	......	......	......	......
Warsaw	Benton	715	20	56.4	100	July 25†	−10	Jan. 3	25	55.92	11.89	Oct.	0.40	Jan.	10.5	97	151	156	58	e.
Section means and	extremes	......	......	55.8	102	" 11†	−16	" 3	......	40.83	11.89	"	0	"	9.6	76	175	104	86	sw.
Northwest Plateau.																				
Avalon	Livingston	730	30	54.6	103	July 31	−12	Jan. 3	30	36.92	6.70	Aug.	0	Jan.	15.0	59	189	109	67	sw.
Bethany	Harrison	916	28	52.5	102	" 31	−20	Dec. 10	28	48.75	8.15	May	0.10	"	11.7	77	148	102	115	sw.
Chillicothe	Livingston	768	12	......	104	" 31	−18	Jan. 3	15	......	6.45	Aug.	0	"	......	......	......	......	......	sw.
Conception	Nodaway	982	31	52.3	102	" 31†	−21	" 3	35	46.08	8.52	July	0	"	8.7	76	130	136	99	nw.
Grant City	Worth	1,134	17	52.1	103	Aug. 6	−20	Dec. 10	29	40.08	7.15	June	0.10	"	16 0	72	187[b]	65[b]	111[b]	nw.
Kansas City	Jackson	963	31	55.1	100	" 6	−13	Jan. 3	31	31.23	8.14	Aug.	0.07	"	17.2	96	175	91	99	s.
Kidder	Caldwell	1,020	27	53.0	99	" 6	−18	" 3	33	33.72	8.06	June	0.12	Dec.	17.3	87	202	56	107	sw.
Lexington	Lafayette	688	35	54.8	100	July 31†	−15	" 3	38	27.54	4.51	Aug.	0.27	"	25.7	84	217[a]	2[a]	145[a]	s.
Liberty	Clay	864	30	......	103	" 31†	−16	" 3	30	......	......	......	0	Jan.	13.7	......	......	......	......	s.
Maryville	Nodaway	1,036	30	49.3	101	Aug. 6	−23	" 3	30	39.32	6.95	June	0.65	"	26.0	101	186[k]	28[k]	140[k]	s.
Oregon	Holt	1,048	61	51.4	98	July 27†	−20	" 3	64	38.83	6.47	"	0.09	"	20.3	64	165	89	111	se.
St. Joseph	Buchanan	967	12	53.6	100	" 31†	−16	" 3	46	36.38	6.00	March	0.03	"	10.4	95	169	99	97	se.
Tarkio	Atchison	976	17	52.1	101	Aug. 6	22	Dec. 10	27	32.12	5.50	June	0.60	"	14.0	71	203	62	100	sw.
Trenton	Grundy	822	24	52.6	97	July 31	−17	Jan. 3	25	42.83	9.09	May	T.	"	13.4	90	189[a]	71[a]	104[a]	se.
Section means and	extremes	......	......	52.8	104	" 31	−23	" 3	......	37.82	9.09	"	0	"	16.1	81	180	77	108	sw.
State means and	extremes	......	......	55.2	106	§Aug. 6†	−23	‡Jan. 3	.. ..	40.05	14.87	*Oct.	0	‖Jan.	10.7	84	177	88	100	s.

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† Also on other dates.

[a], [b], [c], indicate the number of days missing from records, a, 1; b, 2; c, 3; etc.

§ At Caruthersville. ‡ At Maryville. * At Rolla ‖ At Gorin, St. Catherine, Steffenville, Nevada, Avalon, Chillicothe, Conception, and Liberty.

Monthly and Annual Precipitation for the Year 1919, with Departures.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual	
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
Northeast Plain.																										
Boonville	0.52	-1.46	1.94	-0.64	1.62	-1.38	3.24	-0.70	5.06	-0.21	5.43	-0.10	3.85	-0.11	5.83	+2.21	2.33	-2.43	6.04	+3.30	2.54	+0.19	0.65	-1.32	39.05	-2.65
Brunswick	0.08	-1.69	1.05	-0.96	1.21	-1.27	2.61	-0.66	5.04	+0.11	5.63	+0.14	4.01	-0.63	4.56	+0.69	4.82	+0.49	1.98	-0.87	2.79	+0.83	0.29	-1.42	34.07	-5.24
Clifton Hill	0.08	-1.93	2.12	+0.16	2.11	-0.51	2.09	-1.25	5.52	+0.22	3.65	-1.91	2.19	-2.07	7.10	+4.26	4.78	+0.92	1.49	-0.36	2.62	+0.89	0.30	-1.29	34.05	-2.87
Columbia	0.07	-2.16	1.73	-0.40	1.30	-1.73	2.84	-0.86	6.21	+1.35	3.96	-0.42	2.52	-1.13	5.37	+2.33	3.31	+0.46	7.68	+5.26	2.84	+0.53	0.55	-1.46	38.38	+1.77
Fayette	0.06	-2.05	2.20	+0.12	1.57	-1.08	2.13	-1.20	5.12	+0.47	5.11	+0.42	2.62	-1.15	.....	.....	3.14	-1.60	4.01	+1.54	3.14	+1.09	0.51	-1.22	.....	.....
Fulton	0.15	-2.46	1.72	-0.38	0.85	-2.06	1.90	-2.19	5.89	+1.21	4.24	-0.47	.....	.....	7.23	+2.89	3.08	-1.14	10.31	+7.81	2.67	+0.27	0.71	-1.29	.....	.....
Glencoe	0.12	.....	1.91	.....	2.42	.....	2.55	.....	6.39	.....	2.58	.....	2.13	.....	5.44	.....	2.90	.....	8.93	.....	2.35	.....	0.90	.....	38.65	.....
Gorin	0.00	-1.76	1.26	-0.36	0.85	-1.62	3.59	-0.23	7.49	+2.91	1.91	-1.85	2.17	-2.01	2.90	-0.11	3.55	-0.86	3.77	+1.36	3.06	+1.10	0.18	-1.67	30.73	-5.13
Hannibal	0.02	-2.18	2.22	+0.62	2.58	-0.18	2.44	-0.81	6.36	+1.36	3.41	-0.11	3.73	-0.02	3.83	+0.45	3.28	-0.28	4.87	+3.23	2.63	+0.68	0.36	-1.29	35.73	+1.47
Hermann	0.41	-1.82	2.06	-0.37	2.28	-0.72	2.27	-1.26	4.32	+0.02	3.39	-1.20	1.04	-2.93	4.07	+0.86	4.00	-0.02	9.91	+7.22	3.28	+0.46	0.76	-1.08	37.79	-0.84
Jefferson City	0.48	-1.84	1.86	-0.28	1.11	-1.76	2.72	-0.87	4.74	+0.20	5.83	+1.79	1.37	-2.16	3.60	+0.61	4.10	+0.81	11.91	+8.62	3.16	+0.87	0.68	-1.22	41.56	+4.83
Kirksville	T.	-1.61	1.19	-0.74	1.05	-1.66	3.36	-0.10	8.13	+2.81	2.76	1.63	1.32	-3.26	5.53	+2.28	3.30	-1.13	2.10	-0.76	3.10	+1.35	0.18	-1.54	32.02	-5.99
Louisiana	0.05	-2.00	2.74	+0.27	1.95	-0.72	2.03	-1.02	4.67	+0.15	3.76	-0.29	1.31	-1.98	5.71	+2.11	5.63	+1.79	8.20	+5.70	2.93	+0.72	0.56	-1.16	39.54	+3.57
Macon	0.33	-1.53	2.13	-0.05	2.06	-0.46	2.36	-0.51	5.52	+0.65	4.47	-0.28	3.36	-0.30	7.40	+1.50	2.93	-1.15	2.38	-0.42	2.95	+1.00	0.21	-1.29	36.10	+0.16
Mexico	0.38	-1.80	1.02	-1.43	1.15	-1.52	1.55	-1.92	7.85	+3.12	6.91	+2.00	3.51	-0.50	6.74	+3.60	8.66	+4.25	6.92	+4.61	2.74	+0.34	0.83	-1.28	48.29	+9.47
Oakfield	0.04	-2.53	1.74	-0.77	2.29	-1.61	2.26	-1.75	8.66	+3.73	3.61	-0.92	2.25	-1.88	3.28	-0.56	3.01	-0.87	9.81	+7.10	2.59	-0.16	0.91	-1.19	40.48	-1.41
Pacific	0.65	.....	1.70	.....	2.78	.....	2.14	.....	6.38	.....	3.14	.....	1.99	.....	4.45	.....	2.29	.....	9.55	.....	2.20		0.93	.....	38.20	.....
Palmyra	0.00	-2.65	2.06	-0.23	2.20	-0.71	.....	.....	.....	.....	.....	.....	.....	.....	4.46	+0.78	4.43	+0.72	2.27	-0.12	2.84	+0.53	0.24	-1.68	.....	.....
St. Catherine	0.06	.....	1.38	.....	1.08	.....	2.31	.....	5.57	.....	7.11	.....	3.07	.....	4.35	.....	2.58	.....	1.82	.....	2.68	.....	0.16	.....	32.17	.....
St. Charles	T.	-2.50	1.10	-1.80	1.89	-1.25	1.79	-1.73	6.06	+1.81	3.03	-1.13	1.75	-1.75	2.45	-0.99	6.40	+3.32	7.96	+5.45	1.96	-0.68	0.72	-1.20	35.11	-2.45
St. Louis(1)	0.13	-2.14	1.54	-1.21	1.72	-1.71	1.76	-1.76	7.86	+3.62	5.30	+0.83	1.50	-1.93	3.03	+0.37	6.15	+3.22	8.52	+6.11	2.08	-0.80	1.22	-1.01	40.79	+4.59
St. Louis(2)	0.16	.....	1.57	.....	1.30	.....	1.65	.....	6.47	.....	3.80	-0.24	1.36	.....	2.30	.....	6.25	+1.88	8.87	+5.69	2.71	.....	1.19	-0.91	37.63	.....
Shelbina	0.00	-1.90	1.70	-0.49	1.90	-0.72	1.96	-1.23	6.41	+1.25	2.59	-2.50	2.00	-2.60	6.16	+3.52	4.38	+0.74	1.60	-1.42	3.35	+1.24	0.30	-1.48	32.35	-5.59
Steffenville	0.50	-1.97	2.03	-0.02	1.57	-1.25	2.53	-0.87	6.32	+1.29	4.45	+0.28	1.84	-3.01	6.14	+2.55	2.65	-1.58	3.16	+1.08	4.04	+2.11	0.39	-1.30	35.62	-2.69
Union	0.50	.....	2.04	.....	3.11	.....	2.78	.....	4.74	.....	3.29	.....	2.51	.....	4.86	.....	1.94	.....	9.69	.....	3.51	.....	0.87	.....	39.84	.....
Unionville	0.04	-2.06	2.52	+0.52	3.10	-0.79	5.04	+1.55	8.56	+2.55	5.20	+0.78	3.80	-0.39	3.01	-0.94	3.89	-0.79	2.47	+0.03	4.13	+2.44	1.30	-0.39	43.09	+2.51
Valley Park	0.21	.....	1.46	.....	3.95	.....	2.85	.....	6.45	.....	3.11	.....	2.96	.....	5.41	.....	3.68	.....	11.17	.....	2.74	.....	.....	.....	.....	.....
Warrenton	0.50	-1.96	2.46	-0.05	2.84	-0.45	1.98	-2.24	6.57	+1.94	4.93	+0.58	2.75	-1.18	4.60	+1.51	4.24	+0.28	8.63	+5.96	4.41	+1.77	0.79	-1.38	44.70	+4.72
Keokuk, Ia.	0.01	-1.68	1.57	-0.05	1.49	-0.88	1.94	-1.40	4.24	-0.01	2.38	-1.97	2.47	-1.56	3.85	+0.61	4.69	+0.72	1.68	-0.81	2.53	+0.65	0.18	-1.48	26.03	-7.83
Southeast Lowlands.																										
Cape Girardeau	2.13	-1.97	2.01	-0.40	5.60	+2.31	2.05	-1.66	4.76	+1.04	7.42	+3.79	0.50	-2.56	7.10	+3.28	4.12	+2.19	7.92	+5.80	4.06	+0.32	1.67	-1.70	49.34	*10.44
Caruthersville	2.81	-1.77	2.16	-1.87	8.67	+4.75	5.50	+1.57	7.94	+3.94	4.22	+0.34	1.28	-2.20	5.10	+1.58	2.02	-1.08	7.26	+4.51	7.23	+3.40	4.30	-0.08	58.49	*13.09
Doniphan	1.27	-3.09	1.64	-2.00	4.21	+0.65	3.05	-2.06	4.23	+0.48	7.02	+2.58	1.44	-3.61	3.08	-1.44	3.05	-0.50	6.07	+3.25	7.96	+5.02	0.27	-3.15	43.29	-3.87
Jackson	1.41	-2.50	1.43	-1.68	4.67	+0.30	2.68	+1.71	5.22	+1.20	8.90	+4.68	2.18	-1.35	4.99	+1.43	4.70	+1.13	8.35	+5.29	6.91	+3.82	0.87	-2.38	52.31	*11.65
Marble Hill	1.10	-2.68	1.80	-1.69	3.55	-0.90	2.78	-1.53	3.90	-1.38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.75	-2.02	.....	.....
New Madrid	4.47	-0.87	2.00	-2.13	8.43	+3.09	2.60	-1.51	5.62	+1.23	9.14	+5.16	0.45	-3.55	5.77	+1.95	3.01	-0.31	6.48	+3.36	7.17	+3.36	3.25	-1.07	58.39	+8.71
Patton	0.50	.....	2.00	.....	4.87	.....	1.77	.....	4.33	.....	4.40	.....	1.35	-2.65	4.55	+0.23	3.31	-0.09	8.86	+6.29	4.79	+2.71	0.70	.....	41.43	.....
Poplar Bluff	1.42	-2.66	1.56	-1.92	4.74	-0.11	2.19	-2.02	4.88	-0.12	6.08	+0.76	1.23	-2.37	7.67	+3.68	5.01	+1.75	9.25	+6.49	6.47	+3.22	1.19	-3.17	51.69	+3.53
Cairo, Ill	1.15	-2.67	1.25	-2.08	6.61	+2.59	4.78	+1.21	3.53	-0.30	4.61	+0.30	1.51	-1.94	3.41	+0.48	1.80	-0.67	5.97	+3.34	6.47	+2.45	2.16	-1.17	43.25	+1.54
Ozark Plateau																										
Arcadia	0.89	-2.37	1.94	-1.45	2.39	-1.68	1.75	-2.73	4.65	-0.04	3.13	-1.66	0.59	-3.75	3.44	-0.24	4.87	+1.21	7.99	+5.07	5.70	+2.06	0.50	-2.51	37.84	-8.12
Arlington	0.00	-2.02	1.54	-1.37	1.27	-1.67	1.85	-1.87	6.11	+1.79	4.93	+1.39	3.81	+0.61	3.44	-0.85	1.50	-2.00	.....	.....	.....	.....	.....	.....	.....	.....
Aurora	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.88	+4.09	0.38	-2.26	.....	
Birchtree	0.70	-2.41	1.73	-1.03	2.31	-2.22	2.45	-2.21	4.40	+0.31	6.14	+1.58	1.26	-2.89	2.37	-2.13	2.49	-1.07	6.69	+4.33	5.65	+4.05	0.40	-2.25	36.59	-5.91
Bolivar	T.	-1.99	2.53	+0.11	1.56	-1.50	5.65	+1.67	9.37	+4.13	5.54	+0.44	2.19	-1.61	3.19	-0.42	0.73	-3.42	14.11	*11.14	2.59	+3.06	0.67	-1.81	48.13	+9.80
Cassville	T.	-2.27	2.33	+0.27	0.85	-3.09	1.98	-1.95	.....	.....	4.21	+0.68	2.41	-1.99	2.25	-1.74	1.24	-2.88	8.30	+5.36	4.22	+1.86	.....	.....	.....	.....
Dean	0.35	-2.06	2.08	+0.01	1.39	-2.02	2.84	-1.33	4.11	-1.93	6.40	+1.03	2.14	-2.05	4.55	+0.47	1.70	-1.99	12.90	+9.97	5.74	+2.74	0.69	-1.45	44.89	+1.39
Eldon	0.10	-1.63	1.12	-1.37	1.37	-1.54	4.33	-0.20	5.81	-0.97	3.81	-0.66	2.69	-1.09	4.11	+0.16	3.48	-0.31	12.23	+9.73	3.01	+0.76	0.35	-1.99	42.41	+0.89
Farmington	0.44	-1.94	1.72	-1.64	2.12	-1.12	1.59	-2.33	5.60	-0.49	4.86	-0.20	0.32	-3.35	2.74	-0.54	4.92	+1.67	11.78	+9.34	3.93	-0.17	0.46	-2.34	40.39	-3.11
Gano	0.20	-2.89	2.14	-0.58	1.95	-1.48	1.49	-2.95	5.75	+1.37	7.58	+3.04	1.29	-2.41	3.03	-1.19	2.80	-1.43	11.07	+7.64	2.64	+0.24	0.39	-1.67	40.33	-2.31
Goodland	0.05	-3.01	1.95	-0.82	2.32	-2.07	1.48	-3.54	5.18	+1.13	5.95	+1.68	2.93	-1.34	3.84	-0.15	3.00	-0.78	8.67	+5.72	3.60	+0.66	0.97	-1.56	40.21	-4.08
Hollister	0.30	-2.21	1.38	-1.22	2.42	-0.67	.....	.....	9.33	+5.06	8.29	+4.42	1.84	-2.29	2.60	-1.34	3.20	-0.47	9.55	+7.15	5.65	+2.89	0.90	-1.45	.....	.....
Houston	0.05	-2.64	1.98	-0.47	1.59	-2.74	1.77	-2.84	4.44	+0.32	5.62	+0.79	0.62	-3.63	3.06	-0.62	3.65	-0.13	8.21	+5.73	3.36	+0.87	0.55	-1.94	34.70	-7.60
Koshkong	0.96	-2.64	2.55	-0.56	3.53	-0.37	3.94	-0.85	2.74	-1.77	8.26	+4.01	1.24	-2.72	1.93	-2.60	1.87	-1.63	7.53	+4.97	7.85	+4.96	0.51	-2.78	42.94	-1.98
Lebanon	T.	-2.62	2.69	+0.02	2.01	-1.46	3.05	-1.24	9.10	+3.60	3.27	-1.82	2.88	-1.24	4.03	+0.58	1.79	-2.22	13.83	*10.96	3.57	+0.99	1.97	-0.67	48.19	+4.88
Lockwood	0.18	-1.63	1.83	-0.38	0.95	-1.41	3.91	+0.25	5.81	+0.83	3.99	-0.91	2.09	-3.05	1.37	-2.84	0.30	-3.75	12.53	+9.88	2.81	+0.57	0.80	-1.19	36.57	-3.96
Mt. Grove	0.99	-1.99	1.98	-0.59	2.37	-1.93	2.27	-2.77	7.95	+3.32	9.49	+5.08	4.43	+0.39	3.26	-1.19	1.96	-2.13	10.35	+7.72	4.41	+1.97	0.47	-1.84	49.87	+6.04
Neosho	0.18	-2.11	2.31	-0.22	1.92	-1.54	2.10	-2.13	3.93	-2.16	8.85	+3.46	1.61	-2.65	1.87	2.26	1.98	-2.20	11.39	+8.50	5.84	+2.81	0.47	-2.14	42.48	-3.17
Rolla	0.11	-2.49	2.46	+0.13	2.85	-0.60	2.64	-1.99	7.64	+2.06	6.77	+2.65	4.26	+0.09	4.40	+0.37	1.84	-1.99	14.87	*12.29	2.98	+0.63	0.67	-1.41	50.89	+9.71
Springfield	0.34	-2.32	2.44	+0.17	2.23	-1.81	3.55	-0.31	4.52	-1.03	4.00	-1.19	1.96	-2.83	0.53	-3.78	1.62	-2.11	11.94	+9.14	4.49	+1.85	0.44	-2.23	38.06	-6.51
Steelville	0.54	-1.51	1.60	-0.93	1.59	-0.40	2.01	-2.16	8.29	+3.96	5.38	+1.16	1.57	-1.75	2.72	-0.77	2.62	0.61	14.73	*12.20	2.48	-0.31	0.66	-1.30	44.22	+7.55
Tuscumbia	0.51	.....	2.11	.....	1.74	.....	3.61	.....	5.92	.....	6.66	.....	.....	.....	5.31	.....	2.23	.....	10.93	.....	3.20	.....	0.95	.....	.....	.....
Southwest Plain.																										
Amoret	1.25	-0.21	1.98	-0.72	0.37	-2.12	3.31	-0.84	5.29	+0.33	2.43	-1.57	1.44	-2.78	3.63	+0.07	1.26	-2.71	4.81	+2.49	1.90	+0.24	0.23	-1.54	27.90	-9.36
Appleton City	0.34	-1.67	2.05	-0.11	1.47	-1.51	3.97	-0.30	5.67	+0.09	6.61	+1.57	1.12	-3.72	.....	.....	.....	.....	.....	.....	.....	.....	0.33	-1.59	.....	.....
Clinton	0.70	-1.39	2.44	-0.18	1.12	-1.69	3.72	-0.32	6.46	+1.01	8.01	+3.31	1.15	-2.92	5.35	+0.11	2.55	-1.14	7.93	+5.28	1.40	-0.52	0.43	-1.35	41.29	+0.23
Harrisonville	0.50	.....	1.20	-0.89	.....	.....	3.10	-0.30	5.39	+0.52	2.47	-2.05	1.81	-2.02	6.46	+2.37	1.02	-3.41	2.88	+0.28	1.94	+0.19	0.26	-1.58	.....	.....
Lamar	0.04	-1.74	1.81	-0.60	1.68	-1.20	5.16	+1.01	5.20	-0.15	6.67	+1.66	1.22	-3.12	2.15	-1.76	1.98	-2.29	9.32	+6.40	1.63	-0.65	0.90	-1.09	38.06	-3.53
Lamonte	T.	-1.98	2.13	+0.09	2.40	-0.08	1.72	-2.04	5.72	+0.72	6.70	+2.22	3.77	-0.23	11.27	+7.78	1.81	-2.77	5.75	+3.51	2.87	+0.96	0.50	-1.23	44.64	+6.95
Marshall	0.20	-1.78	2.52	+0.57	1.65	-1.01	1.99	-1.71	5.43	+0.49	5.11	+0.73	2.82	-1.23	4.87	+1.29	2.81	-2.18	4.27	+1.75	2.88	+0.78	1.57	-0.12	36.12	-2.42
Nevada	0.00	-2.10	1.77	-0.40	1.10	-1.86	5.71	+1.99	4.70	-0.94	10.69	+5.65	1.92	-2.17	4.99	+1.59	0.89	-3.27	7.76	+4.86	1.17	-0.77	1.15	-0.77	41.85	+1.81
Osceola	0.00	-2.48	1.19	-0.7[illegible]	0.55	-2.44	3.97	-0.10	9.63	+3.72	9.18	+4.52	2.25	-1.89	4.17	+1.05	1.86	-2.53	9.26	+7.08	2.65	-0.34	0.49	-2.06	45.20	+3.79
Warrensburg	0.42	-1.33	3.69	+1.60	0.76	-1.82	2.21	-0.98	.....	.....	.....	.....	.....	.....	.....	.....	1.79	-1.85	2.14	-0.42	.....	.....	.....	.....	.....	.....
Warsaw	0.40	-2.09	3.70	+1.11	1.35	-1.79	4.71	+0.52	8.09	+2.95	7.55	+2.37	0.32	-4.05	10.36	+6.35	3.30	-0.87	11.89	+8.99	3.51	+1.09	0.74	-1.67	55.92	*12.91
Waverly	0.29	.....	1.99	.....	1.29	.....	2.90	.....	5.48	.....	9.16	.....	2.48	.....	5.24	.....	1.79	.....	2.21	.....	2.57	.....	0.33	.....	35.73	.....
Northwest Plateau.																										
Avalon	0.00	-1.99	2.43	+0.26	1.10	-1.78	2.60	-0.61	4.92	-0.29	5.20	+0.61	1.97	+0.80	6.70	+3.17	3.30	-1.65	2.10	-1.08	2.30	+0.37	1.30	-0.22	36.92	-2.38
Bethany	0.10	-1.35	2.29	+0.73	5.15	+3.26	5.15	+2.19	8.15	+3.03	6.56	+2.32	4.98	+0.47	3.07	-0.92	5.55	+1.77	2.98	+0.77	4.32	+2.73	0.15	1.35	48.75	*13.65
Chillicothe	0.00	-2.08	0.6[illegible]	-1.86	0.81	-1.66	2.15	-2.67	3.43	-2.07	3.35	-2.56	2.95	-2.20	6.45	+1.60	2.85	-3.63	1.15	-3.08	.....	.....	.....	.....	.....	.....
Conception	0.00	-1.05	1.98	+0.72	3.84	+2.14	4.76	+2.05	7.15	+2.45	6.61	+2.19	8.52	+4.17	1.91	-1.76	6.05	+2.28	2.19	-0.28	2.78	+1.50	0.26	-0.81	46.08	*13.60
Edgerton	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.63	.....	0.09	.....	.....	.....
Gallatin	0.20	-1.06	2.31	+0.62	3.02	+0.39	3.83	+0.22	1.85	-0.88	7.96	+2.93	2.71	-1.95	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grant City	0.10	-0.92	3.02	+1.89	3.74	-1.79	5.72	+2.85	5.47	+0.75	7.15	+2.77	3.19	-1.75	1.73	-1.97	5.00	+1.05	1.82	-0.95	2.94	+1.48	0.20	-1.05	40.08	+2.36
Kansas City	0.07	-1.06	2.09	+0.50	1.54	-1.28	3.49	+0.20	3.43	-1.68	5.03	+0.43	1.14	-3.70	8.14	+3.39	2.26	-1.50	1.35	-0.83	2.44	+0.59	0.16	-1.20	31.23	-6.14
Kidder	0.20	-1.23	2.18	+0.55	2.15	-0.08	3.80	+1.01	3.11	-2.41	8.06	+3.67	2.78	-1.33	3.82	-0.02	2.80	-1.23	1.71	-1.05	2.99	+1.29	0.12	-1.30	33.72	-2.16
Lexington	0.67	-0.99	2.20	+0.11	1.31	-0.93	2.14	-1.18	4.43	-0.70	4.15	-0.69	2.08	-2.74	4.51	+1.35	1.70	-2.81	1.92	-0.69	2.13	+0.28	0.27	-1.51	27.54	†10.50
Liberty	0.00	-1.39	2.11	+0.17	1.92	-0.63	4.19	+1.09	3.78	-1.37	5.32	+0.41	1.46	-3.14	.....	.....	.....	.....	1.81	-0.69	2.55	+0.85	0.14	-1.35	.....	.....
Maryville	0.65	-0.54	2.65	+1.15	2.57	+0.68	4.67	+1.97	5.71	-0.19	6.95	+2.41	2.61	-3.10	1.75	-2.27	5.43	+1.19	1.60	-2.53	3.95	+2.47	0.71	-0.45	39.32	+0.79
Oregon	0.09	-1.39	1.97	+0.27	2.29	+0.26	4.14	+0.89	5.91	+1.01	6.47	+1.73	3.41	-0.97	1.63	-2.46	6.09	+1.41	2.05	-0.54	4.39	+2.71	0.39	-1.12	38.83	+2.80
St. Joseph	0.03	-1.08	2.26	+0.92	6.00	+3.99	3.55	+0.68	4.69	+0.35	1.97	+0.29	2.68	-1.20	2.68	-0.98	4.40	+1.05	2.46	-0.14	2.41	+0.69	0.22	-0.89	36.38	+3.68
Tarkio	0.60	-0.26	2.53	+1.47	3.53	+1.81	5.21	+2.25	1.84	-2.97	5.50	+0.54	1.66	-2.18	1.21	-2.93	4.94	+1.43	1.21	-1.30	2.97	+1.67	0.92	-0.07	32.12	-0.54
Trenton	T.	-1.56	2.25	+0.57	3.26	+1.02	3.80	+0.94	9.09	+3.62	7.86	+3.87	6.48	+2.50	1.14	-2.46	3.31	-0.92	2.27	-0.25	3.35	+1.69	0.02	-1.52	42.83	+7.50

* Indicates plus. † Indicates minus.

Monthly and Annual Mean Temperatures for the Year 1919, with Departures.

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Northeast Plain.																										
Brunswick	30.6	+3.8	33.4	+4.9	45.3	+4.2	53.2	−1.2	60.9	−3.5	75.7	+2.9	80.2	+5.0	74.8	+1.4	71.2	+5.1	56.8	+2.0	40.2	−1.0	25.1	−5.5	54.0	+1.5
Clifton Hill	31.8	+2.9	35.4	+8.1	46.3	+5.7	56.0	+2.4	61.8	−2.4	76.1	+4.1	80.4	+4.4	75.7	−0.2	71.6	+3.0	58.1	+1.2	38.8	−4.9	25.4	−5.3	54.8	+1.6
Columbia	31.2	+7.0	35.1	+5.0	46.6	+5.2	55.0	+0.7	61.5	−3.0	75.1	+0.6	78.9	+1.5	74.7	0.0	71.1	+3.3	57.6	+2.8	42.2	−0.2	27.0	−5.9	51.9	+1.4
Fayette	31.2	+3.8	30.9	+0.9	42.4	+0.7	49.6	−5.3	60.7	−3.8	75.6	+2.4	78.8	+1.4	.....	.....	70.2	+1.8	57.2	+0.4	37.8	−4.8	26.1	−5.4	.....	.....
Fulton	31.6	+4.7	35.9	+3.7	46.7	+2.9	56.0	+1.6	61.5	−3.6	75.4	+2.1	.....		[e]75.0	−2.9	72.0	+3.2	58.9	+1.3	42.8	−1.7	28.9	−4.8	.....	.....
Hannibal	32.3	+5.6	33.3	+4.2	44.4	+2.8	53.8	+0.2	60.6	−3.8	76.0	+2.7	79.4	+2.0	74.1	−0.9	70.6	+3.7	57.4	+1.5	41.1	+0.6	25.0	−6.3	54.0	+1.0
Jefferson City	33.7	+3.9	33.6	+2.8	45.8	+2.7	54.3	−2.1	61.6	−3.6	75.6	+1.6	79.4	+1.3	76.2	−0.6	71.1	+2.1	56.6	+0.1	41.0	−3.4	27.8	−5.1	54.7	0.0
Kirksville	29.9	+5.0	31.2	+6.3	43.2	+4.6	52.0	+0.1	59.0	−3.4	73.4	+1.5	78.6	+2.5	72.8	−1.0	69.8	+3.8	55.8	+1.8	39.3	−1.0	22.2	−7.2	52.3	+1.1
Louisiana	32.6	+4.7	34.1	+5.7	44.0	+1.7	53.8	+0.1	60.0	−3.9	74.8	+3.1	78.5	+2.5	71.0	−0.7	70.9	+3.0	57.7	+1.6	42.2	−1.9	27.6	−3.4	54.2	+1.0
Macon	30.2	+1.5	30.8	+2.7	42.6	+0.4	52.2	−1.7	59.8	−4.3	75.0	+2.6	79.0	+1.6	73.2	−3.5	69.2	+0.8	51.3	−3.0	38.3	−5.9	22.6	−7.9	52.3	−1.4
Mexico	31.5	+2.9	33.4	+4.7	43.8	+2.5	[a]53.2	−1.1	60.4	−4.1	75.8	+2.2	79.9	+2.6	73.6	−2.5	70.0	+1.2	56.2	−0.3	39.4	−3.7	25.6	−6.6	53.6	−0.2
Oakfield	37.6	+5.5	35.8	+3.7	47.1	+2.6	57.4	+1.5	61.7	−3.9	75.8	+1.9	79.8	+1.9	76.8	−0.2	73.2	+3.4	60.1	+1.6	43.5	−2.9	30.0	−4.4	56.6	+0.8
Palmyra	30.5	+2.1	33.2	+6.4	[b]44.4	+5.0	.....	.....	.....	.....	.....	.....	.....	.	73.3	−3.4	69.6	+1.0	55.1	−2.3	[b]37.6	−5.5	23.1	−7.1	.....	.....
St. Catherine	28.9	.....	32.6	...	43.2	.....	52.4	.....	59.3	.....	73.6	.....	78.0	.....	72.8	....	70.0	.....	56.6	.....	39.4	.....	23.1	.....	52.4	.....
St. Charles	36.6	+5.4	36.6	+4.9	47.2	+3.7	56.8	+1.2	62.2	−0.2	77.4	+3.4	80.4	+2.7	77.3	+0.8	74.8	+7.6	59.8	+1.9	43.2	−2.1	30.0	−5.0	56.9	+2.0
St. Louis (1)	37.8	+6.8	36.7	+3.2	47.1	+3.6	57.5	+1.4	63.0	−3.5	77.3	+2.2	81.6	+2.5	77.1	−0.1	73.6	+3.6	60.8	+2.4	44.8	+1.4	29.6	−5.9	57.2	+1.5
St. Louis (2)	37.0		35.8		46.4	.....	56.8	.....	62.6	.....	77.0	+2.4	81.2	+1.1	77.0	−0.6	73.3	+3.7	60.0	+1.8	44.0	.....	29.1	−5.6	56.7	.....
Steffenville	30.6	+2.4	34.4	+7.1	44.6	+3.2	54.0	+0.8	62.0	−2.3	76.4	+3.6	82.0	+4.8	[b]74.8	−1.7	72.2	+3.5	58.4	+1.2	40.8	−3.0	[a]23.8	−6.6	54.5	+1.1
Unionville	29.0	+5.7	31.4	+7.1	41.3	+3.9	51.8	+0.7	59.2	−3.4	73.1	+1.4	78.8	+2.1	73.1	−2.2	69.8	+2.5	55.6	+0.2	38.1	−1.9	20.5	−6.9	51.8	+0.8
Warrenton	34.9	+5.7	[a]33.4	+4.0	44.8	+3.3	54.6	−0.2	60.8	−4.3	75.9	+2.5	79.4	+1.8	74.8	−1.6	[a]70.9	+2.1	56.8	+3.4	40.8	−2.1	25.5	−6.6	54.4	+0.7
Keokuk, Iowa	30.7	+7.0	31.4	+4.8	43.0	+5.1	52.9	+0.9	60.0	−3.2	75.8	+3.3	81.0	+4.0	74.4	−0.2	70.8	+4.4	56.5	+2.0	39.3	−0.1	22.3	−7.1	53.2	+1.7
Southeast Lowlands.																										
Caruthersville	41.8	+2.5	44.4	+6.4	54.0	+3.3	63.6	+3.4	69.6	+0.2	82.0	+4.5	86.6	+6.4	83.4	+3.9	78.4	+5.4	69.0	+7.9	51.8	+2.0	38.8	−1.2	63.6	+3.7
Doniphan	37.4	+0.3	39.2	−1.8	48.8	−0.4	59.2	+1.2	65.2	−1.7	76.2	+1.5	80.7	+2.6	78.3	+0.7	72.4	+1.8	64.2	+6.3	46.2	−1.7	35.2	−2.2	58.6	+0.6
Jackson	37.4	+2.7	39.6	+4.6	48.4	+1.6	60.4	+3.5	[a]65.2	−0.7	76.3	+2.2	[c]79.8	+2.5	76.6	+0.3	72.3	+2.6	63.7	+6.1	[a]47.0	+0.2	33.6	−3.0	58.3	+1.9
Marble Hill	37.8	+3.1	40.5	+5.6	49.3	+2.5	61.7	+5.2	62.2	−3.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38.2	+2.2	.....	.....
Poplar Bluff	39.5	+0.4	41.0	+5.4	50.4	+2.0	60.1	+1.1	65.0	−3.1	77.0	+1.5	81.0	+2.5	78.4	+0.3	73.7	+2.8	64.1	+4.4	46.6	−1.0	34.6	−2.4	59.3	+1.2
Cairo, Ill.	39.4	+4.6	39.6	+2.0	49.2	+2.2	59.6	+1.3	64.9	−2.6	78.0	+2.8	81.4	+2.8	77.2	+0.2	73.8	+3.6	64.7	+5.6	47.8	+0.9	34.0	−4.5	59.1	+1.6
Ozark Plateau.																										
Arcadia	35.4	−3.1	35.2	+1.9	45.6	+1.0	54.8	−0.6	61.0	−3.7	[a]74.5	+2.5	77.6	+1.7	[a]75.4	+0.8	68.9	+1.4	59.3	+3.3	44.2	+0.1	31.3	−3.0	55.3	+0.2
Aurora	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45.4	−0.6	[e]35.0	−0.1	.....	.....
Birchtree	[a]37.4	+2.6	37.6	+3.4	48.6	+1.1	58.0	+1.1	[a]63.0	−0.3	74.2	+1.5	[a]78.6	+2.3	[a]76.7	+0.6	[e]72.3	+2.9	[a]61.4	+3.4	[b]45.3	−1.2	34.2	−1.6	57.3	+1.3
Bolivar	36.2	+1.6	37.4	+3.3	49.0	+3.0	57.6	+1.5	63.1	−1.9	75.0	+2.3	79.5	+2.4	77.4	+0.3	72.4	+2.9	60.0	+1.7	44.9	−1.7	33.1	−2.6	57.1	+1.1
Cassville	36.7	+3.1	39.0	+0.6	49.7	+4.1	57.8	+2.0	.....	.....	73.2	+0.7	76.5	−0.1	75.7	+0.1	68.9	+0.1	63.2	+4.9	45.5	−1.7	.....	.....	.....	.....
Dean	36.6	−0.3	38.6	+4.8	50.4	+1.4	58.6	+1.3	[a]63.4	−2.5	[a]74.1	+1.1	[b]78.0	+0.4	[a]77.4	−0.1	[a]70.6	−0.1	....	.....	.....	.....	35.2	−2.2	.....	.....
Eldon	[d]32.0	−0.2	33.5	+1.8	46.0	+2.6	53.2	−2.5	57.2	−7.7	69.2	−4.2	78.0	+1.0	76.4	−0.2	[b]69.0	−0.4	56.9	−0.9	41.8	−3.8	28.6	−5.8	53.5	−1.7
Farmington	37.6	+5.1	36.9	+1.3	49.2	+2.3	58.4	+1.1	64.4	+0.7	77.4	+5.4	80.5	+5.9	76.8	+1.9	72.6	+3.9	61.4	+6.0	44.5	0.0	32.2	−5.4	57.7	+2.4
Gano	35.9	+1.9	35.4	+1.0	47.2	+0.5	57.0	+1.2	61.6	−4.0	73.7	+0.8	77.7	+0.8	76.1	−0.4	70.4	+1.0	60.4	+2.7	43.4	−4.0	32.2	−3.0	55.9	−0.1
Goodland	35.9	+3.0	36.1	+3.8	46.0	+1.4	56.4	+1.8	62.0	−2.6	73.6	+1.5	76.6	+1.0	74.4	−0.2	69.3	+2.1	[e]61.6	+6.1	44.4	−0.3	32.4	−2.0	55.7	+1.3
Hollister	36.6	+0.3	33.2	−4.7	50.4	+1.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	74.0	+2.5	63.8	+3.6	47.4	−1.0	38.1	−1.5	.....	.....
Houston	37.8	+5.2	[a]37.4	+5.2	[c]49.4	+3.3	57.5	+1.7	63.0	−1.9	74.2	+2.0	77.8	+1.8	.....	.....	[f]71.6	+3.1	62.3	+5.2	45.9	−0.7	35.4	−0.5	.....	.....
Koshkonong	39.6	+2.6	39.4	+2.8	50.2	+0.8	59.0	+1.2	64.3	−2.6	75.6	+1.3	[b]79.8	+1.6	78.7	+0.9	74.2	+3.5	[c]64.0	+4.3	[b]46.8	−3.0	36.6	−0.9	59.0	+1.0
Lebanon	34.3	+0.7	33.1	−0.5	45.6	+0.1	54.3	−1.6	60.6	−5.2	71.1	−2.2	75.8	−1.2	75.0	−1.5	69.2	−0.3	57.5	−0.5	42.6	−3.7	31.4	−3.6	54.2	−1.6
Lockwood	36.8	+2.7	37.0	+2.0	49.7	+1.9	57.0	+0.8	63.3	−1.3	74.3	+0.1	[b]79.4	+1.9	78.2	+0.8	73.5	+2.4	61.0	+2.8	45.2	−3.0	33.4	−2.1	57.4	+0.8
Mountain Grove	36.9	+2.9	34.6	+1.1	46.2	0.0	53.6	−0.8	60.8	−3.4	72.6	+1.0	76.6	+0.6	74.6	−0.8	70.7	+2.4	59.1	+1.8	43.7	−3.4	32.0	−0.8	55.1	−0.1
Neosho	37.2	+1.8	38.3	+2.0	49.9	+1.8	58.4	+0.4	63.5	−2.7	74.2	+0.3	78.2	+0.6	77.8	+0.8	71.5	+1.3	61.2	+2.1	46.0	−1.3	35.8	−0.8	57.7	+0.5
Rolla	37.7	+6.2	37.6	+2.2	48.8	+4.5	58.3	+3.3	63.0	−1.6	75.3	+2.6	79.2	+1.9	77.9	+2.1	71.7	+4.1	59.9	+4.6	44.4	−0.6	33.4	+0.1	57.3	+2.4
Springfield	36.6	+5.3	35.8	+2.2	48.4	+4.9	56.4	+0.7	62.0	−2.6	73.6	+1.3	78.6	+2.2	77.2	+2.4	72.6	+4.7	59.9	+2.6	44.4	0.0	32.6	−2.9	56.5	+1.7
Southwest Plain.																										
Amoret	33.3	+1.9	35.6	+2.1	46.8	+3.4	51.8	0.0	62.4	−1.2	73.9	+0.3	80.0	+2.6	76.4	−0.3	71.6	+3.2	57.1	+0.2	42.0	−4.2	27.2	−5.5	55.1	+0.2
Appleton City	34.7	+2.9	37.0	+5.3	48.2	+3.8	57.0	+1.1	63.8	−1.4	[a]75.2	+0.3	80.2	+2.0	.....	.....	.....	.....	.....	.....	.....	.....	[b]30.0	−4.4	.....	.....
Clinton	[a]35.0	+3.3	35.7	+4.3	48.1	+4.1	55.6	−0.2	62.8	−2.5	75.7	+2.4	80.3	+2.9	77.1	+0.2	72.6	+2.6	59.7	+1.3	[b]46.5	−1.0	29.8	−4.6	56.6	+1.1
Harrisonville	[g]28.3	.....	30.7	+1.2	.....	.....	52.2	−1.8	61.6	−2.4	74.0	+0.6	80.5	−2.7	[a]76.2	+0.4	[c]70.9	+2.6	55.0	−0.9	40.5	−2.0	26.0	−5.2	.....	.....
Lamar	35.6	+2.9	36.6	+2.5	48.6	+2.5	57.0	+0.3	63.4	−2.6	75.0	+0.6	80.0	+1.5	78.6	+1.0	73.8	+3.3	59.5	+0.7	44.5	−2.3	31.8	−3.5	57.0	+0.6
Lamonte	32.4	+3.1	35.4	+4.2	45.3	+1.7	[a]53.6	1.9	60.9	−4.1	[c]74.6	+0.2	78.4	−1.1	74.3	−2.5	70.6	+0.6	57.6	−0.3	41.6	−3.1	[a]27.8	−6.6	54.4	−0.8
Marshall	[b]31.4	+3.7	34.9	+5.9	[a]46.8	+4.6	56.0	+1.5	[d]62.8	−1.3	75.4	+2.6	[b]79.4	+2.2	[c]74.7	−1.7	[b]71.9	+3.8	[a]57.0	+0.5	40.5	−5.5	[a]27.2	−4.4	54.8	+1.0
Nevada	35.8	+4.5	38.2	+6.8	[a]49.8	+5.8	56.8	+1.7	62.6	2.1	74.3	+0.7	79.0	−1.4	76.0	−1.1	71.2	+2.5	58.6	+1.6	42.5	−2.0	30.6	−8.3	56.3	+1.1
Warrensburg	34.2	+5.3	36.1	+5.0	47.4	+3.9	57.2	+1.1	.....	.....	.....	.....	.....	.....	.....	.....	74.0	+4.0	[a]57.6	−0.5	.....	.....	.....	.....	.....	.....
Warsaw	35.0	+1.2	37.0	+3.7	47.8	+0.9	57.2	+1.2	63.6	−2.3	75.3	+1.6	79.2	+0.9	76.5	−1.2	71.0	+1.1	59.5	+0.6	43.6	−4.3	31.6	−3.1	56.4	0.0
Northwest Plateau.																										
Avalon	31.2	+2.6	33.9	+5.1	44.4	+3.1	54.2	+0.5	63.0	−0.2	76.6	+3.5	81.4	+2.5	74.2	−2.4	71.6	+2.0	58.5	0.0	40.7	−3.1	25.2	−7.2	54.6	+0.5
Bethany	28.6	+3.9	32.3	+6.1	42.0	+3.1	52.6	+1.4	61.0	−1.4	75.0	+3.1	79.6	+3.9	74.7	0.0	70.3	+3.6	55.4	+1.1	38.4	−5.0	20.6	−10.3	52.5	+0.8
Chillicothe	31.8	+1.8	35.2	+3.4	45.4	+5.0	53.0	−1.5	60.8	−0.3	75.9	+2.1	80.6	−1.2	[a]74.8	−1.1	[a]70.2	−0.2	58.3	.....	.....	.....	.....	.....	.....	.....
Conception	29.4	+4.6	30.8	+4.4	42.2	+3.8	51.2	−1.1	60.4	−1.3	74.1	+3.3	80.4	+4.5	74.2	+0.1	71.2	+4.2	54.1	−1.3	38.4	−3.0	20.4	−9.3	52.3	+0.7
Edgerton	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	39.8	.....	[d]22.8	.....	.....	.....
Grant City	30.0	+5.4	31.6	+5.0	42.0	+2.1	50.8	−1.5	59.9	−2.2	74.3	+3.4	79.2	+3.6	72.6	−2.4	71.0	+4.0	54.6	−0.6	38.6	−4.2	[a]20.4	−7.6	52.1	+0.4
Kansas City	34.4	+8.2	34.2	+4.3	45.3	+4.5	54.4	+0.1	62.8	−1.7	75.2	+2.2	81.8	+4.2	76.6	+0.8	72.4	+4.9	56.6	+0.8	41.3	−0.2	25.9	−5.6	55.1	+1.9
Kidder	33.8	+7.3	36.0	+9.3	44.8	+4.4	51.2	−1.7	60.6	−1.4	73.4	+1.3	79.0	+2.3	74.2	−1.3	69.4	+1.9	53.7	−2.5	37.6	−4.7	22.6	−6.9	53.0	+0.7
Lexington	32.6	+5.1	34.2	+5.2	45.8	+3.0	55.3	+1.0	62.8	−1.7	75.7	+3.0	80.2	+3.1	76.0	−0.1	71.8	+3.4	56.4	−1.1	40.8	−3.4	26.0	−5.6	54.8	+1.0
Liberty	32.4	+3.6	36.0	+6.6	46.0	+3.9	56.8	+1.3	65.3	+0.6	76.4	+2.7	82.0	+4.3	.....	.....	.....	.....	[b]56.2	−1.2	41.3	−2.4	25.1	−6.8	.....	.....
Maryville	27.2	+5.0	27.6	+4.3	38.8	+2.5	47.6	−3.0	58.6	−2.4	72.0	+3.1	77.6	+2.1	72.0	−1.7	67.4	+2.0	50.3	−2.9	34.7	−4.3	17.4	−8.9	49.3	−0.4
Oregon	29.2	+5.4	30.7	+2.7	41.6	+2.7	50.8	−1.9	60.6	−2.7	72.9	+0.6	78.8	+3.4	72.6	−2.5	68.7	+1.6	52.6	−2.3	37.8	−2.4	20.9	−7.6	51.4	−0.2
St. Joseph	31.8	.....	32.6	.....	43.4	+1.1	53.2	−0.6	62.8	−1.7	75.0	+1.1	81.1	+1.9	75.4	−2.0	71.2	+2.5	54.4	−1.9	39.6	−4.8	22.8	−7.1	53.6	.....
Tarkio	29.7	+7.7	31.0	+4.2	42.8	+4.6	51.4	−1.5	61.2	−2.4	73.4	+0.6	79.9	+3.1	74.6	−1.3	70.8	+4.6	52.9	−2.6	38.5	−1.6	19.3	−5.9	52.1	+0.7
Trenton	29.0	+2.0	31.9	+4.2	42.5	+2.3	52.1	−1.1	61.4	−2.5	74.9	+2.5	79.6	+3.1	74.3	−0.8	69.8	+2.3	55.0	−1.5	38.7	−3.9	22.4	−7.4	52.6	−0.1

Letters of alphabet indicate number of days missing from report: thus [a] one day; [b] two days, etc.

Monthly Maximum Temperatures for the Year 1919, with Dates.

Stations	January		February		March		April		May		June		July		August		September		October		November		December	
	Maximum	Date	Maximum	Date	Maximum	Date	Maximum	Date	Maximum	Date	Maximum	Date	Maximum	Date	Maximum	Date	Maximum	Date	Maximum	Date	Maximum	Date	Maximum	Date
Northeast Plain.																								
Brunswick	63	29	68	11	74	15†	83	22	89	16	96	24	100	28†	101	6	100	10	90	1†	67	23	58	30
Clifton Hill	61	24	60	11	75	20	82	22	90	30	96	25	103	25	100	3	97	10	89	2†	69	3	50	18†
Columbia	63	24	63	12	73	20	82	22	87	30	91	24	97	31	102	6	96	10	88	2	64	23	59	30
Fayette	58	24†	57	11	70	15†	78	6	85	30	94	25	99	31	...	...	96	10	87	2†	63	23	55	30
Fulton	64	29†	63	12	75	20	83	22	88	30	93	25	...	...	103	6	94	9†	90	1†	68	3	59	30
Hannibal	61	29	60	11	73	20	81	6	87	30	94	17	98	31	99	6	95	10	87	1	62	23	54	30
Jefferson City	62	24†	64	12	74	20†	84	22	86	30	94	25	100	31	102	6	98	10	88	1†	65	3	59	30
Kirksville	59	29	63	11	69	15†	77	6	84	30	90	18†	99	29	98	6	92	9	86	2	63	17†	48	29†
Louisiana	58	24	66	12	74	20	82	6	85	30†	93	24†	100	28†	100	6	98	10	88	1	66	1†	52	31
Macon	59	29	61	11	75	20	84	23	88	30	94	17†	98	28†	99	6	94	10	86	1†	63	23	50	30
Mexico	63	29	61	11†	76	20	85	22	89	30	98	24	101	28†	101	6	99	10	89	1	64	23	55	30
Oakfield	64	21†	62	11	74	20	83	14	86	4	94	25	100	25†	105	6	101	10	92	1	70	3	62	30
Palmyra	58	24†	58	11†	71	22†	...	...	...	...	...	...	...	...	103	6	96	4†	89	1	62	17†	50	30
St. Catherine	60	20	61	11	70	29	81	22	83	30	93	24	99	29†	94	4	94	10	92	2	65	23	53	30
St. Charles	64	18	63	11	76	20	83	6†	90	30	95	18	102	30	104	6	100	10	89	1	70	3	70	30
St. Louis (1)	62	20	59	11	73	29	82	22	88	30	92	25	99	31	102	6	96	10	89	1	68	3	56	12
St. Louis (2)	62	29	59	11	72	29	83	14	86	29†	92	16†	98	31	101	6	96	10	89	1	68	3	55	12
Steffenville	61	24	60	11	73	29	83	6	88	30	98	25	104	28	103	6	100	10	95	2	65	23	56	30
Unionville	60	29	63	11	68	29	77	6	88	30	93	26	99	29†	100	6	94	9	88	2	60	23	52	30
Warrenton	64	24	60	11	76	20	84	22	88	30	95	25	100	31	104	6	99	10	87	1	63	9	58	30
Keokuk, Iowa	60	24	62	11	71	29	77	5	88	30	93	19	100	31	97	4	94	9	87	1	60	10	50	30
Southeast Lowlands.																								
Caruthersville	69	30†	71	1	80	20	92	22	92	29	101	16†	105	4†	106	6†	104	10	98	1	73	17†	70	31
Doniphan	62	29	61	12	75	30	88	23	84	29†	94	16	100	31	102	6	97	10	88	1	72	23	63	6
Jackson	65	19†	65	11	77	20	94	24	90	29	94	9†	101	28	102	6	101	10	92	1	73	23	65	31
Marble Hill	70	12	68	1	79	30	94	11†	90	1	...	...	...	...	...	...	...	...	...	...	...	...	70	7†
Poplar Bluff	65	19	65	1	90	21	89	22	87	30	95	15†	99	28†	100	6	100	10	92	1	73	23	69	31
Cairo, Ill.	63	20	60	12	72	4	84	23	86	29	93	17	95	30	98	6	95	10	88	1	67	23	63	31
Ozark Plateau.																								
Arcadia	65	19†	64	11	78	20	87	22	83	4†	96	25	99	24	104	6	98	10	87	1	73	23	63	30
Aurora	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	70	23	70	30
Birchtree	65	19†	62	1	76	20	86	22†	83	4†	92	16†	98	27†	98	6†	98	10	89	1†	73	23	63	30†
Bolivar	65	30	63	1	75	20†	87	22	86	29	95	17	101	25	100	6	102	10	91	1†	70	3†	65	30
Cassville	67	18	71	12	75	20	86	21	...	...	91	25	96	11†	99	25	101	3	96	3	74	6	...	...
Dean	65	19†	66	11†	77	20	87	22	85	31	98	10	97	11	100	6	96	10	81	3	72	23	72	30
Eldon	64	29	60	11	75	19†	85	22	81	6	90	25	99	28†	100	4†	96	11	88	2	69	3	62	30
Farmington	66	19	63	11	77	20	84	14†	93	29	96	12	101	12†	102	6	99	10	90	2	69	23	59	30
Gano	61	20†	63	1	76	20	83	14	88	4	91	16†	99	25	103	6	96	10	89	1	70	23	62	30
Goodland	66	19	64	11	77	20	85	22	85	4	91	16†	97	24†	100	6	98	10	88	1	73	23	62	30†
Hollister	64	30	58	12	82	23	...	...	...	...	...	...	...	...	...	...	102	10	91	1	78	10	74	30†
Houston	65	30	63	1†	77	20	85	22	84	4	92	16†	95	24†	...	...	95	10	86	1	71	23	65	30
Koshkonong	66	19	65	1	76	20	87	22†	84	6†	93	18	90	25	99	6	98	10	90	1	72	23	66	30
Lebanon	65	30	62	1†	78	20	86	22	85	29	90	16†	97	25	97	6†	91	10	87	2	70	23	65	30
Lockwood	62	18†	64	23	75	20	86	22	83	30	91	18†	97	11	100	5	97	10	89	1	69	23	68	30
Mountain Grove	64	30	64	1	75	20	85	22	83	4	91	16	94	24†	95	13	97	10	86	1†	65	23	61	30
Neosho	65	9	65	24	74	20	85	22†	85	30†	92	25	96	11†	99	6	95	10	87	1	71	24	71	30
Rolla	64	19†	64	12	77	20	87	22	86	29	90	17†	98	24†	99	6	96	12	90	1	72	3	64	30
Springfield	62	19	63	24	73	20	84	22	81	29	89	25	94	11	97	6	95	10	85	1	68	23	66	30
Southwest Plain.																								
Amoret	63	29	60	1†	75	20†	85	22	81	29†	96	25	102	11	100	3†	99	10	91	2	71	23	63	29
Appleton City	62	29	62	1†	76	20†	85	23	85	29†	93	25	96	29	...	...	...	...	...	...	...	...	64	30
Clinton	62	29†	64	12	77	20†	87	22	86	31	96	18	99	29	100	6	99	10	91	1†	72	23	66	30
Harrisonville	62	29	58	1	...	...	84	22	86	29	98	25	101	25†	101	3	100	10	90	2	71	23	62	30
Lamar	62	19†	68	12	77	20†	87	22	85	30†	94	18	100	11	102	6	100	10	91	1	73	23	70	30
Lamonte	61	31	61	12	76	20	82	6†	85	29	96	25	98	31	98	6	98	10	90	1	68	24	61	30
Marshall	59	29	59	11	74	15	84	22	86	29	96	25	98	31	100	4†	98	10	88	2†	66	23	57	30
Nevada	61	29	63	12	75	15†	83	22	83	30†	91	17†	95	11	96	24	96	10	90	1	65	24	65	30
Warrensburg	63	29	62	12	71	20	81	6	...	...	...	...	...	...	...	...	90	5†	83	5	...	...	...	...
Warsaw	65	29	64	12	78	20	88	22	86	29	94	25	100	25†	100	4†	99	10	90	1†	70	23	67	30
Northwest Plateau.																								
Avalon	61	29	64	11	71	29	81	22	85	29†	98	25	103	31	99	3†	100	10	90	2	66	23	56	30
Bethany	67	18	60	11	67	19	82	22	87	30	95	25	102	31	101	6	95	9	87	1†	60	2†	54	30
Chillicothe	61	29	65	11	74	29	84	22	87	30	93	24†	104	31	103	6	98	10	92	1†	...	...	...	...
Conception	61	29	62	11	69	29	79	22	86	30	96	24	102	31	102	6	97	9	88	1†	62	24	50	30
Edgerton	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	67	23	60	30
Grant City	60	24	63	11	69	29	76	6†	86	30	93	17	100	30†	103	6	97	9	87	1†	62	23	53	30
Kansas City	63	29	61	11	70	15	85	22	84	31	97	25	98	31	100	6	96	10	90	2	66	23	61	30
Kidder	69	24†	68	2	74	14	81	22	84	31	93	24	98	31	99	6	96	10	88	2	63	24	57	30
Lexington	62	29	61	11	73	20†	85	22	86	29†	97	24†	100	31	100	6	96	10	90	1†	68	23	60	30
Liberty	62	29	64	11	72	28†	88	22	89	31	97	24†	103	31	...	...	...	...	89	3†	68	23	61	30
Maryville	59	24†	62	11	69	29	78	22	86	28	96	25	98	12	101	6	95	9	87	1	61	24	56	30
Oregon	59	29	58	11	68	29	79	22	85	30	95	24†	98	27	98	6	94	9	86	1	63	24	53	30
St. Joseph	61	29	61	11	70	29	83	22	85	30	96	24	100	31	100	6	94	9	89	2	65	24	59	30
Tarkio	63	29	62	11	72	29	79	22	87	29	95	25†	99	30†	101	6	96	9	88	1	64	1	55	30
Trenton	56	29	58	11†	69	29	70	22	86	30	92	27	97	31	97	6	90	9†	85	2	61	23	50	30

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† Also on other dates.

Monthly Mean Temperatures by Sections for the Year 1919, with Departures from the Normal.

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Northeast Plain	32.7	+4.6	34.1	+5.1	44.8	+3.4	54.2	0.0	60.9	−3.4	75.6	+2.4	79.8	+2.5	74.8	−1.1	71.2	+3.1	57.4	+1.1	40.7	−2.3	25.7	−6.0	54.4	+0.8
Southeast Lowlands	38.8	+2.3	40.7	+3.7	50.0	+1.9	60.8	+2.6	65.4	−1.9	77.9	+2.5	81.9	+3.4	78.8	+1.1	74.1	+3.2	65.1	+6.1	47.9	+0.1	35.7	−1.8	59.8	+1.9
Ozark Plateau	36.5	+2.3	36.5	+1.9	48.5	+2.2	56.8	+0.7	62.4	−2.7	73.9	+1.0	78.3	+1.6	76.7	+0.5	71.3	+2.1	60.5	+2.8	44.7	−1.7	33.5	−2.2	56.4	+0.7
Southwest Plain	34.2	+3.2	36.3	+4.4	47.7	+3.4	55.7	+0.3	62.7	−2.2	74.9	+1.1	79.7	+0.8	76.2	−0.6	71.4	+2.4	58.0	+0.4	42.7	−3.0	29.1	−4.5	55.8	+0.5
NorthwestsPlateau	30.8	+4.8	32.5	+5.1	43.4	+3.2	52.4	−0.6	61.4	−1.6	74.6	+2.3	80.2	+3.3	74.3	−1.1	70.4	+2.8	54.9	−1.3	39.0	−3.3	22.0	−6.8	52.8	+0.6
State Means	34.0	+3.6	35.3	+4.0	46.3	+2.9	55.3	+0.3	62.0	−2.5	75.0	+1.9	80.0	+2.3	75.7	−0.5	71.4	+2.7	58.4	+1.4	42.2	−2.2	28.5	−4.5	55.2	+0.8

Monthly Minimum Temperatures for the Year 1919, with Dates.

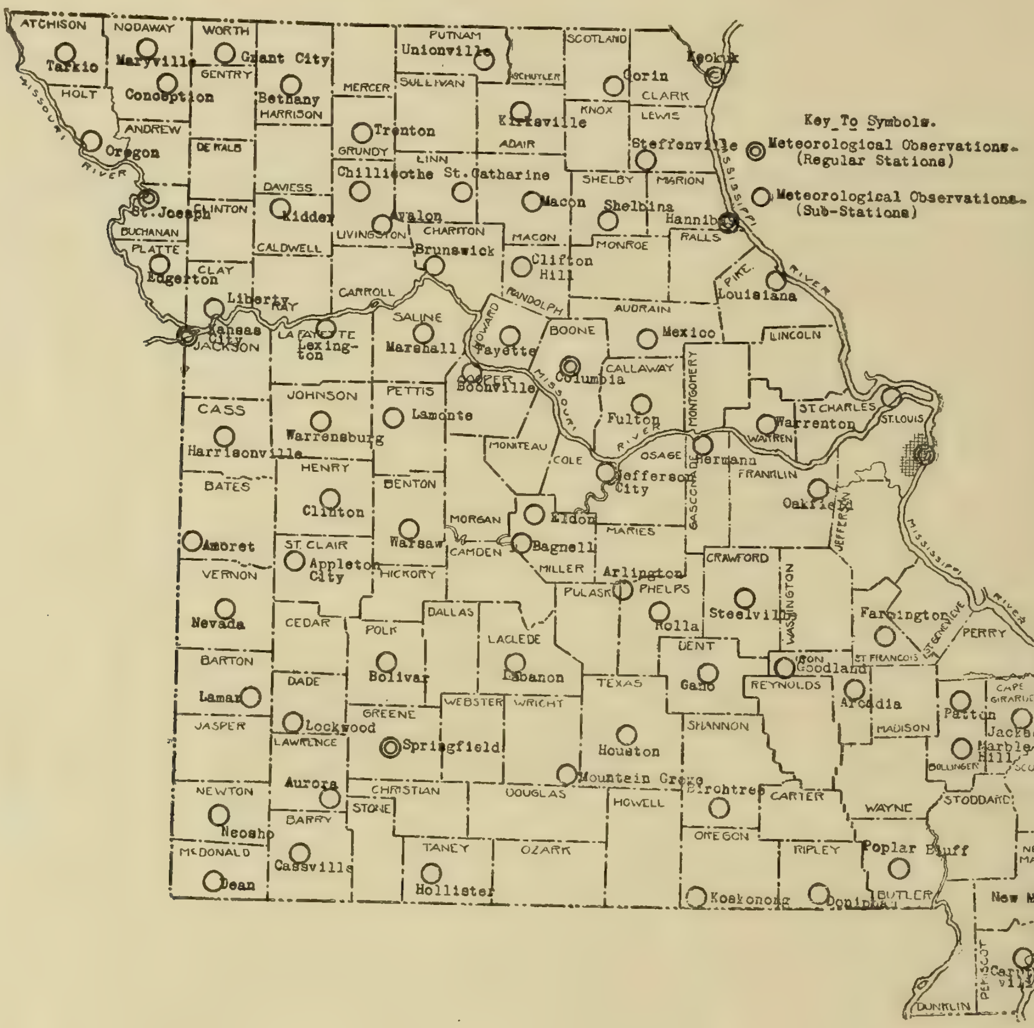
STATIONS.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	Minimum	Date	Minimum	Date	Minimum	Date	Minimum	Date	Minimum	Date	Minimum	Date	Minimum	Date	Minimum	Date	Minimum	Date	Minimum	Date	Minimum	Date	Minimum	Date
Northeast Plain.																								
Brunswick	−15	3	9	28	6	1	29	1	40	2	54	4	60	22†	53	31	46	23†	28	17†	13	30	− 9	10
Clifton Hill	−14	3	6	28	9	1	30	18	40	2	53	4	58	23	50	31	41	23	28	29	13	30	− 6	10
Columbia	−11	3	10	28	12	1	27	1	43	2	53	4	59	23	53	26	48	23	32	28	16	13	− 4	10
Fayette	−12	3	7	9	8	1	26	1	38	2	60	2†	58	22	......	......	49	1†	29	29	14	13†	− 4	10
Fulton	− 9	3	11	9†	12	1	23	1	36	2	53	4	......	......	49	26	43	26	32	17†	14	13	− 3	10†
Hannibal	−12	3	10	9	10	1	28	1	42	9	57	7	59	18	54	26	49	23	30	29	15	30	− 6	10
Jefferson City	− 9	3†	9	9	11	1	28	1	42	2	53	4	60	17†	53	27	47	27	33	28	16	13	− 1	10
Kirksville	−17	3	− 8	28	4	1	27	1	39	9	52	5	58	17	50	31	44	23	24	29	8	30	−12	10
Louisiana	− 9	3	10	9	10	1	24	1	38	2†	54	5†	50	7	48	14	42	13†	32	17	16	13	− 5	10
Macon	−12	3	6	9	5	1	27	1	39	2†	53	4†	59	16†	49	31	42	26	25	29	10	30	−11	10
Mexico	−10	3	9	9	8	1	24	1†	38	2	53	4†	58	23†	50	31	45	26	30	29	14	13†	− 5	10
Oakfield	− 7	3	11	9	11	1	27	1	43	17	56	4	63	17	54	26	47	26	35	28	15	13	− 3	10
Palmyra	−13	3†	11	26	9	1	......	......	......	......	......	......	......	......	51	31	47	1†	21	29	14	13†	− 9	10
St. Catherine	−20	3	4	28	3	1	26	1	37	2	52	5	58	22	47	31	41	15	23	29	7	30	−11	10
St. Charles	− 5	3†	13	9	13	1	25	1	45	2†	57	6	62	7†	54	26	52	12†	36	28	17	13	− 2	10
St. Louis (1)	− 3	3	16	9	16	1	32	1	46	9	60	5	66	7	58	31	50	26	39	28	20	13	1	10
St. Louis (2)	− 4	3	15	9	15	1	31	1	46	9	60	6	66	7†	58	31	51	26	38	28	20	30	1	10
Steffenville	−17	3	8	28	7	1	25	1	39	20	54	7	55	16	49	31	44	26	25	29	11	13	− 9	2†
Unionville	−20	3	2	28	−2	1	27	1	38	2†	50	5	54	16	46	31	42	12†	20	29	6	30	−14	10
Warrenton	− 9	3†	10	9	10	1	26	1	43	10†	55	4†	57	5	52	31	44	26	33	29	15	13	− 3	10
Keokuk, Iowa	−18	3	6	28	8	1	31	1	42	9	56	28	62	7	53	31	47	26	29	29	13	30	− 8	20
Southeast Lowlands.																								
Caruthersville	6	4	18	9	21	1	33	1†	47	21	59	5	65	17	62	17	51	24	44	18†	24	14	12	10†
Doniphan	3	4	8	10	16	1	28	1	45	11†	53	4	56	18	57	11	46	21†	36	18	19	14	6	10
Jackson	2	4	12	10	16	1	25	1	39	2	51	6	53	15†	52	11†	43	21	33	18	19	14	5	10
Marble Hill	1	4	12	9	15	1	25	1	35	9	......	......	......	......	......	......	......	......	......	......	......	......	4	10
Poplar Bluff	4	4	14	9	16	1	23	1	42	2	55	5	59	17†	58	10†	46	24	32	18	19	13	6	10
Cairo, Ill.	4	4	18	9	20	1	31	1	47	9	62	7	65	17	61	28	52	24	44	18	23	13	8	10
Ozark Plateau.																								
Arcadia	− 3	4	6	10	13	1	22	1	39	2	54	6	52	18	51	10†	43	24†	30	18†	17	13	1	10
Aurora	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	16	13	1	10
Birchtree	− 3	4	4	10	11	1	24	1	41	2	49	4	58	18	56	21†	45	24	35	18	15	13	1	10
Bolivar	− 7	3	4	9	12	1	28	18†	40	17	48	4	52	23	51	31	39	13	31	17	14	13	− 2	10
Cassville	− 4	3	− 2	10	14	1	26	18	......	......	44	4	52	18†	41	30†	38	11†	35	18	14	13	......	......
Dean	− 3	3	− 8	9	13	1	23	11	40	21	48	4	55	23	56	19	42	13†	30	29	14	13	1	14
Eldon	−11	3	4	9	9	1	22	1	38	2	47	4	56	17†	48	31	42	26	29	28	11	12	− 6	10
Farmington	− 4	3	10	9	13	1	26	1	45	9†	57	5†	58	17†	54	25†	46	24	34	18	17	13	0	10
Gano	− 8	3	2	9	8	1	22	1	40	2	48	4	55	17	51	31	44	26	30	18	11	13	− 4	10
Goodland	− 4	3	2	9†	10	1	20	1	37	2†	50	6	52	18	50	26†	40	24	29	18	15	13†	0	10
Hollister	0	3	0	9	20	1	......	......	......	......	......	......	......	......	......	......	45	13†	36	18	15	13	4	10
Houston	− 4	3	2	10	11	1	24	1	42	2†	50	4	58	23	......	......	43	13	33	18	15	13	1	10
Koshkonong	0	4	8	9	14	1	28	1	45	21	51	5	60	18	59	26	50	12	37	18	17	13	4	10
Lebanon	− 8	3	− 2	9	9	1	28	1†	40	3	49	4†	55	19†	52	31	41	13†	33	17†	13	13	− 3	10†
Lockwood	− 7	3†	4	9	13	1	29	1	43	17†	48	4	59	19†	53	31	45	13	33	17†	15	13	− 1	10
Mountain Grove	− 7	4	5	9	10	1	26	1	41	21	47	4	55	19	54	31	43	13	35	28	15	13	− 1	10
Neosho	− 5	3	−10	9	15	1	29	1†	39	2	46	4	52	23	53	19†	41	13†	35	18†	14	13	2	10
Rolla	− 8	3	3	9	11	1	25	1	41	2	51	4	56	18	52	28	45	3	34	28†	15	13	− 2	10
Springfield	− 6	3	5	9	14	1	30	1	44	21	50	4	63	18	57	31	52	22	35	17	17	13	0	10
Southwest Plain.																								
Amoret	−13	3	3	28	7	1	28	1	40	2	46	4	57	19	51	31	45	23†	24	17	11	30	− 8	10
Appleton City	−10	3	6	9†	12	1†	30	1	44	2	49	4	62	19	......	......	......	......	......	......	......	......	− 3	10
Clinton	−10	3	5	9	13	1	27	1	40	2†	49	4	57	23	50	26†	41	24	29	19	15	13	− 2	10
Harrisonville	−16	3	9	10	......	......	28	1	40	2	49	4	56	23	53	31	46	24	24	28	11	30	− 8	10
Lamar	− 8	3	3	9	6	1	31	1†	42	2†	47	4	56	23	52	31	45	24	31	28	14	13	− 1	10
Lamonte	−12	3	4	9†	8	1	25	1	40	1†	51	4	54	23	49	31	44	12†	27	17	13	13	− 5	10
Marshall	−13	3	5	28	8	1	26	1	41	11†	50	4	60	18	52	31	45	24	28	17	12	13	− 5	10
Nevada	− 9	3	6	28	14	1	30	1	44	2†	48	4	58	23	52	18†	48	13†	29	17	14	13	− 1	10
Warrensburg	−12	3	6	28	9	1	27	1	......	......	......	......	......	......	......	......	57	29	26	28	......	......	......	......
Warsaw	−10	3	− 5	9	10	1	24	1	38	2	48	4	52	23	49	31	42	24	30	17†	13	13	− 2	10
Northwest Plateau.																								
Avalon	−12	3	10	25†	8	1	28	1†	42	2	52	4	60	17†	52	31	47	26	26	26	10	30	− 8	10
Bethany	−19	2†	2	28	1	1	25	1	36	2	51	5	56	22	44	31	41	23	20	28†	5	30	−20	10
Chillicothe	−18	3	4	28	3	1	26	1	40	2	51	4†	53	17	46	31	43	23	24	28	......	......	......	......
Conception	−21	3	− 1	28	3	1	29	1	40	11	50	2†	61	18†	52	31	46	23	19	28	5	30	−18	10
Edgerton	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	9	30	−12	10
Grant City	−19	3	0	28	3	1	28	1	40	2	51	2†	61	18†	51	31	45	23	19	28	5	30	−20	10
Kansas City	−13	3	3	28	9	1	34	1	45	9	50	4	66	22	57	31	51	23	28	28	13	30	− 5	10
Kidder	−18	3	2	28	6	1	28	1	40	9	50	5	58	22	53	31	47	23†	23	28†	8	30	−11	10
Lexington	−15	3	7	28	4	1	27	1	40	2	50	4	59	22	54	26	48	12†	27	29	12	30	− 7	10
Liberty	−16	3	4	28	2	1	28	1	41	2†	52	5†	61	22†	......	......	......	......	25	28	7	30	−10	10
Maryville	−23	4	− 1	28	−2	1	27	1†	38	2†	48	3†	57	22	47	31	41	23†	17	29	2	30	−21	10†
Oregon	−20	3	− 2	28	2	1	28	1	38	5	47	2	56	22	48	31	42	23	18	28	4	30	−19	10
St. Joseph	−16	3	2	28	8	1	33	1†	43	5	51	2	61	24	52	31	49	23	24	28	9	30	−11	10
Tarkio	−19	3	0	28	5	1	29	1	38	5	49	2	55	22	48	21	45	23	18	28	4	30	−22	10
Trenton	−17	3	3	28	2	1	30	1	42	2	51	29	61	22	50	31	46	23	24	28	9	30	−12	10

† Also on other dates.

Monthly Precipitation by Sections for the Year 1919, with Departures from the Normal.

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Northeast Plain	0.14	−2.02	1.76	−0.37	1.70	−1.14	2.40	−1.05	6.33	+1.54	4.36	−0.22	2.43	−1.55	4.64	+1.42	4.31	+0.47	5.32	+2.94	2.95	+0.80	0.57	−1.27	36.92	+0.45
Southeast Lowlands	1.24	−2.56	1.69	−1.87	5.33	+1.21	3.25	−0.19	4.86	+0.64	5.87	−1.73	1.50	−2.35	4.80	+0.99	3.32	+0.09	7.63	+4.86	6.44	+3.44	1.10	−2.10	48.41	+3.89
Ozark Plateau	0.32	−2.31	2.07	−0.53	1.99	−1.61	2.75	−1.61	5.89	+0.81	5.89	+1.22	2.01	−2.16	2.96	−1.04	2.41	−1.44	10.77	+8.01	4.48	+1.95	0.63	−1.86	42.16	−0.57
Southwest Plain	0.37	−1.59	2.30	−0.03	1.39	−1.41	3.56	−0.30	5.77	+0.56	6.72	+1.99	1.73	−2.47	6.17	+2.23	1.95	−2.30	6.31	+3.41	2.41	+0.42	0.68	−1.19	40.83	−0.68
Northwest Plateau	0.18	−1.20	2.30	+0.71	2.80	+0.36	4.08	+1.04	5.11	−0.04	6.28	+1.68	3.54	−0.85	3.44	−0.48	4.13	−0.04	1.90	−0.90	3.01	+1.31	0.28	−0.97	37.82	+0.62
State Means	0.49	−1.88	1.98	−0.35	2.40	−0.69	3.01	−0.64	5.80	+0.87	5.59	+1.11	2.33	−1.37	4.29	+0.49	3.29	−0.54	6.74	+3.93	3.62	+1.40	0.69	−1.50	40.05	+0.83

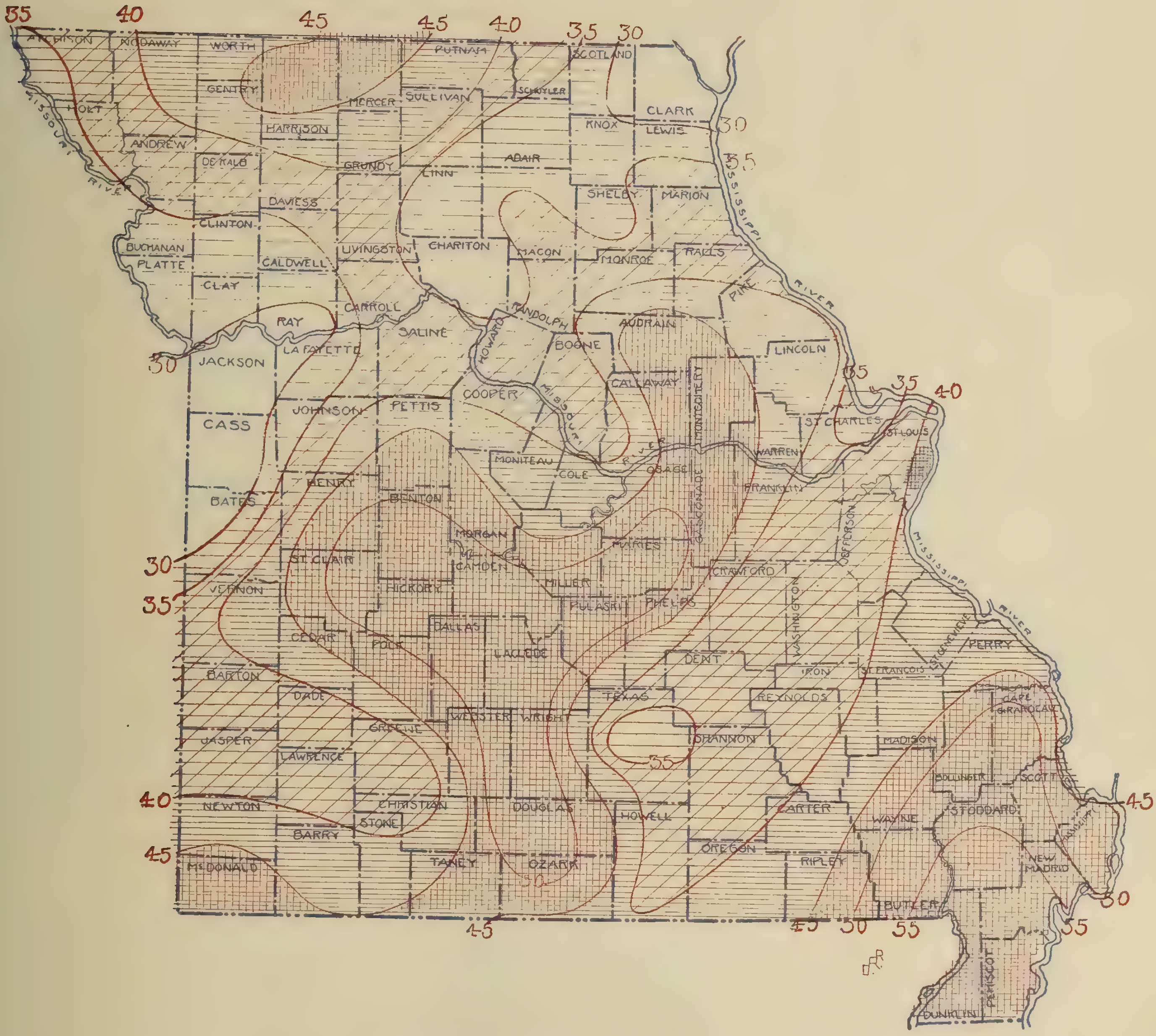
OBSERVATION STATIONS



CO-OPERATIVE OBSERVERS.

Stations.	Name.
Amoret	Darby Fruit Farm.
Appleton City	W. G. Bigelow.
Arcadia	Arcadia College.
Arlington	Wm. R. Bennett.
Aurora	C. D. Sprague.
Avalon	F. G. Ashbaugh.
Bethany	M. H. Moulton.
Birchtree	V. H. Kirkendall.
Bolivar	K. H. Brown.
Boonville	C. Randecker.
Brunswick	O. K. Benecke.
Cape Girardeau	D. L. Albert.
Caruthersville	H. E. Averill.
Cassville	R. H. Wallen.
Clifton Hill	L. S. Harlan.
Chillicothe	R. L. Isherwood.
Clinton	A. E. Derwent, M. D.
Columbia	U. S. Weather Bureau.
Conception	Fr. Adelhelm Hess.
Dean	H. E. Dean.
Doniphan	W. W. Martin.
Edgerton	H. Killingsworth.
Eldon	E. H. Shepherd.
Farmington	Robert Forsyth.
Fayette	Prof. D. R. Briggs.
Fulton	Prof. C. A. Jones.
Gano	A. C. Leach.
Glencoe	L. M Beard.
Goodland	F. M. Adams.
Gorin	J. W. Pulliam.
Grant City	W. H. Campbell.
Hannibal	U. S. Weather Bureau.
Harrisonville	John H. Patterson.
Hermann	Wm. E. Crawford.
Hollister	W. P. Chapmann.
Houston	R. F. Harmon.
Jackson	L. M. Bean.
Jefferson City	Miss Emma Swift.
Kansas City	U. S. Weather Bureau.
Kidder	J. F. Sharp.
Kirksville	Prof. Mark Burrows.
Koshkonong	R. M. Hitt.
Lamar	Joe W. Springer.
Lamonte	J. Ed. Hall.
Lebanon	Leonard E. Dickerson.
Lexington	J. W. Keithley.
Liberty	James H. Harris.
Lockwood	C. S. Crow
Louisiana	J. T. Farrell.
Macon	W. C. Brown.
Marble Hill	F. W. Welis.
Marshall	Prof. W. H. Black.
Maryville	J. R. Brink.
Mexico	Mrs. Abbie Snoddy.
Mountain Grove	Missouri Fruit Exp Station.
Neosho	U. S. Fisheries Station.
Nevada	George A. Kaupp.
New Madrid	Miss Josie Smith.
Oakfield	E. E. Steines.
Oregon	Tom Curry.
Osceola	Wm. E. Mathews.
Pacific	Mark Waters.
Palmyra	W. B. Markell.
Patton (near)	George F. Ellis.
Poplar Bluff	Miss Belle Kinne
Rolla	Prof. Elmo G. Harris.
St. Catherine	L. D. Baker.
St. Charles	L. C. Saeger.
St. Joseph	U. S. Weather Bureau.
St. Louis(1)	U. S. Weather Bureau.
St. Louis(2)	St. Louis University.
Shelbina	S. G. Parsons.
Springfield	U. S. Weather Bureau.
Steelville	A. L. Kreamelmeyer.
Steffenville	Frank Hall.
Tarkio	John F. Frazier.
Trenton	W. H. Estes.
Tuscumbia	C. B. Wright.
Union	J. Wm. Keller.
Unionville	Geo. W. Davis.
Valley Park	T. W. McNeese.
Warrenton	Prof. J. H. Frick.
Warrensburg	George H. Collins.
Warsaw	J. R. Smith, M. D.
Waverly	Miss F. N. Cauthorn.

TOTAL PRECIPITATION FOR YEAR 1919.



SCALE OF SHADES---INCHES.

□ Less than 30.

▤ 30 to 35.

▨ 35 to 40.

▤ 40 to 45.

▦ More than 45.

SUMMARY OF STORM DAMAGE FOR THE YEAR 1919.

March 14-15—Period of severe thunderstorms and excessive rain over northern sections. Caused floods in Grand, Platte and Nodaway rivers; reported damage..............$10,000

March 15—Three tornadoes in the afternoon, one in Vernon, one in St. Clair and Henry, and one in Maryville, Nodaway County. Details of the last mentioned tornado have never been published and are entered here for reference. Occurred in northern part of the town at 1:30 p. m. There was a well-defined funnel cloud; it traveled from the southwest; passed through a grove of small pines on the campus of the Normal College, leaving a path of wreckage 50 feet wide. It then touched the west corner of the auditorium, at the north side of the main building. Only the corner masonry was torn away, but the huge trussed roof of the assembly room was twisted out of shape and then dropped on the walls again. At the instant the roof was lifted the great oaken doors leading from the corridor were sucked into the room, frames and all, leaving the ragged masonry at the sides. Other doors leading from the corridor to the different class rooms were sucked into the corridors, and 50 window panes, each four feet square, were sucked into the class rooms. Glass in windows and doors were all sucked towards the corridors and down the corridors towards the assembly room. All this happened in an instant. All the skylights were sucked into the rooms. Several doors were torn away, frames and all, though only the glass was broken from glass doors. One other building was unroofed; estimated damage..$23,000

April 21—Buchanan County was visited by severe hailstorm from Halls to Gower. The path was one to three miles wide and 35 miles long. Damage chiefly to wheat, first crop alfalfa and orchards................................$45,000

April 23—Butler and Stoddard counties, from Fisk to Marco. Damage to wheat, alfalfa, gardens and fruit. One church unroofed.......................................$12,000

April 29—Boone and Callaway counties—the most destructive hailstorm in years at spots from Midway to Stephens. Damage chiefly to crops and fruit trees....................$25,000

May 15—Randolph County, near Moberly. Damage to crops...$3,000

May 15—St. Clair County, near Appleton City. Damaged roofs, glass, hay and grain crops; estimated damage....$9,000

May 17—Small tornado in northwest Harrison Co....$1,000

June 3-4—Floods in Current River; damage to wheat.$24,000

June 8—Several local severe hailstorms in Mississippi County and other southeastern counties; great damage to wheat.$100,000

June 17—St. Louis County, and City of St. Louis, scene of severe thunderstorms. Lightning caused several fires, public service properties, awnings and plate glass were damaged. Damage to crops in the county. Two persons killed by lightning..$14,000

June 19—Local thunderstorms in northern sections..$65,000

June 25-26—Local storms and high winds in northwest portion of the State; lodged much wheat in Jackson, Clay, Platte, Clinton, DeKalb and other counties; often 15 to 30 per cent loss..$125,000

July 11—Boone, Audrian and Callaway counties. High winds over portions of this area did great damage to buildings, barns, silos, windmills, trees and crops..................$175,000

KILLING FROSTS, 1919.

Stations.	Last in Spring.	First in Autumn.	Days in Growing Season.
Northeast Plain.			
Brunswick	April 26	Oct. 17	173
Clifton Hill	April 26	Oct. 17	173
Columbia	April 1	Oct. 28	210
Fayette	April 18	Oct. 28	192
Fulton	April 26	Nov. 2	188
Hannibal	April 26	Oct. 29	185
Jefferson City	April 1	Nov. 2	214
Kirksville	April 26	Oct. 17	173
Louisiana	April 26	Oct. 17	173
Macon	April 26	Oct. 17	173
Mexico	April 26	Oct. 17	173
Oakfield	April 1	Nov. 2	214
Palmyra	....	Oct. 18	....
St. Catherine	April 26	Oct. 11	167
St. Charles	April 1	Nov. 2	214
St. Louis (1)	April 1	Nov. 5	217
St. Louis (2)	April 1	Nov. 12	224
Steffenville	April 26	Oct. 17	173
Unionville	April 26	Oct. 11	167
Warrenton	April 1	Nov. 4	216
Keokuk, Iowa	April 1	Oct. 28	210
Southeast Lowlands			
Caruthersville	Mar. 7	Nov. 13	250
Doniphan	April 26	Nov. 2	188
Jackson	April 26	Nov. 2	188
Marble Hill	April 26	....	....
Poplar Bluff	April 26	Nov. 2	188
Cairo, Ill.	April 1	Nov. 13	225
Ozark Plateau.			
Arcadia	April 26	Oct. 18	174
Birchtree	April 26	Nov. 2	188
Bolivar	April 26	Oct. 17	173
Cassville	April 26	Nov. 2	188
Dean	April 18	Oct. 29	193
Eldon	April 26	Oct. 18	174
Farmington	April 26	Nov. 2	188
Gano	April 26	Oct. 18	174
Ozark Plateau (continued)			
Goodland	April 26	Oct. 18	174
Hollister	....	Nov. 2	....
Houston	April 26	Nov. 2	188
Koshkonong	April 26	Nov. 5	191
Lebanon	April 26	Nov. 1	187
Lockwood	April 26	Nov. 5	191
Mountain Grove	April 26	Nov. 2	188
Neosho	April 26	Nov. 2	188
Rolla	April 26	Nov. 2	188
Springfield	April 26	Nov. 2	188
Southwest Plain.			
Amoret	April 26	Oct. 17	173
Appleton City	April 26	....	....
Clinton	April 26	Oct. 19	175
Harrisonville	April 18	Oct. 17	173
Lamar	April 18	Oct. 28	192
Lamonte	April 26	Oct. 17	173
Marshall	April 26	Oct. 17	173
Nevada	April 26	Oct. 17	173
Warrensburg	April 11	Oct. 28	199
Warsaw	April 26	Oct. 17	173
Northwest Plateau.			
Avalon	April 26	Oct. 17	173
Bethany	April 18	Oct. 11	175
Chillicothe	April 26	Oct. 17	173
Conception	April 17	Oct. 11	176
Grant City	April 1	Oct. 11	193
Kansas City	April 1	Oct. 17	199
Kidder	April 26	Oct. 17	173
Lexington	April 1	Oct. 17	199
Liberty	April 11	Oct. 17	188
Maryville	April 24	Oct. 11	169
Oregon	April 24	Oct. 11	169
St. Joseph	April 1	Oct. 17	199
Tarkio	April 24	Oct. 11	169
Trenton	April 1	Oct. 11	193

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U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

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CLIMATOLOGICAL DATA

MISSOURI SECTION

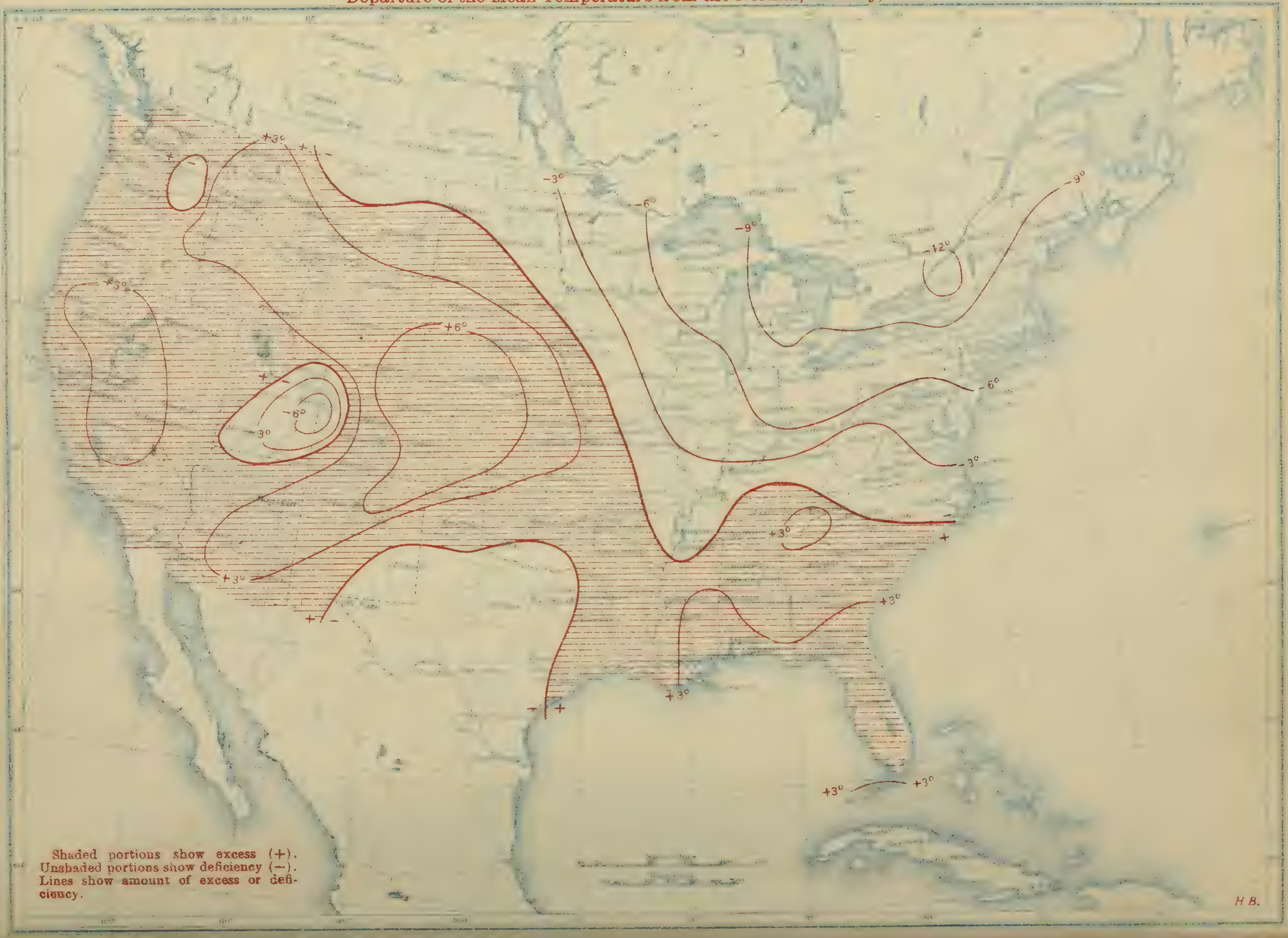
IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

JANUARY, 1920

BY
GEORGE REEDER
SECTION DIRECTOR

ST. LOUIS, MO.
WEATHER BUREAU OFFICE

Departure of the Mean Temperature from the Normal, January, 1920.



Shaded portions show excess (+).
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.
GEORGE REEDER, Meteorologist.

Vol. XXIV. Columbia, Mo., January, 1920. No. 1.

GENERAL SUMMARY.

In Missouri the meteorological elements during January, 1920, did not differ materially from their respective normal values. There were no severe cold or unusually mild periods, and, because of the uniformly low temperatures, with light precipitation and a good many bright days, the month was pleasant for mid-winter. There were several days with sleet or glaze during the first and last decades, but, except a few minor accidents to pedestrians, and temporary interruptions to the general wire service, no hardships resulted. From the physiological side probably the gloomiest days were from about the 5th to the 8th, and 22d to 24th, when rather dense cloudiness prevailed.

The winter wheat crop made little or no growth; north of the Missouri River its condition was about the average for January, but in southern sections the crop was poor and thin generally.

TEMPERATURE.

The monthly mean temperature for the State, 66 stations reporting, was 28.6°. The mean departure from the normal for 64 stations having 10 or more years' record was minus 1.4°. The temperature deficiency averaged about 1.7° in the Ozark Plateau, and 2.7° in the northeastern plain, but elsewhere the departures from normal were unimportant. There were no severe cold waves; zero conditions occurred at only 4 stations in the northeastern plain, at 1 in the southwestern plain, and at 5 stations in the northwestern plateau, generally on one day, the 25th, though some stations reported zero readings also on the 3d and 10th. The minimum was −5°, and occurred at three stations, Bethany, Unionville and Louisiana.

PRECIPITATION.

The average monthly precipitation, 82 stations reporting, was 1.57 inches. The departure from the normal for 74 stations having 10 or more years' record was minus 0.65 inch. Precipitation was slightly in excess of the normal along the southern Ozark slope, and in the southeastern lowlands, but in all other sections it was below normal, the deficiency being marked in the northeastern plain. Precipitation was more or less general over the eastern half of the State on the 2d, 6th to 9th, and 23d, and in the southeast 20th to 23d; and 5th to 9th, and 21st to 24th over the western half. There was much general cloudiness during the first and last ten days. There was general snow, though without high wind, on the 8-9th. There was some sleet damage on the 6-7th, and glaze was general on the 22-23d. Snow and glaze covered the northern portion of the State until about the 15th, and along the northern border much later. The ice layer of the 22-23d continued for several days, save in the more southern counties.

WIND.

The prevailing winds were from the north. The total number of miles, 8 stations equipped with anemometers reporting was 7402, or an average hourly movement of 10.0 miles. There were no strong winds.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well placed stations with sunshine recorders reporting, was 176, or 57 per cent of the possible, and about 6 per cent above normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense.—6th, 7th, 12th, 15th, 16th, 20th, 23d, 29th, and 30th.

Halos, solar.—10th, 20th, 25th, and 26th. *Lunar*—5th, 10th, and 26th.

Sleet.—5th, 6th, 7th, 8th, 20th, 21st, 22d, and 23d.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.25	86	......	169	56	6,211	8.3	24	sw.	12
Hannibal	30.27	81	......	......	......	6,765	9.1	28	sw.	12
Kansas City	30.26	79	67	203	67	9,213	12.4	35	n.	20
St. Joseph	30.26	82	66	181	60	6,075	8.2	30	n.	20
St. Louis	30.26	78	68	158	52	9,400	12.6	35	sw.	12
Springfield	30.21	92	78	179	58	7,781	10.5	32	w.	3
Cairo, Ill	30.25	88	71	......	......	7,762	10.4	39	n.	24
Keokuk, Iowa	30.31	76	67	161	51	6,012	8.1	32	s.	12

SUPPLEMENTAL TABLE OF DATA.

Stations.	Length of record, years.	Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
		Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Arlington	15	......	....	......	......	......	....	....	....	......	Wm. R. Bennett.
Booneville	41	0.68	−1.25	0.30	6.0	7	16	2	13	ne.	C. Randecker.
C. Girardeau	11	3.44	−0.61	1.00	0.1	8	10	2	19	n.	D. L. Albert.
Glencoe	1	2.00	....	0.65	6.5	5	17	13	11	......	L. M. Beard.
Hermann	44	0.77	−1.46	0.28	10.0	5	....	....	....	...	W. E. Crawford.
New Madrid	24	7.10	+1.77	1.90	0.0	10	7	5	19	ne.	Miss Josie Smith.
Osceola	18	0.70	−1.78	0.38	6.0	3	15	1	15	.....	Wm. E. Mathews.
Pacific	1	1.81	....	0.61	10.0	8	14	2	15	e.	Mark Waters.
Steelville	16	2.41	+0.52	0.80	12.0	5	15	0	16	n.	A. Kreamelmeyer.
Tuscumbia	1	1.06	....	0.37	7.8	5	13	6	12	sw.	C. B. Wright.
Union	1	1.66	....	0.56	11.0	9	10	4	17	nw.	J. Wm. Keller.
Valley Park	1	1.82	....	0.40	10.5	9	13	7	11	......	T. W. McNeese.
Waverly	3	0.50	....	0.24	4.5	3	17	0	14	ne.	J. W. Cauthorn.

COMPARATIVE DATA FOR JANUARY.

Year.	Temperature.				Precipitation.				Number of Days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	21.5	− 8.7	74	−32	1.91	−0.08	......	......	6	......	....	....
1889	31.8	+ 1.6	69	− 2	2.36	+0.37		.....	6	......	....	....
1890	33.8	+ 3.6	81	−19	4.25	+2.26	......	......	9	......	....	....
1891	34.1	+ 3.9	74	− 1	1.52	−0.47	......	4.3	6	......	....	....
1892	24.0	− 6.2	67	−25	1.80	−0.19	......	..	4	14	8	9
1893	22.5	− 7.7	66	−14	0.45	−1.54	0.90	2.4	3	9	11	11
1894	31.4	+ 1.2	77	−35	2.21	−0.22	2.96	2.7	5	13	9	9
1895	24.7	− 5.5	78	−22	1.49	−0.50	2.20	9.4	5	14	8	9
1896	32.9	+ 2.7	71	− 9	1.17	−0.82	2.44	3.1	4	10	7	14
1897	28.4	− 1.8	72	−16	4.90	+2.91	6.95	4.0	8	12	7	12
1898	34.3	+ 4.1	75	−10	3.98	+1.99	3.35	8.4	9	11	8	12
1899	30.2	0.0	70	−21	1.55	−0.44	2.40	4.0	6	12	8	11
1900	34.5	+ 4.3	77	− 9	1.22	−0.77	2.30	0.2	4	11	7	10
1901	35.0	+ 4.8	72	−11	1.30	−0.69	2.95	0.8	4	17	7	7
1902	30.1	− 0.1	72	−17	1.23	−0.76	3.37	6.9	5	16	7	8
1903	31.4	+ 1.2	73	−11	1.36	−0.63	1.71	5.0	6	13	6	12
1904	27.0	− 3.2	66	−23	2.85	+0.86	4.74	7.4	8	14	6	11
1905	22.3	− 7.9	72	−19	1.79	−0.20	2.52	6.8	8	14	6	11
1906	35.6	+ 5.4	76	− 8	3.64	+1.65	3.00	9.2	6	14	5	12
1907	34.3	+ 4.1	79	− 5	5.10	+3.11	4.42	2.8	12	7	6	18
1908	34.4	+ 4.2	68	−10	1.51	−0.48	2.13	3.6	5	19	5	7
1909	33.7	+ 3.5	83	−20	2.17	+0.18	2.10	6.5	7	6	7	18
1910	32.3	+ 2.1	78	−24	1.83	−0.16	3.98	3.5	5	13	6	12
1911	31.6	+ 4.4	78	−19	1.20	−0.70	3.03	0.7	5	8	7	16
1912	20.0	−11.3	70	−36	1.06	−1.20	2.56	6.5	4	14	7	10
1913	33.1	+ 1.8	74	−12	3.67	+1.30	5.30	2.6	8	13	6	12
1914	38.1	+ 6.9	78	− 1	1.42	−0.92	2.00	1.0	4	12	7	12
1915	29.1	− 2.2	76	−24	2.92	+0.59	3.10	5.4	8	12	5	14
1916	31.6	+ 0.7	72	−24	7.36	+5.16	4.65	3.4	12	9	4	18
1917	32.9	+ 2.5	76	−10	1.52	−0.64	2.50	2.3	5	15	7	9
1918	16.4	−11.0	67	−24	1.68	−0.71	3.20	16.6	7	12	7	12
1919	34.0	+ 3.6	70	−23	0.40	−1.88	3.05	1.4	2	20	5	6
1920	28.6	− 1.4	72	− 5	1.57	−0.65	4.15	5.7	5	15	5	11

Climatological data for January, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip. .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	39	25.8	−1.0	54	29†	5	3†	43	0.49	−1.28	0.30	7.0	4	19	0	12	nw	O.K. Benecke.
Clifton Hill	Randolph	731	20	26.6	−2.3	55	29†	3	3	35	0.78	−1.23	0.36	7.5	3	21	1	9	...	L. S. Harlan.
Columbia	Boone	784	30	26.9	−0.3	55	30	5	2	30	0.71	−1.52	0.39	8.4	7	15	5	11	n.	U. S. Weather Bureau.
Fayette	Howard	725	36	25.8	−1.6	53	30	3	3	32	0.84	−1.17	0.34	8.9	5	15	6	10	sw.	Prof. D. R. Briggs.
Fulton	Callaway	818	28	27.3	−2.6	60	30	− 4	3	41	0.29	−2.32	0.18	3.0	2	16	0	15	n.	Prof. Claude A. Jones.
Gorin	Scotland	700	32	......	......	......	......	......	......	......	0.21	−1.55	0.13	2.1	2	10	8	13	nw.	J. W. Puliam.
Hannibal	Marion	534	27	24.2	−2.5	48	29	4	4	28	0.96	−1.24	0.39	9.6	9	13	6	12	n.	U. S. Weather Bureau.
Jefferson City	Cole	557	31	26.4	−3.4	57	30	8	4†	39	0.78	−1.54	0.30	8.2	6	22	2	7	w.	Miss Emma Swift.
Kirksville	Adair	969	38	24.4	−0.5	53	30	1	4†	34	0.15	−1.49	0.08	1.0	3	20	3	8	n.	Prof. Mark Burrows.
Louisiana	Pike	469	39	25.0	−2.9	52	30	− 5	10	39	1.03	−1.02	0.30	8.1	8	15	8	8	n.	J. T. Farrell.
Macon	Macon	875	20	23.0	−5.7	52	29	2	25	45	0.50	−1.36	0.36	5.0	5	13	8	10	ne.	W. C. Brown.
Mexico	Audrain	797	41	23.9	−4.7	56	29	2	3	46	0.95	−1.23	0.54	10.5	4	21	1	9	n.	Mrs. Abbie Snoddy.
Oakfield ‡‡	Franklin	793	34	28.7	−3.1	60	30	3	3	34	1.96	−0.54	0.62	12.5	7	9	13	9	s.	E. E. Steines.
Palmyra	Marion	652	20	21.6	−6.8	47	30	2	4†	37	0.79	−1.86	0.55	9.0	4	13	8	10	nw.	W. B. Markell.
St. Catherine	Linn	850	8	25.1	......	52	30	2	4	27	0.26	......	0.22	0.7	3	16	6	9	s.	L. D. Baker.
St. Charles	St. Charles	456	41	28.0	−3.2	59	30	5	4	33	0.93	−1.57	0.50	5.5	4	13	6	12	nw.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	46	28.4	−2.6	55	30	5	4	26	1.85	−0.42	0.95	9.3	11	15	6	10	nw.	U. S. Weather Bureau.
St. Louis (2)	......do	578	7	28.0	−1.5	55	30	6	4	24	1.50	−2.20	0.77	14.8	9	14	4	13	nw.	St. Louis University.
Shelbina	Shelby	779	26	......	......	......	......	......	......	......	0.78	−1.12	0.40	8.8	6	......	......	......	......	S. G. Parsons.
Steffenville	Lewis	650	26	24.6	−3.8	46	26	− 2	4	31	0.72	−1.75	0.48	6.0	4	12	9	10	nw.	Frank Hall.
Unionville	Putnam	1,072	26	23.6	+0.3	52	29	− 5	25	34	0.50	−1.60	0.40	3.5	2	14	5	12	n.	Geo. W. Davis.
Warrenton	Warren	865	29	25.5	−3.7	56	30	3	3	37	1.17	−1.29	0.40	8.0	8	8	13	10	nw.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	47	22.5	−1.2	49	29	0	25	31	0.38	−1.31	0.28	3.8	3	11	8	12	n.	U. S. Weather Bureau.
Section means and	extremes	......	....	25.5	−2.7	60	30	− 5	10†	46	0.84	−1.39	0.95	7.0	5	15	6	10	nw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	28	38.8	−0.1	72	19	16	3†	38	7.46	+2.76	4.15	T.	6	16	2	13	e.	H. E. Averill.
Doniphan	Ripley	344	15	34.1	−2.1	70	20	13	3†	46	4.49	+0.09	2.00	1.0	4	20	2	9	nw.	W. W. Martin.
Jackson	Cape Girardeau	458	29	32.9	−1.0	66	20	6	5	37	2.61	−1.22	0.92	1.2	6	10	10	11	s	L. M. Bean.
Marble Hill	Bollinger	420	27	40.0	+5.5	68	20†	5	4	55	2.14	−1.53	1.00	0.1	5	15	6	10	s.	F. W. Wells.
Patton (near)	Bollinger	500	9	......	......	......	......	......	......	......	3.35	+0.10	1.35	......	6	......	......	......	......	George F. Ellis.
Poplar Bluff	Butler	339	15	......	......	......	......	9	3	....	5.20	+1.15	1.82	......	2	17	3	11	......	Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill	359	44	33.2	−1.6	66	20	13	4	35	3.48	−0.34	1.35	T.	9	8	6	17	n.	U. S. Weather Bureau.
Section means and	extremes	......	....	35.8	+0.1	72	19	5	4	55	4.10	+0.14	4.15	0.3	5	14	5	12	s.	
Ozark Plateau.																				
Arcadia	Iron	925	41	29.0	−3.1	68	30	5	4	51	3.56	+0.29	1.22	5.8	8	16	3	12	n.	Arcadia College.
Aurora	Lawrence	1,370	....	33.0	−0.5	63	30	10	12	34	2.57	+0.17	0.90	7.8	6	16	1	14	n.	C. D. Sprague.
Birchtree	Shannon	1,078	25	33.0^a	−1.4	65	19	10	3†	40	3.69	+0.56	1.35	2.0	6	19	2	10	n.	K. H. Kirkendall.
Bolivar	Polk	1,071	32	31.2	−2.7	62	30	4	10†	36	1.61	−0.33	0.55	8.5	6	13	6	12	ne.	V. H. Brown.
Cassville	Barry	1,475	20	......	......	......	......	......	......	......	......	......	......	......	....	......	......	......	......	R. H. Wallen.
Dean ‡‡	McDonald	1,000	20	32.9^b	−3.5	65	20	5	10	43	2.75	+0.45	1.35	7.0	4	14^b	1^b	14^b	......	H. E. Dean.
Eldon	Miller	934	20	28.0	−3.3	63	30	5	10	43	1.09	−0.56	0.43	9.0	4	17	4	10	n.	E. H. Shepherd.
Farmington	St. Francois	918	22	30.3	−2.2	60	20	7	4	31	2.55	+0.13	1.12	6.0	8	14	7	10	ne.	Robert Forsyth.
Gano ‡‡	Dent	1,250	18	29.5	−0.5	57	20	7	3†	35	2.53	−0.50	1.42	11.8	6	16	5	10	nw.	A. C. Leach.
Goodland	Iron	1,000	26	30.8	−1.7	66	30	2	12	47	2.00	−1.02	2.00	......	1	16	3	12	n.	F. M. Adams.
Hollister	Taney	735	15	33.6	−2.4	70	20	5	12	48	2.50	−0.26	1.60	6.0	3	19	0	12	sw.	W. P. Chapmann.
Houston	Texas	1,280	26	32.4	0.0	63	20	11	3	36	3.02	+0.39	1.35	6.5	6	13	8	10	nw.	R. F. Harmon.
Koshkonong	Oregon	958	18	35.5	−0.9	68	20	13	5	36	4.31	+0.67	1.45	T.	6	16	3	12	ne.	R. M. Hitt.
Lebanon	Laclede	1,265	33	29.4	−3.7	61	30	10	11	39	1.58	−0.98	0.53	12.0	6	15	9	7	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	23	32.0	−1.1	58	30	8	9	32	1.21	−0.53	0.33	8.0	5	16	11	4	sw.	C. S. Crow.
Mountain Grove	Wright	1,490	21	30.2	−3.0	63	20	10	10	36	2.18	−0.82	1.22	4.0	6	13	5	13	sw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	36	34.0	−1.1	64	20	5	9	39	1.99	−0.58	0.71	6.0	5	17	3	11	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,139	35	32.0	+1.0	65	30	9	4	39	1.99	−0.55	0.90	9.2	5	15	8	8	n.	Prof. Elmo G. Harris.
Springfield	Greene	1,350	31	31.4	+0.1	60	20	12	9	35	2.36	−0.30	1.06	12.8	7	19	2	10	n.	U. S. Weather Bureau.
Section means and	extremes	......	....	31.6	−1.7	70	29	2	12	51	2.42	+0.21	2.00	6.8	5	16	4	11	n.	
Southwest Plain.																				
Amoret	Bates	831	12	30.4^a	+0.2	60	20	5	9	32	0.51	−0.86	0.14	6.0	4	13^a	8^a	9^a	s.	Darby Fruit Farm.
Appleton City	St. Clair	853	27	30.6	−0.6	61	30	6	9	31	0.94	−0.98	0.71	8.6	2	15	6	10	ne.	....
Clinton	Henry	765	32	30.4	−0.9	61	30	6	9	32	1.05	−0.99	0.58	7.5	2	13	9	9	sw.	A. E. Derwent, M. D.
Harrisonville ††	Cass	912	44	28.0	+0.9	59	30	8	9	46	0.59	−1.06	0.40	5.0	2	9	8	14	n.	John H. Patterson.
Lamar	Barton	980	38	31.8	−0.5	60	30	4	9	34	2.20	+0.47	1.50	6.0	3	14	6	11	s.	Joe W. Springer.
Lamonte	Pettis	863	32	28.2^a	−0.3	60	30	3	9	37	0.70	−1.17	0.25	6.0	3	16	6	8	sw.	J. Ed. Hall.
Marshall	Saline	779	30	27.8^b	+0.4	53	29†	6	4	28	0.63	−1.28	0.37	4.0	4	18^d	3^d	6^d	nw.	Dr. W. H. Black.
Nevada	Vernon	860	27	31.2	−0.3	60	30	8	9	30	1.28	−0.79	0.83	10.0	3	14	8	9	s.	George A. Kaupp.
Warrensburg	Johnson	883	42	......	......	......	......	......	......	......	......	......	......	......	....	......	......	......	...	Geo. H. Collins.
Warsaw	Benton	715	23	30.6	−2.2	61	30	− 4	10	44	1.53	−0.96	0.65	12.2	6	14	9	8	e.	J. R. Smith, M. D.
Section means and	extremes	......	....	30.0	−0.3	61	30	− 4	10	46	1.05	−0.85	1.50	7.3	3	14	7	10	s.	
Northwest Plateau.																				
Avalon	Livingston	730	22	26.6	−2.0	53	29†	4	4	34	0.91	−1.08	0.50	5.5	3	17	3	11	nw.	F. G. Ashbaugh.
Bethany	Harrison	916	28	24.5	−0.2	56	29	− 5	25	36	0.42	−1.03	0.33	4.0	3	14	6	11	nw.	M. H. Moulton.
Chillicothe	Livingston	768	11	......	......	......	......	......	......	......	......	......	......	......	....	......	......	......	......	R. L. Isherwood.
Conception	Nodaway	982	35	24.3	−0.5	56	29	− 3	25	34	0.38	−0.67	0.28	3.5	2	12	11	8	ne.	Fr. Adelhelm Hess.
Edgerton	Platte	856	....	27.6	......	59	29	3	9	41	0.10	......	0.06	0.9	4	20	5	6	nw.	H. Killingsworth.
Gallatin	Daviess	803	17	......	......	......	......	......	......	......	......	......	......	......	....	......	......	......	......	....
Grant City	Worth	1,134	29	25.5	+0.9	55	29	− 4	24	36	0.60	−0.42	0.40	6.0	3	12	4	15	nw.	W. H. Campbell.
Kansas City	Jackson	963	30	29.2	+3.0	58	29	9	28	29	0.35	−0.78	0.31	0.4	5	18	4	9	n.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	31	24.4	−2.1	54	16	4	2†	46	0.31	−1.12	0.16	3.0	3	21	2	8	sw.	J. F. Sharp.
Lexington	Lafayette	688	36	27.8	+0.5	56	30	7	25	34	0.43	−1.19	0.30	0.8	3	20	0	11	n.	J. W. Keithley.
Liberty	Clay	864	29	27.8	−1.0	60	29	4	24	39	0.13	−1.26	0.11	0.7	3	16	7	8	n.	James H. Harris.
Maryville	Nodaway	1,036	26	21.2	−1.0	49	14	− 1	25†	45	0.35	−0.84	0.20	4.5	3	20	5	6	n.	J. R. Brink.
Oregon	Holt	1,048	63	24.9	+1.1	53	29	0	25	32	0.24	−1.24	0.19	2.1	2	14	5	12	n.	Tom Curry.
St. Joseph	Buchanan	967	45	27.2	+1.1	60	29	6	25	33	0.32	−0.79	0.24	1.7	5	16	8	7	n.	U. S. Weather Bureau.
Tarkio	Atchison	976	27	......	......	......	......	......	......	......	......	......	......	......	....	......	......	......	......	John F. Frazier.
Trenton	Grundy	822	24	25.0	−2.0	48	29	4	25	30	0.16	−1.40	0.09	2.0	3	18	4	9	s.	W. H. Estes.
Section means and	extremes	......	....	25.8	−0.2	60	29	− 5	25	46	0.36	−0.98	0.50	2.6	3	17	5	9	n.	
State means and	extremes	......	....	28.6	−1.4	72	19	− 5	10†	55	1.57	−0.65	4.15	5.7	5	15	5	11	n.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.

† Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Oakfield, Pacific, R. F. D. No. 1; of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily precipitation for January, 1920.

Stations.		Day of month.																															Total.
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‡	Missouri		.09				.07	.03		.30							.05							.15	.02								0.68
Brunswick‡	Grand		.11				.05				.03														.30								0.49
Clifton Hill	Chariton		.32				.10			.36																							6.78
Columbia***	Missouri		.07			.04	.11	T.	.31	.08						T.	T.				T.		.05	.05	T.								0.71
Fayette	do		.15				.04		.06	.34							T.							.25	T.								0.84
Fulton	do			.18												T.								.11									0.29
Glencoe‡	Meramec		.05				.35	T.	.65	.60														.35									2.00
Gorin	Mississippi		T.				.08																	.13									0.21
Hannibal***	do	.01	.02			.09	.10	.01	.24	.10							T.		T.				.04	.35	T.								0.96
Hermann‡	Missouri		.15				.28		.03	.29							T.							.02									0.77
Jefferson City‡‖	do		.02				.25	.01	.02	.30														.18	T.	T.							0.78
Kirksville	Mississippi		.03				.04																	.08									0.15
Louisiana	do		.02				.23		.14	.18						.01	.30							.05	.10								1.03
Macon‡‖	Chariton		.01				.09	.02	.02	T.														.36									0.50
Mexico‡‖	Mississippi		.07					.22		.54						T.								.12	T.								0.95
Oakfield	Meramec		.06				.27	T.	.58	.30						T.	.03				T.		.10	.62	T.								1.96
Pacific‡‖	do		.35				.23	.04	.61	.36							.05					T.	T.	.06	.11								1.81
Palmyra‡	Mississippi		.04				.10			.55							T.		T.					.10	T.								0.79
St. Catherine	Grand		.01				.03	T.													T.			.22									0.26
St. Charles	Missouri		.01				.12		.30	.50							T.				T.	T.		T.									0.93
St. Louis (1)***	Mississippi	T.	.08		T.	.02	.21	.33	.79	.02			T.			.02			T.		.02	.01	.07	.28	T.								1.85
St. Louis (2)	do		.01		T.		.13	.37	.77	.06						.02					.01		.03	.10									1.50
Shelbina	do			.02	.09		.02	.02	.40								T.							.23									0.78
Steffenville	do		.07				.14			.03														.48									0.72
Union‡‖	Meramec		.09				.23	.05	.38	.30							.02					.02	.01	.56									1.66
Unionville	Chariton	T					.10									T.								.40									0.50
Valley Park‡‖	Meramec		.20				.15	T.	.40	.30							.20					.10	.20	.22	.05								1.82
Warrenton‡	Mississippi		.05				.25	.04	.05	.34							.02					T.		.40				.02					1.17
Keokuk, Iowa***	do	.01	T.	T		T.	.09			T.						T.	T.		T.		T.		T.	.28									0.38
Southeast Lowlands.																																	
Cape Girardeau‡‖	Mississippi		T.				.08	.04	1.00	.75							.02					.22	.70	.63	T.								3.44
Caruthersville	do				T.		.15		4.15								.17				T.	.85	.96	1.18	T.			T.					7.46
Doniphan	Black						.20	.34	1.95														2.00										4.49
Jackson	Mississippi			.10			.12		.40							.32					.75		.92										2.61
Marble Hill	do		T.				T.	.15	1.00													.56	.26	.17									2.14
New Madrid‡‖	do				.01		T.	.16	1.80	1.90							.16				.01	1.05	.61	1.30	.10								7.10
Patton (near)	do							* *	1.35												* *	* *	* *	2.00									3.35
Poplar Bluff‡‖	Black						T.	.54	1.82	T.												.85	.73	1.26	T.								5.20
Cairo, Ill.***	Mississippi		T.		T.		.09	.40	1.04	T.						.08	.02				.07	.70	.29	.79	T.								3.48
Ozark Plateau.																																	
Arcadia‡	St. Francis		T.				.06	.01	1.21	.62												.24	.17	1.20	.05								3.56
Arlington‡‖	Gasconade																																......
Aurora	White					T.	.11	.58	.66	.03												.05	.24	.90									2.57
Birchtree	Black					.17		.40	.85													.40	.52	1.35									3.69
Bolivar	Osage					T.	.22	.22	.44	.15													.03	.55	T.								1.61
Cassville	White																																......
Dean	Neosho					.35	T.	.30															.75	1.35									2.75
Eldon	Osage						.15	.14	.31	.43														.06	T.								1.09
Farmington	St. Francis						.03	.14	.68	.04		.12					T.					* *	.39	1.12		.03							2.55
Gano	Meramec						.14	T.	1.14	.28												.10	.12	.75									2.53
Goodland	Black																							2.00									2.00
Hollister	White						.40															.50	1.60										2.50
Houston	Gasconade						T.	.03	.75							.82						.02	.05	1.35	T.								3.02
Koshkonong	Black						.25	.50	1.45													.23	.45	1.43	T.								4.31
Lebanon‡‖	Osage								.30	.53												T.	.45	.20	.05	.05							1.58
Lockwood	do					T.	T.	.15	.33	.18												T.	.55										1.21
Mountain Grove‡‖	White						.18		1 22	.34												.14	.18	.12									2.18
Neosho	Neosho					T.	.30	.45	.35	.18											T.		T.	.71									1.99
Rolla‡‖	Meramec						.22	T.	.90													.08	.14	.65	T.								1.99
Springfield***	White					.16	T.	.58	.72							T.		T.			.05	.03	.78	.04	T.								2.36
Steelville‡‖	Meramec						.14		.80	.65													.20	.62									2.41
Tuscumbia‡‖	Osage						25	.02	.17	.37														.35									1.06
Southwest Plain.																																	
Amoret	Osage						.08		.09	.14														.20									0.51
Appleton City	do					T.	T.			.71							T.							.23	T.								0.94
Clinton	do					.05	.32	.58																.10									1.05
Harrisonville‡‖	do						T.	T.		.40														.19									0.59
Lamar‡‖	Neosho								1.50	.50														.20									2.20
Lamonte	Missouri	T.							.22	.23							T.						.25										0.70
Marshall	do		.20				.02							.37		T.					T.			.04									0.63
Nevada	Osage					T.	T.	.12	.83	.33								T.							T.								1.28
Osceola‡‖	do							.11		.38														.21									0.70
Warrensburg	Missouri																																......
Warsaw‡‖	Osage						.15	.10	.25	.65														.28	.10	T.							1.53
Waverly‡‖	Missouri		.04				T.	T.		.22														.24									0.50
Northwest Plateau.																																	
Avalon	Grand	.26				.15																		.50									0.91
Bethany	do		.04				.05										T.							.33									0.42
Chillicothe‡‖	do																																......
Conception	Missouri					T.	T.	.10									T.							.28									0.38
Edgerton	do		.01			T.	.06										.01							.02									0.10
Gallatin	Grand															T.																	......
Grant City	do						.10	.10								T.					.40												0.60
Kansas City***	Missouri		.01			.01	.02	T.	T.							T.		T.					.05	.26	T								0.35
Kidder‡‖	Grand		.16		.03		.02	T.																.10	T.								0.31
Lexington‡‖	Missouri						.08			.05														.30									0.43
Liberty	do		.01				.01																	.11									0.13
Maryville‡‖	do		.10			T.	.05																	.20									0.35
Oregon	do		T.			T.	T.	.05	T.									T.						.19									0.24
St. Joseph***	do	T.	.01			.03	.04	T.			T.						T.						.06	.18	T.								0.32
Tarkio	do																																......
Trenton	Grand		.03			T.	.04																.09										0.16

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. * * Precipitation in the next following measurement. ‡ Separate dates of fall not recorded

Daily temperatures for January, 1920.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	31	20	34	24	31	33	29	20	30	35	42	40	43	42	37	45	40	42	40	35	31	32	30	28	30	48	29	32	54	54	30	35.2
	Minimum	9	6	5	5	7	20	24	16	9	12	15	17	22	32	31	30	5	21	16	27	9	10	17	19	18	17	20	9	11	30	23	16.5
Columbia	Maximum	27	24	35	19	30	34	34	23	27	38	37	39	40	48	44	43	29	41	42	39	27	29	29	26	30	49	38	31	54	55	32	35.3
	Minimum	10	5	6	6	13	27	23	16	13	14	21	16	26	22	31	27	15	21	28	17	12	19	26	17	11	23	18	11	24	30	25	18.5
Hannibal	Maximum	23	20	27	19	30	33	36	25	28	36	40	39	39	39	36	37	24	28	37	31	28	30	26	24	28	42	35	27	48	47	34	32.1
	Minimum	8	7	6	4	10	26	25	16	11	12	23	17	26	26	26	22	12	16	21	15	10	15	23	13	7	21	14	8	20	25	22	16.4
Jefferson City §§	Maximum	28	22	37	20	31	33	34	23	26	32	39	38	41	46	46	46	29	45	15	41	27	30	30	24	29	50	52	30	52	57	35	35.4
	Minimum	11	13	9	8	8	18	30	21	14	11	14	14	15	19	21	35	18	19	22	28	14	14	16	21	12	14	22	13	13	22	32	17.5
Kirksville	Maximum	25	21	28	23	29	31	32	25	32	35	42	41	40	44	38	37	30	31	35	26	26	35	31	25	26	45	41	31	51	53	45	34.0
	Minimum	6	4	3	1	1	24	20	11	10	12	20	25	25	25	27	39	9	14	20	18	4	10	20	15	0	18	15	4	17	33	17	14.8
Louisiana	Maximum	43	34	30	30	26	30	35	31	28	34	40	40	41	38	40	38	36	28	42	35	25	28	32	28	28	37	40	30	50	52	50	33.5
	Minimum	8	8	0	4	4	12	16	19	17	5	12	17	20	18	20	24	12	18	21	18	10	15	15	21	8	16	20	10	16	28	24	14.4
Macon §§	Maximum	20	20	32	23	30	32	29	20	29	29	41	39	42	45	35	40	28	34	35	31	31	36	28	27	30	44	28	32	52	51	29	33.0
	Minimum	5	4	5	2	8	14	23	14	13	12	14	19	20	23	25	30	10	11	20	21	5	6	11	10	0	3	17	6	7	22	21	13.1
Mexico §§	Maximum	26	20	13	19	30	33	30	21	28	36	40	37	41	43	39	39	29	41	40	40	27	29	28	28	29	45	29	31	56	55	30	33.3
	Minimum	9	7	2	4	4	12	28	20	14	11	17	12	16	21	25	32	13	9	13	25	10	10	15	18	7	15	19	9	10	21	22	14.5
Oakfield	Maximum	31	25	37	29	28	32	35	28	29	38	41	41	44	43	46	42	39	34	47	50	30	29	32	30	29	44	41	30	50	60	42	37.5
	Minimum	9	11	3	4	7	23	26	20	16	14	22	15	30	25	31	36	16	19	28	25	16	22	27	20	12	16	26	16	26	36	25	19.9
St. Catharine	Maximum	25	23	33	25	28	33	32	28	29	37	42	42	42	45	41	41	35	35	34	28	27	35	33	25	28	45	41	30	50	52	40	35.0
	Minimum	5	6	6	2	10	23	21	12	10	10	22	18	25	23	25	30	10	15	15	20	4	10	18	15	3	21	15	4	27	28	19	15.2
St. Louis (1)	Maximum	25	25	34	19	30	33	39	28	29	36	37	42	41	39	42	42	33	32	48	48	30	30	34	26	27	41	38	30	46	55	34	35.3
	Minimum	12	11	10	5	11	25	28	19	19	15	27	21	31	31	33	33	17	20	26	22	18	24	26	19	11	19	23	19	25	30	28	21.4
Unionville	Maximum	33	23	28	26	33	34	32	26	30	34	58	44	42	45	47	35	32	33	36	25	26	36	22	24	26	46	41	32	52	45	32	34.5
	Minimum	5	2	3	1	8	25	24	12	5	12	20	22	24	22	24	26	8	12	15	11	3	8	15	4	5	18	14	2	18	20	17	12.6
Warrenton §§	Maximum	26	18	31	29	30	33	34	23	29	39	38	42	38	44	44	38	28	41	43	44	27	35	30	23	27	44	31	32	50	56	34	31.8
	Minimum	10	10	3	4	5	12	28	22	14	9	12	25	16	26	24	34	14	14	20	25	15	13	20	20	10	11	17	13	14	19	24	16.2
Southeast Lowlands.																																	
Caruthersville	Maximum	58	40	43	34	35	35	45	38	35	42	45	49	57	53	45	61	52	44	72	71	65	42	45	38	39	53	48	45	53	60	50	48.1
	Minimum	24	21	16	19	16	31	35	33	25	25	34	28	37	28	34	44	33	28	34	46	28	28	34	29	23	25	40	30	25	26	33	29.4
Doniphan	Maximum	36	36	41	34	46	33	40	36	31	34	35	45	50	48	48	59	53	45	66	70	65	36	41	40	36	45	46	46	55	45	39	41.4
	Minimum	18	18	13	18	13	18	32	30	20	18	20	22	31	23	32	45	31	22	29	30	19	24	32	28	21	16	25	18	20	28	25	23.8
Jackson	Maximum	45	27	40	32	33	22	40	36	34	34	37	42	45	45	46	55	46	41	60	66	53	35	37	35	33	50	43	38	58	55	43	42.3
	Minimum	15	18	10	11	6	28	28	29	26	19	21	18	26	21	30	40	26	26	31	29	21	21	31	25	18	15	34	25	18	26	30	23.5
Marble Hill	Maximum	62	62	60	60	55	50	50	48	48	47	48	47	50	51	51	58	51	53	62	68	67	68	68	61	58	57	55	55	58	58	58	56.4
	Minimum	15	20	8	5	6	29	31	28	20	22	29	17	31	20	34	40	32	24	32	36	20	27	30	20	17	13	35	24	23	20	24	23.5
Poplar Bluff	Maximum	49	37	41	30	35	32	40	37	....	....	....	....	....	....	....	....	....	....	....	....	....	....	42	30	31	34	45	40	31	39	40	
	Minimum	19	21	9	12	11	22	31	30	21	23	30	21	31	25	21	44	31	29	39	31	22	20	31	28	20	19	32	21	20	22	29	24.7
Ozark Plateau.																																	
Arcadia §§	Maximum	33	27	48	27	28	33	36	28	28	35	40	43	47	49	50	53	37	43	57	63	28	33	35	26	35	50	47	36	53	68	34	40.3
	Minimum	12	12	7	10	5	10	26	20	17	15	19	11	12	17	19	33	24	20	21	28	19	19	27	27	18	13	14	18	16	17	27	17.7
Aurora	Maximum	31	32	46	37	30	33	33	25	29	28	39	37	41	44	47	54	44	51	60	62	31	32	35	33	36	55	57	38	59	65	55	42.0
	Minimum	16	25	19	16	20	26	24	20	12	13	19	10	31	22	33	40	28	26	40	51	19	26	31	23	16	21	26	19	26	33	30	23.9
Birchtree	Maximum	41	32	50	40	31	....	33	31	26	35	40	41	48	50	48	55	45	47	65	57	44	32	37	34	38	49	51	41	5	60	51	a43.5
	Minimum	12	17	10	15	10	....	23	25	15	15	28	17	35	21	32	39	27	23	30	32	20	24	30	27	17	13	30	20	17	26	29	a22.5
Eldon	Maximum	32	27	43	24	31	33	34	34	29	38	40	43	45	46	47	50	35	52	47	50	29	31	32	26	32	54	39	31	56	63	44	39.4
	Minimum	8	8	7	6	7	23	18	15	6	5	21	10	23	15	27	31	17	18	28	23	13	21	21	11	9	11	21	10	17	37	24	16.5
Farmington	Maximum	24	24	40	35	27	40	35	32	28	36	35	41	41	42	45	50	44	40	51	60	42	35	32	30	29	46	40	32	19	58	51	39.1
	Minimum	11	16	10	7	9	10	31	24	17	16	26	16	31	26	31	39	20	20	31	29	18	24	25	22	17	16	24	19	19	30	28	21.5
Gano	Maximum	28	28	42	36	28	32	33	27	26	35	35	42	42	47	48	4	44	44	52	57	31	30	32	29	30	47	42	31	52	53	51	39.1
	Minimum	17	16	7	8	7	22	26	19	12	11	23	15	31	12	29	37	19	18	35	30	20	22	27	20	13	12	27	12	18	28	25	19.9
Hollister	Maximum	42	44	52	50	32	34	32	28	28	40	41	40	42	41	50	60	53	51	62	70	42	39	40	38	40	52	52	47	55	68	58	46.1
	Minimum	26	20	20	20	10	10	18	8	16	7	21	5	25	20	36	45	35	22	30	30	27	32	22	25	17	14	24	20	18	20	22	21.1
Koshkonong	Maximum	45	35	51	42	34	22	36	34	30	36	58	46	48	52	47	58	48	51	66	68	51	32	41	37	36	51	49	41	53	64	50	45.2
	Minimum	15	23	15	18	13	25	31	27	17	18	31	26	36	27	34	42	30	25	35	31	25	26	31	26	19	17	33	23	20	28	31	25.8
Lebanon §§	Maximum	35	27	34	22	32	33	32	22	26	35	38	58	46	16	45	49	38	50	55	57	29	32	32	35	35	52	35	36	58	61	60	39.5
	Minimum	10	10	13	11	12	17	28	20	12	16	15	11	30	19	21	34	27	23	34	35	11	16	25	21	15	19	19	14	20	24	21	19.3
Mountain Grove §§	Maximum	36	30	41	30	31	31	32	24	29	34	37	38	41	17	45	50	55	53	62	60	27	34	28	25	34	46	48	37	47	61	46	39.6
	Minimum	11	13	12	14	15	18	20	22	13	10	14	25	25	22	27	35	25	23	26	34	18	18	28	22	16	18	24	10	21	28	30	20.9
Neosho	Maximum	36	35	47	43	36	35	36	26	32	41	41	40	43	44	50	54	51	59	64	64	35	56	37	32	43	56	52	52	59	63	63	45.0
	Minimum	13	21	18	20	18	28	25	19	5	10	20	11	35	21	34	39	22	24	36	32	21	28	21	24	17	20	23	20	24	29	21	23.0
Rolla §§	Maximum	40	31	44	25	30	32	32	27	33	42	37	44	45	49	49	49	47	49	32	57	34	33	32	25	32	52	50	54	57	65	56	42.1
	Minimum	10	18	10	9	11	24	27	21	11	13	21	15	31	27	36	37	23	23	38	30	17	25	29	22	15	17	29	15	21	32	27	22.0
Springfield	Maximum	31	30	44	29	28	32	37	24	24	37	35	38	43	41	45	51	35	53	59	60	27	33	33	26	30	49	41	39	53	59	51	39.3
	Minimum	13	19	18	15	19	24	24	15	12	16	25	22	32	21	33	31	25	21	43	25	18	25	26	21	16	22	25	18	27	35	32	23.6
Southwest Plain.																																	
Appleton City	Maximum	37	33	45	37	32	[illegible]	[illegible]	27	28	31	41	38	46	40	45	5	45	52	46	51	30	32	32	27	32	50	43	33	54	61	55	40.2
	Minimum	12	21	16	13	13	26	[illegible]	17	6	11	19	10	21	20	31	30	25	25	37	29	14	25	27	21	13	22	26	13	23	31	30	21.0
Amoret	Maximum	....	32	45	28	32	32	[illegible]	28	28	22	40	40	45	38	43	55	42	51	47	40	[illegible]	32	35	32	39	50	45	35	60	55	53	a40.4
	Minimum	....	20	16	15	16	25	22	18	5	8	16	8	18	22	30	30	21	20	32	28	14	26	22	18	10	20	25	23	30	29	32	a20.3
Clinton	Maximum	36	32	45	34	34	34	[illegible]	32	37	36	43	40	46	58	48	48	38	51	46	45	2	34	25	28	34	51	41	57	57	61	51	40.3
	Minimum	12	20	15	11	15	25	17	20	6	12	25	12	21	26	32	30	28	24	31	28	14	23	27	20	17	21	25	12	25	31	29	20.6
Harrisonville §§	Maximum	34	28	45	29	30	32	27	20	29	34	42	46	43	40	45	52	37	52	54	45	28	32	29	20	30	50	33	33	57	59	38	38.1
	Minimum	9	11	15	11	15	24	23	18	8	9	15	15	15	24	22	30	22	22	29	28	16	16	20	20	10	22	23	11	11	24	26	17.8
Lamar §§	Maximum	35	34	48	31	34	[illegible]	[illegible]	21	29	35	40	41	42	47	47	43	43	57	58	55	31	33	33	27	31	55	40	39	58	60	51	40.9
	Minimum	11	20	18	16	20	25	27	19	4	11	23	9	30	21	33	33	26	28	34	39	18	25	24	20	17	22	25	16	24	29	31	22.7
Lamonte	Maximum	34	25	40	30	....	[illegible]	[illegible]	27	20	33	40	57	47	42	41	47	37	48	42	41	34	30	33	20	3	49	46	35	55	60	46	a38.0
	Minimum	10	12	10	8	....	15	23	17	3	10	17	13	17	20	31	30	19	21	34	25	11	18	25	19	9	23	22	10	18	50	25	a18.4
Marshall	Maximum	31	30	35	50	31	34	54	32	33	37	58	41	....	44	41	45	38	41	39	38	28	30	29	26	40	....	42	36	53	53	48	b44.8
	Minimum	9	10	7	6	9	23	22	7	16	21	15	22	....	22	31	31	12	19	31	27	16	16	26	19	24	....	22	10	26	31	23	b18.7
Warsaw	Maximum	35	35	45	39	35	35	35	26	30	40	42	40	47	46	48	52	52	53	49	52	22	51	29	30	31	53	45	39	57	61	54	42.2
	Minimum	12	20	13	12	14	26	25	18	— 2	— 4	12	1	22	14	33	31	23	21	39	30	15	25	28	24	12	19	23	14	19	24	29	15.1
Northwest Plateau.																																	
Chillicothe §§	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
Grant City	Maximum	25	20	30	28	29	33	35	26	29	35	29	44	43	45	46	38	35	30	38	36	30	32	33	29	31	44	40	31	57	51	40	35.7
	Minimum	6	4	10	4	10	25	20	13	3	14	20	20	25	21	27	27	20	12	22	18	4	11	18	4	16	20	12	4	19	36	20	17.3
Kansas City	Maximum	33	25	41	25	30	34	34	22	31	38	41	44	47	49	48	49	32	49	43	38	26	27	28	26	29	52	40	33	58	55	36	37.5
	Minimum	15	16	18	11	17	27	22	10	15	17	30	25	32	30	21	28	23	23	29	12	9	17	22	14	11	28	16	9	29	31	25	21.9
Kidder §§	Maximum	30	21	33	22	30	22	27	15	30	38	39	47	40	50	36	54	21	42	39	29	26	30	28	24	28	52	28	31	48	52	29	31.2
	Minimum	8	4	4	6	6	20	20	15	6	17	17	22	22	25	25	27	16	15	18	22	7	6	14	16	5	6	16	6	7	30	22	11.5
Lexington §§	Maximum	33	23	40	24	32	32	28	20	28	34	44	40	45	49	40	49	54	45	40	35	28	27	27	25	30	47	29	32	55	56	37	35.7
	Minimum	10	14	14	8	13	26	22	16	11	13	28	20	27	25	30	30	18	20	36	26	9	14	24	19	7	24	20	9	21	35	25	19.8
Maryville §§	Maximum	21	18	25	22	29	32	25	17	31	33	37	41	38	49	45	56	26	40	35	21	27	22	22	21	27	44	21	33	48	42	28	31.3
	Minimum	4	3	1	4	4	18	18	13	2	0	15	20	23	21	23	23	14	12	12	19	3	3	10	12	1	— 1	13	5	5	20	21	11.0
Oregon	Maximum	25	21	35	25	31	33	33	25	29	37	48	41	40	18	44	41	28	40	37	27	24	28	28	20	28	44	40	30	53	48	34	34.6
	Minimum	8	8	14	8	14	24	18	12	4	15	22	21	25	21	27	24	15	16	23	10	3	9	17	9	0	12	12	5	23	29	21	15.2
St. Joseph	Maximum	26	21	36	25	32	32	30	23	22	38	38	45	42	51	39	43	29	44	41	27	28	28	27	23	28	47	34	33	60	46	31	34.9
	Minimum	12	13	18	11	17	27	22	16	11	18	26	26	29	27	32	26	19	20	27	13	8	14	20	16	6	28	16	10	27	30	24	19.5
Trenton	Maximum	25	21	28	25	30	33	32	25	28	36	37	42	37	41	38	40	30	35	36	28	27	34	32	29	29	41	37	28	48	42	37	33.4
	Minimum	9	7	10	5	9	25	20	15	9	12	23	22	23	25	28	27	12	18	24	20	6	11	21	15	4	19	15	6	13	30	19	16.5

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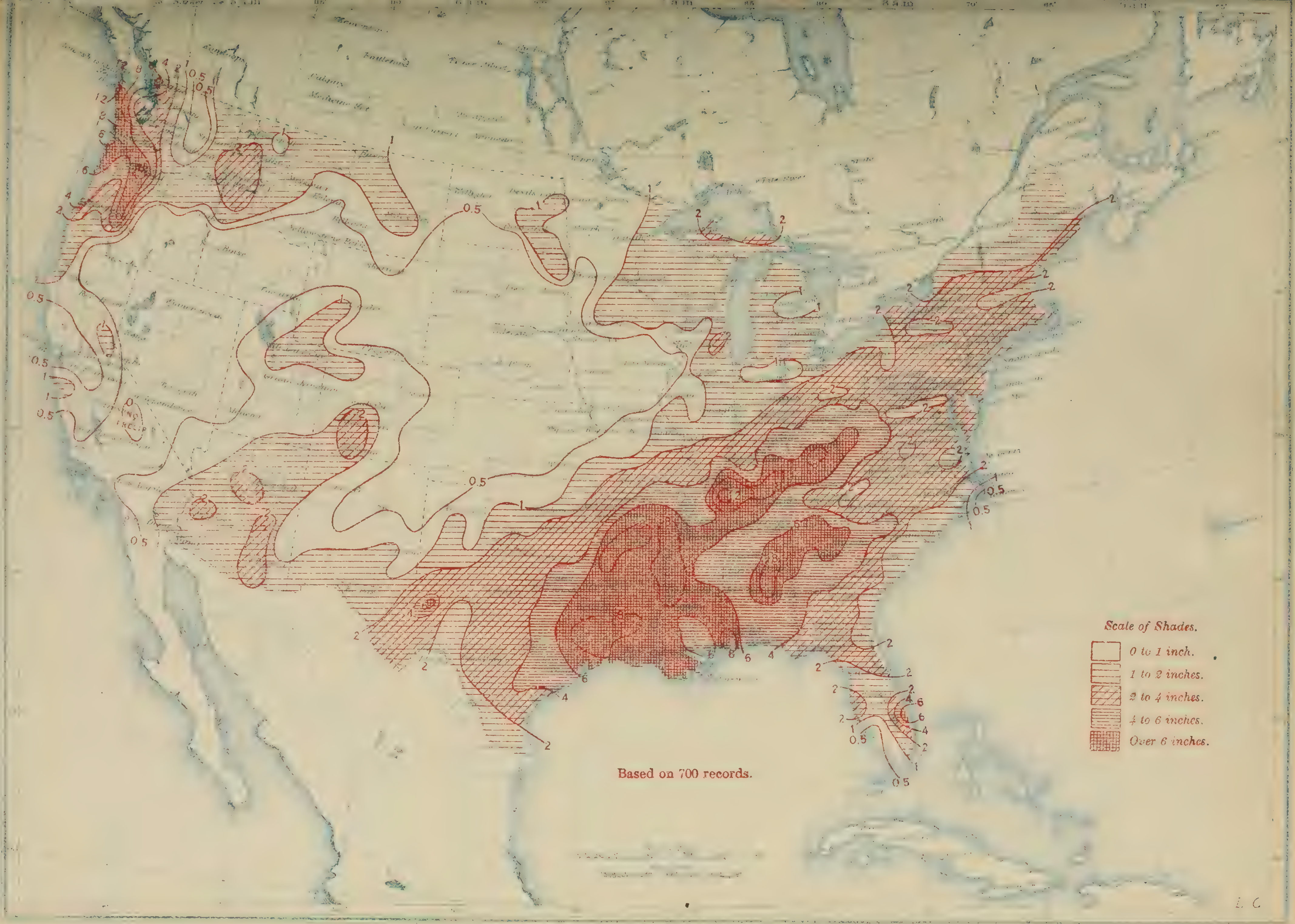
a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.



Scale of Shades.
0 to 1 inch.
1 to 2 inches.
2 to 4 inches.
4 to 6 inches.
Over 6 inches.
Based on 700 records.
L. C

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WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

MISSOURI SECTION

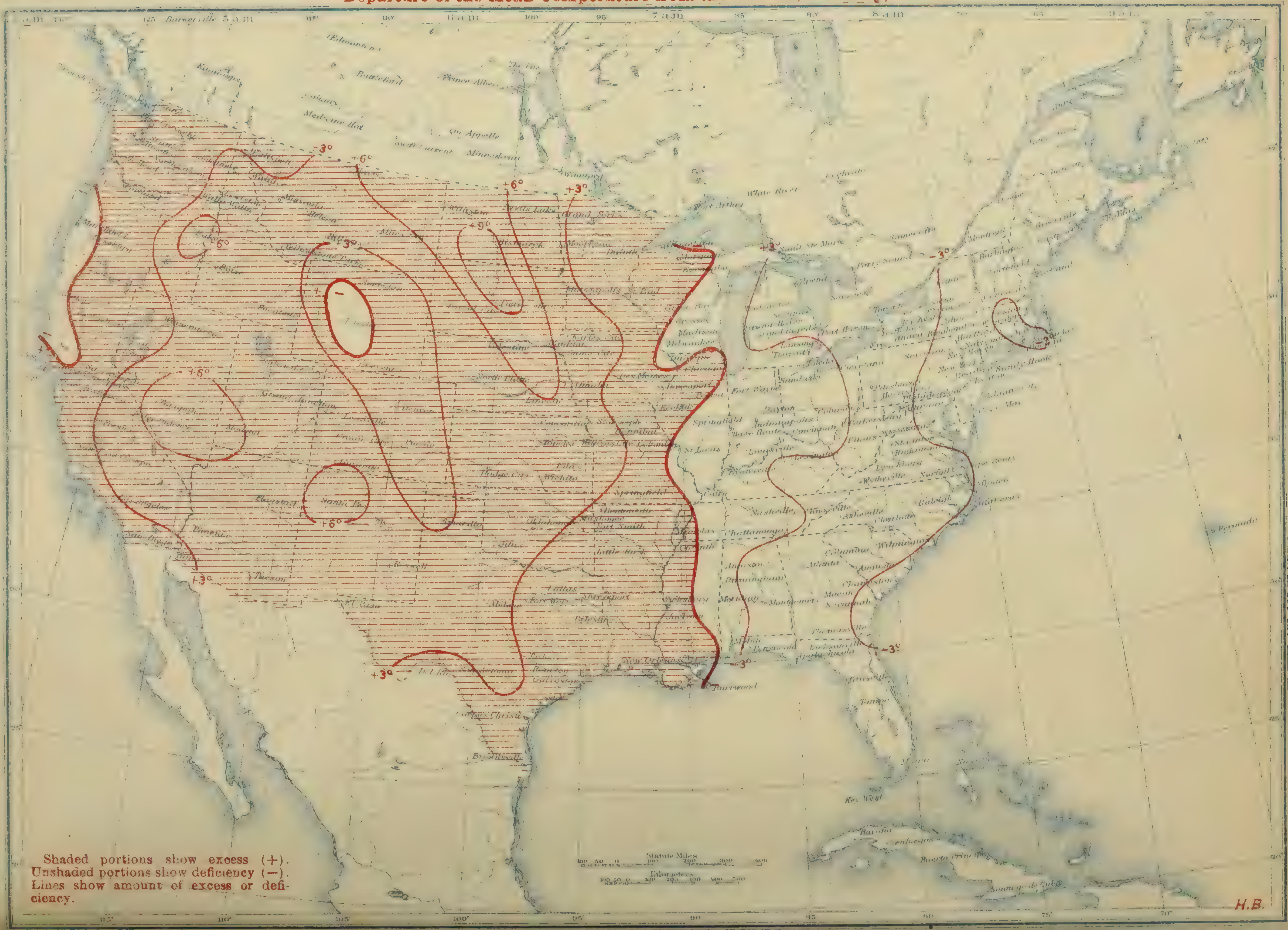
IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

FEBRUARY, 1920

BY
GEORGE REEDER
METEOROLOGIST

COLUMBIA, MO.
WEATHER BUREAU OFFICE
MAY 14, 1920

Departure of the Mean Temperature from the Normal, February, 1920.



Shaded portions show excess (+).
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXIV. COLUMBIA, MO., FEBRUARY, 1920 No. 2.

GENERAL SUMMARY.

Except a short cold spell about the middle of the month, and raw and chilly weather during the last week, February, 1920, in Missouri, was somewhat milder than the average. The precipitation was markedly less than the normal amount, but there were more misty and foggy days than usual.

There was considerable alternate freezing and thawing, which proved unfavorable for the wheat crop; and, notwithstanding the scanty precipitation, there was, as a rule, too much soil moisture for the proper preparation of the ground for sowing oats, and consequently that part of farm work will be delayed.

There were no damaging wind or sleet storms.

TEMPERATURE.

The monthly mean temperature, 65 stations reporting, was 34.5°. Along the extreme southern border the temperature averaged about 40°, a plus departure of 4.4°; along the northern border the average was slightly below 30°, a plus departure of 4.8°; for the State as a whole the plus departure was 3.2°. The weather was mild from the 1st to 13th, and 17th to the 23d, the warmest days being the 2d and 20th, with day temperatures ranging from 68° to 78°; the coldest periods embraced the 14th, 15th, and 16th, and the last 6 days of the month; the coldest day was the 16th when zero or lower occurred at 24 stations, the minimum being —5°, along the northern border. There were only about 5 or 6 days of typical winter weather, that is, days on which the maximum did not rise above 32°. The average number of days with minimum temperature of 32° or lower was 22.

PRECIPITATION.

The average precipitation, 81 stations reporting, was 0.57 inch. The mean departure from the normal for 72 stations having 10 or more years' record was minus 1.68 inches. The deficiency was uniform in all divisions, but, on the other hand, precipitation was quite frequent in both the first and last decade, though generally light. The snowfall was of little importance, the monthly average being 1.2 inches as compared with 7 inches as the normal. There were a few local heavy falls along the Southern Ozark slope, on the 14th, and 26th.

WIND.

The prevailing winds were from the northwest. The average wind movement, based upon 8 stations equipped with anemometers, was 7,128 miles, 10.2 miles an hour, and about 2 per cent less than normal. There were no strong or damaging winds.

SUNSHINE AND CLOUDINESS.

The higher clouds prevailed, resulting in partly overcast skies. The number of hours of sunshine, based upon the records of 5 well distributed stations, was 148. This is about 47 per cent of the possible amount and about 4 per cent less than the normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense.—1st, 3rd, 5th, 6th, and 21st.

Halos, solar.—1st, 2d, 9th, 12th, 13th, 15th, 18th, 20th, and 28th. *Lunar*—1st, 2d, and 3d.

Sleet.—5th, and 28d.

Thunder heard on the 21st, and 22d.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.13	78	......	135	43	6,352	9.1	28	w.	14
Hannibal	30.14	79	......	......	......	6,466	9.3	32	sw.	16
Kansas City	30.15	77	64	184	59	8,722	12.5	37	n.	28
St. Joseph	30.14	82	67	137	44	6,505	9.3	30	nw.	13
St. Louis	30.12	76	64	125	40	8,842	12.7	36	sw.	27
Springfield	30.13	85	73	156	49	7,177	10.3	29	n.	29
Cairo, Ill	30.12	79	67	......	......	7,111	10.2	31	sw.	17
Keokuk, Iowa	30.16	77	68	152	48	5,852	8.4	30	s.	16

SUPPLEMENTAL TABLE OF DATA.

Stations.	Length of record, years.	Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
		Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Arlington	15	......	....	......	......	....	....	....	....	......	Wm. R. Bennett.
Boonville	41	0.35	−2.13	0.13	0.7	7	11	2	16	nw.	C. Randecker.
C. Girardeau	11	0.98	−1.28	0.35	1.0	5	....	....	....	......	D. L. Albert.
Glencoe	1	0.24	....	0.15	1.0	2	10	2	17	...	L. M. Beard.
Hermann	44	0.11	−2.32	0.08	T.	2	9	0	20	nw.	W E. Crawford.
New Madrid	24	2.94	−1.02	1.26	5.0	9	7	1	21	ne.	Miss Josie Smith.
Osceola	18	0.50	−1.46	0.20	......	4	17	0	12	.....	Wm. E. Mathews.
Pacific	1	0.42	....	0.14	0.5	4	11	3	15	w.	Mark Waters.
Steelville	16	1.21	−1.15	0.80	1.0	6	12	0	17	nw.	A. Kreamelmeyer.
Tuscumbia	1	0.49	....	0.19	T.	6	....	....	....	n.	C. B. Wright.
Union	1	0.33	....	0.10	1.0	8	9	4	16	nw.	J. Wm. Keller.
Valley Park	1	0.44	....	0.22	1.0	3	9	8	12	......	T. W. McNeese.
Waverly	3	0.28	....	0.09	T.	5	14	0	15	nw.	J. W. Cauthorn.

COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature.				Precipitation.				Number of Days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	33.0	+2.0	73	−11	2.04	−0.28	......	......	7	......	....	....
1889	29.3	−1.7	73	−9	2.57	+0.25		......	7	......	....	....
1890	35.5	+4.5	81	−7	2.24	−0.08	......	......	7	......	....	....
1891	32.7	+1.7	76	−8	2.28	−0.04	......	2.4	6	......	....	....
1892	37.7	+6.7	71	2	4.15	+1.83	......	...	9	7	6	16
1893	27.9	−3.1	65	−20	1.98	−0.34	2.30	4.6	6	10	7	11
1894	30.8	−0.2	72	−12	2.52	+0.20	2.60	11.2	6	10	8	10
1895	23.6	−7.4	77	−26	0.55	−1.77	1.10	3.3	5	10	10	8
1896	35.6	+4.6	81	−10	1.61	−0.71	2.20	4.1	5	12	8	9
1897	34.8	+3.8	74	−15	2.30	−0.02	3.60	8.2	7	7	7	14
1898	35.4	+4.4	78	−9	1.62	−0.70	2.90	0.8	5	13	6	9
1899	20.4	−10.6	72	−32	2.17	−0.15	4.30	5.3	6	12	8	8
1900	26.2	−4.8	70	−16	3.92	+1.60	2.85	16.6	10	10	6	12
1901	28.1	−2 9	76	−19	1.63	−0.69	2.36	7.6	6	13	7	8
1902	24.0	−7.0	72	−17	1.50	−0.82	2.35	5.8	5	11	8	9
1903	29.8	−1.2	74	−25	2.92	+0.60	2.65	5.3	7	11	6	11
1904	30.0	−1.0	82	−18	0.91	−1.41	1.46	1.5	5	11	8	10
1905	21.5	−9.5	69	−40	1.64	−0.68	1.20	13.2	8	11	6	11
1906	33.7	+2.7	73	−13	2.28	−0.04	2.40	4.1	7	15	6	7
1907	34.8	+3.8	77	−15	1.65	−0.67	3.72	4.5	6	12	5	11
1908	35.6	+4.6	78	−7	4.32	+2.00	4.28	4.1	9	13	6	10
1909	38.8	+7.8	71	−4	3.38	+1.06	2.50	3.1	9	13	5	10
1910	28.3	−2.7	72	−24	1.98	−0.34	3.00	7.7	6	12	6	10
1911	38.1	+7.1	87	0	3.64	+1.32	2.08	6.3	8	12	5	11
1912	28.3	−2.7	72	−12	2.45	+0.13	3.20	11.9	6	10	7	12
1913	29.8	−1.7	78	−9	2.21	−0.18	4.78	8.5	7	12	5	11
1914	28.3	−3.2	75	−11	2.71	+0.42	2.80	14.0	7	12	6	10
1915	39.4	+8.0	72	7	3.18	+0.81	2.05	4.1	8	9	5	14
1916	31.4	+0.2	78	−12	0.98	−1.48	2.70	5.0	5	13	6	10
1917	30.5	−1.0	83	−22	0.41	−2.03	1.24	1.4	2	14	7	7
1918	34.9	+4.6	83	−25	1.11	−1.26	2.00	0.6	4	15	6	7
1919	35.3	+4.0	71	−10	1.98	−0.35	2.20	6.4	7	13	4	11
1920	34.5	+3.2	78	−5	0.57	−1.68	1.41	1.2	4	11	6	12

Climatological data for February, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	39	32.7	+4.2	60	2	1	16	45	0.34	-1.67	0.27	0.2	3	13	0	16	nw.	O. K. Benecke.
Clifton Hill	Randolph	731	21	34.2	+6.9	62	2	0	16	42	0.27	-1.69	0.18	T.	3	13	8	8	..	L. S. Harlan.
Columbia	Boone	784	31	33.2	+3.0	63	2	2	16	37	0.41	-1.81	0.21	0.6	5	9	6	14	nw.	U. S. Weather Bureau.
Fayette	Howard	725	41	32.7	+2.7	61	2	2	15†	37	0.53	-1.55	0.37	0.3	6	8	6	15	sw.	Prof. D. R. Briggs.
Fulton	Callaway	818	33	34.8	+2.6	66	2	1	16	41	0.26	-1.84	0.22	0.5	2	9	6	14	n.	Prof. Claude A. Jones.
Gorin	Scotland	700	32	......	......	......	....	....	......	....	0.22	-1.40	0.12	0.3	4	5	7	17	nw.	J. W. Pulliam.
Hannibal	Marion	534	37	31.0	+1.7	62	2	1	16	37	0.68	-0.99	0.55	0.8	8	9	5	15	nw.	U. S. Weather Bureau.
Jefferson City	Cole	557	37	32.6	+1.8	61	2	3	15†	49	0.27	-1.86	0.10	1.0	4	18	0	11	n.	Miss Emma Swift.
Kirksville	Adair	969	38	30.4	+5.5	59	2	-4	15†	45	0.51	-1.42	0.26	0.5	2	8	8	13	n.	Prof. Mark Burrows.
Louisiana	Pike	469	39	35.0	+6.6	60	2	0	16	32	0.33	-2.14	0.11	1.3	6	17	4	8	n.	J. T. Farrell.
Macon	Macon	875	26	30.4	+2.3	61	2	-2	15†	47	0.18	-2.00	0.13	0.2	3	8	6	15	ne.	W. C. Brown.
Mexico	Audrain	797	41	31.8	+3.1	64	2	0	16	50	0.25	-2.20	0.12	0.7	7	18	2	9	w.	Mrs. Abbie Snoddy.
Oakfield ‡‡	Franklin	793	38	34.3^{a}	+2.1	68	2	1	16	36	0.20	-2.22	0.12	2.0	3	11	2	16	n.	E. E. Steines.
Palmyra	Marion	652	20	29.8	+3.0	59	2	-1	16	36	0.13	-2.16	0.06	0.5	3	10	4	15	ne.	W. B. Markell.
St. Catherine	Linn	850	9	30.8^{a}	......	59	2	-4	15†	47	0.11	....	0.04	T.	5	9	9	11	nw.	L. D. Baker.
St. Charles	St. Charles	456	41	34.5	+2.8	67	2	2	16	31	0.99	-1.91	0.68	0.2	4	9	7	13	nw.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	85	34.8	+1.3	64	2	5	16	30	0.74	-2 12	0.43	100	5	7	8	14	nw.	U. S. Weather Bureau.
St. Louis (2)	do.	578	8	33.9	+2.5	64	2	5	15†	31	0.63	......	0.36	1.7	7	10	8	11	nw.	St. Louis University.
Shelbina	Shelby	779	27	......	......	...	......	......	..	....	......	......	....	......	....	....	....	....	....	S. G. Parsons.
Steffenville	Lewis	650	26	31.4	+4.1	62	2	-3	16	44	0.10	-1.95	0.07	1.0	2	10	9	10	nw.	Frank Hall.
Unionville	Putnam	1,072	27	29.6	+5.3	51	2	-5	15	45	0.44	-1.56	0.20	0.5	3	9	4	16	n.	Geo. W. Davis.
Warrenton	Warren	865	38	31.4	+2.0	64	2	0	16	40	0.45	-2.06	0.29	1.2	5	5	11	13	nw.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	48	29.4	+2.8	47	22	-3	15	40	0.19	-1.49	0.11	0.3	4	9	8	12	n.	U. S. Weather Bureau.
Section means and	extremes	....	....	32.3	+3.3	68	2	-5	15	50	0.37	-1.80	0.68	0.7	4	10	6	13	nw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	29	43.2	+4.7	73	2	12	16	36	2.64	-1.25	0.68	6.0	8	13	2	14	e.	H. E. Averill.
Doniphan	Ripley	314	16	40.4	+2.5	69	20	9	16	41	1.89	-1.46	0.74	2.0	5	13	8	8	s.	W. W. Martin.
Jackson	Cape Girardeau	458	30	38.0	+2.3	66	2	8	16	39	1.99	-0.98	1.41	3.7	7	6	9	14	s.	L. M. Bean.
Marble Hill	Bollinger	420	26	......	......	.....	....	......	......	....	....	....	....	......	....	....	....	....	......	F. W. Wells.
Patton (near)	Bollinger	500	10	......	......	.....	......	...	......	....	0.91	-1.14	0.34	2.7	5	....	....	....	......	George F. Ellis.
Poplar Bluff	Butler	339	16	......	......	.....	..	9	16	....	1.28	-1.89	0.49	0.0	4	16	2	11	......	Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill.	359	45	38.0	+0.2	65	2	11	16	28	1.68	-1.76	0.48	4.3	3	6	10	13	n.	U. S. Weather Bureau.
Section means and	extremes	....	....	39.9	+2.6	73	2	3	16	41	1.73	-1.41	1.41	3.1	5	11	6	12	s.	
Ozark Plateau.																				
Arcadia	Iron	925	42	34.2	+0.7	64	2	4	16	55	0.76	-2.49	0.55	0.3	6	12	3	14	w.	Arcadia College.
Aurora	Lawrence	1,370	....	38.9^{b}	+5.3	70	20	6	16	34	0.27	-2.55	0.24	2.2	2	11^{b}	4^{b}	12^{b}	nw.	C. D. Sprague.
Birchtree	Shannon	1,078	26	34.8^{e}	+0.2	69	20	...	......	33	0.71	1.88	0.35	6.0	4	14	5	10	nw	V. H. Kirkendall.
Bolivar	Polk	1,071	33	37.0	+2.9	68	20	5	16	33	0.28	-2.06	0.22	T.	2	13	3	13	nw.	K. H. Brown.
Cassville	Barry	1,475	21	......	......	....	......	......	......	....	0.43	-1.45	0.36	5.0	4	14	3	12	n.	R. H. Wallen.
Dean ‡‡	McDonald	1,000	21	39.0	+4.6	70	19	1	16	42	0.15	-1.75	0.15	0.0	1	16	2	11	....	H. E. Dean.
Eldon	Miller	934	21	34.4	+2.7	69	2	0	15†	39	0.89	-1.34	0.68	1.0	5	8	11	10	ne.	E. H. Shepherd.
Farmington	St. Francois	918	23	35.3	+0.3	61	2	4	15	35	1.22	-2.22	0.49	1.5	7	11	9	9	ne.	Robert Forsyth.
Gano ‡‡	Dent	1,250	18	35.0	+0.6	65	21	-1	16	39	1.45	-1.00	1.05	2.1	8	10	5	14	nw.	A. C. Leach.
Goodland	Iron	1,000	27	36.2	+3.6	60	21	1	16	34	0.04	-2.57	0.04	0.5	1	11	10	8	n.	F. M. Adams.
Hollister	Taney	735	17	42.4	+4.4	74	20	5	16	46	0.59	-1.64	0.56	8.0	2	18	0	11	sw.	W. P. Chapmann.
Houston	Texas	1,280	27	38.6	+4.7	69	20	5	16	35	0.32	-1.99	0.26	0.7	3	9	12	8	nw.	R. F. Harmon.
Koshkonong	Oregon	958	19	41.4	+4.2	70	20	7	16	33	1.23	-2.66	0.70	7.0	5	12	10	7	nw.	R. M. Hitt.
Lebanon	Laclede	1,265	32	35.6	+1.8	66	2	2	16	52	1.39	-1.14	1.24	T.	3	15	10	4	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	21	39.2	+4.1	67	20	9	16	34	T.	-2.06	T.	0.0	0	12	6	11	nw.	C. S. Crow.
Mountain Grove	Wright	1,490	23	35.6	+1.3	66	21	4	16	50	0.44	-1.92	0.21	4.7	3	11	5	13	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	40.4	+4.0	78	20	5	16	39	0.29	-2.15	0.17	1.0	2	13^{a}	7^{a}	8^{a}	nw.	U. S. Fisheries Sta.
Rolla	Phelps	1,139	36	37.6	+2.7	71	2	2	15†	37	1.18	-1.19	0.73	0.2	5	11	8	10	nw.	Prof. Elmo G. Harris.
Springfield	Greene	1,350	42	36.9	+3.3	67	20	8	16	47	0.42	-1.96	0.14	2.2	6	12	6	11	nw.	U. S. Weather Bureau.
Section means and	extremes	......	....	37.3	+2.8	78	20	-1	16	55	0.64	-1.84	1.24	2.1	4	12	7	10	nw.	
Southwest Plain.																				
Amoret	Bates	831	13	34.9	+1.4	62	21	0	16	40	0.14	-2.19	0.10	T.	2	13	6	10	n.	Darby Fruit Farm.
Appleton City	St. Clair	853	28	37.0	+5.1	63	2	4	16	35	0.31	-1.72	0.11	T.	4	11	9	9	nw.	W. G. Bigelow.
Clinton	Henry	765	33	36.3	+4.7	64	2	5	15†	37	0.39	-1.76	0.35	0.4	2	10	8	11	nw.	A. E. Derwent, M. D.
Harrisonville	Cass	912	44	33.7	+4.2	64	2	2	15†	52	0.07	-2.02	0.04	0.2	2	12	6	11	sw.	John H. Patterson.
Lamar	Barton	980	39	37.4	+3.1	69	20	11	15	38	0.10	-2.20	0.10	0.0	1	11^{b}	3^{b}	13^{b}	s.	Joe W. Springer
Lamonte	Pettis	863	33	34.6^{a}	+3.4	63	2	0	16	39	0.25	-1.70	0.10	3.0	3	13^{a}	6^{a}	9^{a}	sw.	J. Ed. Hall.
Marshall	Saline	779	31	34.0^{a}	+4.8	63	2	0	16	40	0.13	-1.75	0.05	1.0	3	11^{a}	7^{a}	10^{a}	w.	Dr. W. H. Black.
Nevada	Vernon	860	28	.....	.....	......	......	......	......	....	.....	....	......	......	....	....	....	....	......	George A. Kaupp.
Warrensburg	Johnson	883	42	......	...	......	......	......	....	....	......	....	......	......	....	....	....	....	......	Geo. H. Collins.
Warsaw	Benton	715	25	37.0	+3.6	67	2	2	16	39	0.60	-1.99	0.35	0.5	5	11	10	8	w.	J. R. Smith, M. D.
Section means and	extremes	....	....	35.6	+3.8	69	20	0	16	52	0.33	-1.92	0.35	0.6	3	12	7	10	nw.	
Northwest Plateau.																				
Avalon	Livingston	730	30	34.0	+5.2	59	2	0	15†	55	0.15	-2.02	0.15	T.	1	9^{a}	7^{a}	12^{a}	nw.	F. G. Ashbaugh.
Bethany	Harrison	916	28	32.0	+5.8	51	8	-3	15†	48	0.25	-1.31	0.25	T.	1	7	8	14	nw.	M. H. Moulton.
Chillicothe	Livingston	768	15	......	...	......	..	......	......	....	......	......	......	......	....	....	....	....	....	R. L. Isherwood.
Conception	Nodaway	982	35	30.3	+3.9	52	8†	-4	15	46	0.44	-0.82	0.30	T	2	6	7	16	nw.	Fr. Adelhelm Hess.
Edgerton	Platte	856	....	33.2	. .	56	2	0	16	48	0.24	....	0.09	0.3	6	10	5	14	nw.	H. Killingsworth.
Gallatin	Daviess	803	....	......	......	......	......	.....	......	....	......	......	......	......	....	....	....	....	....	....
Grant City	Worth	1,134	29	30.5	+3.9	49	10	-4	15†	50	0.40	-0.73	0.30	T.	2	5	6	18	ne.	W. H. Campbell.
Kansas City	Jackson	963	31	34.1	+4.2	61	2	7	15	35	0.07	-1.59	0.04	0.6	4	12	8	9	n.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	33	31.8	+5.1	58	2	-1	15†	51	0.14	-1.49	0.07	0.2	4	13	3	13	nw.	J. F. Sharp.
Lexington	Lafayette	688	38	33.4	+4.3	63	2	2	15†	41	0.53	-1.50	0.32	1.0	5	14	0	15	n.	J. W. Keithley.
Liberty	Clay	864	30	33.8	+4.4	64	2	0	16	47	0.21	-1.73	0.05	2.3	6	8	12	9	nw.	James H. Harris.
Maryville	Nodaway	1,036	30	27.8	+4.5	52	8	-5	15†	50	0.86	-0.64	0.33	0.5	6	12	7	10	n.	J. R. Brink.
Oregon	Holt	1,048	64	30.1	+2.1	54	8	-4	15	46	0.08	-1.62	0.08	T.	1	8	4	17		Tom Curry.
St. Joseph	Buchanan	967	46	31.8	+2.0	53	8	1	15	41	0.31	-1.03	0.15	0.1	4	8	8	13	nw.	U. S. Weather Bureau.
Tarkio	Atchison	976	27	30.5	+3.7	54	8	-2	15	46	0.91	-0.15	0.90	0.0	2	9	3	17	nw.	John F. Frazier.
Trenton	Grundy	822	25	31.6	+3.9	53	2	-3	15	43	0.32	-1.36	0.11	T.	5	9	9	11	nw	W. H. Estes.
Section means and	extremes	....	....	31.8	+3.6	64	2	-5	15†	51	0.35	-1.23	0.90	0.4	4	9	6	14	nw.	
State means and	extremes	....	....	31.5	+3.2	78	20	-5	15†	55	0.57	-1.68	1.41	1.2	4	11	6	12	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Oakfield, Pacific, R. F. D. No. 1; of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily precipitation for February, 1920.

Stations.		Day of month. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Northeast Plain.																																	
Boonville ‖	Missouri				.13		.02	T.		.02	T.				T.					T.	.10	.03			.03		.02						0.35
Brunswick ‖	Grand						.03														.27				.04								0.34
Clifton Hill	Chariton			.18		.05															.04						T.						0.27
Columbia***	Missouri			.15		.01		T.	T.	T.									T.	T.	.20	.01	T.	.04	T.	T.	T.						0.41
Fayette	......do			.37	.03	T.			T.	.01									T.		.09	T.	T.	.02	T.	T.	.01						0.53
Fulton	......do					T.													T.			.22		.04	T.								0.26
Glencoe ‖	Meramec										T.											.09			.15								0.24
Gorin	Mississippi			.03		.12				.04																.03							0.22
Hannibal***	......do			.02		.03	.01		.01	.02			T.						T.		.35	.20			T.	.04			T.				0.68
Hermann ‖	Missouri									T.	T.									T.		.08			.03		T.						0.11
Jefferson City ‖	......do									.05											.10	.07			.05								0.27
Kirksville	Mississippi					.26													T.	T						.25	T.		T.				0.51
Louisiana	......do			.05		T.	.05			.05					T.					T.	.11	.05			T.		.02						0.33
Macon ‖	Chariton				.03										T.							.13			T.		.02	T.					0.18
Mexico ‖	Mississippi			T.		T.	.02		.03		.02				.01					T.		.12		.02			.03						0.25
Oakfield	Meramec						T.			T.					T.				T.	T.	.05	.03		.12	T.								0.20
Pacific ‖	......do									.03	.12									T.		.13			.14	T.							0.42
Palmyra ‖	Mississippi				T.		T.			.02										T.		.06			T.	T.	.05						0.13
St. Catherine	Grand			.01		.03	T.	T.		.02									.01		.04	T.	T.			T.							0.11
St. Charles	Missouri						T.			.25					T.						.04	.68	T.		.02		T.						0.99
St. Louis (1)***	Mississippi				T.		.01		T.	.06					T.					T.	.19	.24		.21	T.	T.							0.74
St. Louis (2)	......do					T.	.01		.01	.08					T.				T	T.	.17	.19		.16	.01	T.				T.			0.63
Shelbina	......do																																0.00
Steffenville	......do			T		.03	T			T.									T.		T.	T.			T.	T.	.07						0.10
Union ‖	Meramec						.01			.03	.10									.01		.06	.03		.08		.01						0.33
Unionville	Chariton			.20		.20													T.						T.	.04							0.44
Valley Park ‖	Meramec										.12											.22			.10								0.44
Warrenton ‖	Mississippi			T.	T.		T.				.05					T.				T.		.29	.02		.07		.02						0.45
Keokuk, Iowa***	......do			.02		.11	T.			.04				T.					T.		T.		T.		T.	.02	T.		T.				0.19
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi									.05	.25				.10					T.		.35	T.		T.		T.			.23			0.98
Caruthersville	......do						T.			23	.68				.20			T.				.30	.48	.20	T.	T.	T.		.45	.10			2.64
Doniphan	Black									.38	T.				.25							T.	.45	.07	T	T.	T.		.74				1.89
Jackson	Mississippi									1.41				.02					.02		.35		.04	T.		.03			.12				1.99
Marble Hill	......do																																......
New Madrid ‖	......do										.75				30					.10		T.	1.20	.05		.02	.01	.01		.50			2.94
Patton (near)	......do									.30					.14						.34					.03			.10				0.91
Poplar Bluff ‖	Black									.28					T.				T.			.17	.49			T.	T.		.34	T			1.28
Cairo, Ill.***	Mississippi					T.				.48				.11	.17					T.		.25	.19	.06	.02	T.	.01		.39	T.			1.68
Ozark Plateau.																																	
Arcadia ‖	St. Francis									.03	.01				.11					.02		.55	.04		T.	T.	T.	T.	T.	T.			0.76
Arlington ‖	Gasconade																																......
Aurora	White						T.							.03										T.	T.	T.			.24				0.27
Birchtree	Black									.06						.20							.10				T.		.35				0.71
Bolivar	Osage																					.22	T.	.06		T.				T.			0.28
Cassville	White			.03														.03	.01										.36				0.43
Dean	Neosho				T.					T.																			.15				0.15
Eldon	Osage			T.						.05											.08	.68	.03	.05									0.89
Farmington	St. Francis									.30				T.	.14					.03	.14	.49	.09	.03	T.	T.							1.22
Gano	Meramec					T.				.07				T.	.06				T.	.05	T.	1.05	.06	.04	T.	.05	.07						1.45
Goodland	Black														.04																		0.04
Hollister	White													T.	T.										T.	T.	.03		.56				0.59
Houston	Gasconade		T							T.				T.	.02							T.	.26	T.					.04				0.32
Kashkonong	Black									.17	T.				.10						T.	T.	.18	.08	T.	T.			.70				1.23
Lebanon ‖	Osage						T.	T.								T.				.02	T.	1.24		.13	T.	T.	T.			T.			1.39
Lockwood	......do				T.									T.																			T.
Mountain Grove ‖	White													.06							T.	T.		.17						.21			0.44
Neosho	Neosho			T.	T.					T.				T.	.17								T.				T.		.12				0.29
Rolla	Meramec					T.				.17					T				T.	.05	.15	.73		.08	T.	T.	T.						1.18
Springfield***	White			.04	T.	T.	T.			T.		T.		.14	T.							T.	.09		T.	.01	T.		.13	.01			0.42
Steelville ‖	Meramec			.10						.15												.80		.08	.04		.04						1.21
Tuscumbia ‖	Osage				.13	T.	T.			.09					T.				T.	.01	.03	.19	T.		T.	.04	T.						0.49
Southwest Plain.																																	
Amoret	Osage			.10	.04					T.													T.		T.	T.	T.						0.14
Appleton City	......do			.14	.02	T.	T.			.03														.12	T.	T.	T.						0.31
Clinton	......do			.04		T.	T.			T.												.35	T.	T.	T.	T.	T.						0.39
Harrisonville ‖	......do			.03		.04									T.							T.	T.	T.	T.	T.							0.07
Lamar ‖	Neosho				10																												0.10
Lamonte	Missouri			T.	T.					T									T.		.10	T.	T.	.10			.05						0.25
Marshall	......do			.03						T.									T.		T	T.		.05	.05								0.13
Nevada	Osage																																......
Osceola ‖	......do			.07	.04																	.20		.19									0.50
Warrensburg	Missouri																																......
Warsaw ‖	Osage			.05	T.		T.	T.		.05	T.									T.	T.	.35	T.	.10	T.	T.	.05						0.60
Waverly ‖	Missouri			T.	.06		.02			T.										T.	T.	T.	.09	.05	.06	T.							0.28
Northwest Plateau.																																	
Avalon	Grand													T.					T.		.15			T.	T.		T.		T.	T.			0.15
Bethany	......do			.25										T.				T.	T.	T.	T.					T.							0.25
Chillicothe ‖	......do																																......
Conception	Missouri		T.	.14	T.	.30			T.	T.									T.	T.					T.								0.44
Edgerton	......do			.09	.05	.07			T.						T.				.01			T.	T.	T.	.01	.01							0.24
Gallatin	Grand																																......
Grant City	......do		T.	.10	.30	T.	T.																		T.		T			T			0.40
Kansas City***	Missouri			T.	T.	.01	T.	T.	T.					T.					T.			T.	.01	.04	T.	T.	T.			.01			0.07
Kidder	Grand				.03	.07	.02													.02													0.14
Lexington ‖	Missouri			.32						.04													.03	.03	.11	T.							0.53
Liberty	......do			.05	T.	.04			T.										T.	.01			.05	.04	T.	.02							0.21
Maryville ‖	......do			.25	.15	.05	.33	T.	.03											T.						.05							0.86
Oregon	......do		T.	T.	T.	.08												T.	T.			T.		T.	T.	T.			T.				0.08
St. Joseph***	......do		T.	.14	T.	.15		T.	T	.01				T.				T.	T.					T.	T.	.01	T.		T.	T.			0.31
Tarkio	......do						.90												.01														0.91
Trenton	Grand		.01	.07	.11					T.			T.					T.	.04	T.			T.		T.	.06							0.32

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. ** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separates dates of fall not recorded

Daily temperatures for February, 1920.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	48	60	43	36	34	38	39	56	46	51	42	45	42	21	18	43	53	42	58	42	42	47	39	34	35	26	50	35	37	....	....	41.4
	Minimum	20	30	35	31	30	32	32	33	37	26	29	24	27	11	2	1	8	26	29	31	34	35	32	21	21	11	12	23	14	....	....	24.0
Columbia	Maximum	50	63	42	34	37	38	38	55	49	50	47	46	44	20	16	39	53	40	47	43	39	50	40	31	32	23	48	41	33	....	...	40.9
	Minimum	28	39	33	30	31	33	33	34	31	28	31	24	20	11	3	2	30	28	30	33	35	35	29	24	20	11	15	21	14	....	....	25.4
Hannibal	Maximum	50	62	38	31	36	36	37	46	45	47	45	39	43	20	15	38	50	38	41	40	39	48	37	31	29	21	46	33	33	....	....	38.4
	Minimum	23	36	31	29	29	32	33	34	31	29	27	28	20	4	1	1	30	27	26	31	34	34	27	20	16	9	14	20	12	....	..	23.7
Jefferson City §§	Maximum	48	61	40	35	37	38	37	58	47	52	53	43	46	22	16	38	54	41	48	47	40	50	41	32	31	22	47	36	33	....	....	41.1
	Minimum	26	27	38	29	30	29	32	31	33	29	30	22	23	17	3	3	5	30	30	31	34	35	33	23	20	12	13	14	15	....	...	24.0
Kirksville	Maximum	45	59	46	32	32	36	35	45	42	46	43	41	39	25	14	41	50	41	40	40	39	43	41	51	32	26	47	40	36	....	....	39.6
	Minimum	20	32	30	26	17	31	31	31	33	27	28	22	25	2	4	-4	26	21	21	28	30	31	28	22	11	14	8	21	9	....	....	21.3
Louisiana	Maximum	52	60	58	43	41	42	40	48	44	45	50	50	50	46	34	30	50	43	42	50	43	52	50	38	34	32	37	44	42	....	....	44.5
	Minimum	20	30	34	30	30	31	34	32	37	32	35	28	28	14	3	0	26	29	28	30	34	34	34	26	16	10	14	18	20	....	....	25.4
Macon §§	Maximum	47	61	36	33	33	33	37	50	45	48	43	41	41	17	15	41	51	40	44	40	39	55	38	31	33	23	48	35	36	..	....	39.1
	Minimum	21	27	34	28	28	29	31	31	34	27	30	26	27	7	-2	-2	4	25	24	25	31	31	30	24	15	6	8	21	10	....	....	21.7
Mexico §§	Maximum	47	64	37	33	39	37	38	53	45	50	49	43	47	23	19	38	52	39	44	44	37	51	40	35	35	25	47	37	35	....	....	40.8
	Minimum	23	25	34	29	29	30	32	32	34	29	29	28	28	11	1	0	2	24	25	29	32	33	32	23	12	9	11	20	11	....	....	22.7
Oakfield	Maximum	52	68	55	36	45	41	37	51	48	51	58	42	49	38	19	37	56	45	42	43	41	48	43	32	31	28	44	39	32	....	....	43.1
	Minimum	23	37	35	30	28	32	32	31	38	29	32	24	28	16	2	1	28	28	31	30	36	31	28	23	16	14	10	28	15	....	..	25.5
St. Catharine	Maximum	44	59	48	33	33	37	38	51	49	49	45	44	39	28	14	43	53	41	43	40	40	43	39	33	34	27	47	45	35	....	....	40.5
	Minimum	24	30	30	27	27	30	30	30	33	14	27	25	25	5	-4	-4	23	23	22	29	30	32	28	22	16	5	8	19	8	....	....	21.2
St. Louis (1)	Maximum	49	64	54	34	45	41	42	47	49	52	56	38	49	30	18	35	57	42	40	43	45	47	44	32	31	26	43	39	31	....	....	42.2
	Minimum	27	41	34	31	32	34	35	35	36	33	32	29	29	11	5	5	31	34	32	32	37	34	30	26	19	15	15	24	18	....	....	27.4
Unionville	Maximum	45	51	42	33	35	36	37	45	44	44	42	40	38	23	15	43	48	38	40	44	46	40	38	30	32	25	47	44	35	....	....	38.6
	Minimum	24	30	28	27	27	30	31	30	32	26	28	26	20	2	-5	-2	25	23	20	26	30	28	22	18	16	4	7	20	8	....	..	20.7
Warrenton §§	Maximum	53	64	38	32	45	36	36	53	47	50	53	44	48	22	17	38	53	40	43	41	39	51	38	30	30	22	47	34	32	....	....	40.6
	Minimum	22	24	29	29	27	29	31	32	32	28	29	25	28	16	2	0	4	27	26	28	31	33	32	22	15	12	10	12	12	....	....	22.3
Southeast Lowlands.																																	
Caruthersville	Maximum	63	73	68	51	50	47	51	60	58	56	60	54	67	52	34	37	53	57	60	72	67	59	49	40	38	35	43	48	37	....	....	53.1
	Minimum	29	37	49	37	33	37	39	28	44	37	39	33	32	27	20	12	27	37	37	39	57	42	39	30	29	25	16	30	23	....	...	33.3
Doniphan	Maximum	48	65	63	58	50	50	50	54	54	66	56	54	59	37	30	31	56	58	60	69	65	61	48	41	38	31	40	40	32	....	....	50.7
	Minimum	28	30	43	34	38	42	38	31	36	30	34	29	32	23	16	9	24	26	29	28	54	42	40	29	24	22	12	28	20	....	....	30.1
Jackson	Maximum	52	66	60	54	50	46	46	53	51	57	60	51	60	58	30	30	56	49	52	60	60	49	46	40	32	30	40	43	33	....	....	48.8
	Minimum	22	29	33	33	29	37	36	33	40	25	29	25	23	21	9	8	25	24	32	28	41	37	36	26	25	19	10	30	21	....	....	27.1
Marble Hill	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
Poplar Bluff	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	29	30	45	35	37	39	39	29	42	31	35	29	25	22	14	9	26	42	34	31	46	41	30	29	28	22	13	29	20	....	....	30.4
Ozark Plateau.																																	
Arcadia §§	Maximum	56	64	56	36	52	40	40	55	53	57	59	49	54	29	23	35	60	47	48	56	53	50	39	30	30	23	41	38	34	....	....	45.1
	Minimum	24	25	32	31	30	30	34	33	33	26	27	21	21	17	5	4	5	24	24	28	30	36	36	24	21	17	6	13	18	....	....	23.3
Aurora	Maximum	59	62	64	48	46	46	45	61	60	....	. .	53	46	35	26	34	55	51	60	70	68	56	42	36	36	30	49	42	33	....	....	^{b}48.7
	Minimum	29	36	45	38	40	37	33	31	40	....	...	25	35	16	15	6	28	28	35	37	46	34	33	26	20	16	15	26	17	....	....	^{b}29.1
Birchtree	Maximum	54	63	62	53	55	50	49	55	55	55	55	47	54	48	....	....	....	....	....	69	66	63	48	37	36	32	42	40	31	....	....	^{c}50.3
	Minimum	24	34	41	33	30	38	35	28	43	26	33	22	28	16	. .	....	....	....	....	24	53	38	33	25	23	15	9	25	14	....	....	^{c}28.8
Eldon	Maximum	60	69	49	38	39	40	39	61	55	54	54	47	47	30	20	38	55	49	54	53	48	53	49	33	35	41	47	45	35	....	....	46.1
	Minimum	24	33	32	30	28	30	32	26	32	24	28	19	25	11	0	0	24	25	28	30	34	32	24	20	10	9	8	24	12	....	....	22.6
Farmington	Maximum	48	61	52	40	47	40	39	55	50	53	55	49	51	41	21	36	60	50	51	52	48	45	42	20	27	25	40	40	31	....	....	44.0
	Minimum	26	38	40	30	27	36	33	33	41	29	32	25	27	17	4	6	25	31	33	32	37	34	24	28	18	16	10	31	17	....	....	26.6
Gano	Maximum	54	65	53	41	50	45	39	56	53	51	55	46	49	38	21	36	57	48	52	65	50	48	46	33	30	29	45	38	30	....	....	45 6
	Minimum	23	36	40	28	28	32	32	28	37	25	31	20	28	10	1	-1	24	26	30	34	37	34	30	22	17	10	6	29	13	....	....	24.5
Hollister	Maximum	48	63	68	62	51	50	54	58	60	57	70	54	57	45	32	42	60	58	60	74	70	65	50	44	50	48	55	53	40	....	....	55.1
	Minimum	24	30	28	38	41	41	32	28	40	24	38	38	20	20	26	5	26	30	34	40	50	40	36	30	30	20	9	24	15	....	....	29.6
Koshkonong	Maximum	52	68	64	56	55	47	53	59	63	57	65	50	59	45	28	36	59	55	59	70	66	63	46	41	38	34	44	40	32	....	....	51.9
	Minimum	27	37	46	37	32	43	37	30	43	31	39	27	31	20	16	7	25	32	35	37	55	42	36	27	25	21	13	28	14	....	....	30.8
Lebanon §§	Maximum	61	66	58	46	46	39	55	60	51	58	55	48	47	28	20	37	55	50	60	65	48	49	47	32	34	27	47	59	33	....	....	47.6
	Minimum	26	30	40	33	34	33	32	28	38	25	28	20	20	17	5	2	3	17	27	30	38	38	32	24	21	11	11	15	10	....	....	23.7
Mountain Grove §§	Maximum	48	56	63	58	54	48	45	45	56	48	55	47	48	29	20	35	56	49	63	64	66	47	37	36	34	27	42	36	35	....	....	46.4
	Minimum	22	27	30	35	33	35	33	30	22	26	31	21	22	12	6	4	6	21	28	35	38	37	34	24	21	12	11	13	14	....	....	23 6
Neosho	Maximum	65	66	62	45	47	47	53	64	60	56	52	52	48	39	34	37	59	54	66	78	65	64	44	39	40	38	52	49	34	....	....	52.0
	Minimum	26	31	44	36	42	38	28	30	42	24	31	20	32	18	16	5	28	24	30	42	54	35	34	27	21	16	13	27	17	..	....	28.7
Rolla §§	Maximum	62	71	63	42	46	45	39	60	55	54	58	47	50	42	24	36	57	52	57	61	58	52	50	37	32	29	45	43	33	....	....	48.1
	Minimum	25	39	41	31	31	34	34	31	39	28	36	23	31	18	2	2	29	28	32	35	33	36	35	24	20	12	10	31	14	....	....	27 2
Springfield	Maximum	54	61	61	43	46	41	40	57	52	51	50	46	44	28	22	34	54	49	60	67	65	42	37	34	34	25	47	37	33	...	...	45.3
	Minimum	27	39	42	37	40	36	34	31	35	31	30	27	24	16	11	8	29	32	38	41	39	36	28	25	21	13	16	22	18	....	....	28.5
Southwest Plain.																																	
Appleton City	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Amoret	Maximum	60	62	56	38	42	38	40	58	56	56	50	50	42	30	24	40	56	53	62	62	47	42	38	36	36	30	50	38	37	....	....	45.8
	Minimum	25	32	35	30	32	33	26	27	35	24	27	20	28	12	3	0	25	25	28	35	35	32	29	22	15	11	15	24	12	....	....	24.0
Clinton	Maximum	62	64	52	46	41	41	40	62	56	56	50	50	40	30	24	38	58	54	58	59	50	49	43	36	46	34	35	43	38	....	....	46.7
	Minimum	25	31	37	28	33	31	34	28	37	27	30	27	25	15	5	5	28	26	26	26	36	34	28	25	28	13	20	27	16	....	....	25.9
Harrisonville §§	Maximum	59	64	37	35	38	39	48	57	48	56	50	48	42	30	21	41	57	52	58	49	36	42	37	38	40	29	51	37	40	....	....	44.1
	Minimum	26	33	33	31	31	33	33	29	37	26	27	22	22	12	2	2	5	26	27	29	35	31	30	22	16	11	12	20	13	....	....	23.3
Lamar §§	Maximum	65	64	47	39	45	40	42	64	48	57	51	55	45	33	22	33	55	55	60	69	45	44	41	34	37	32	51	39	38	....	....	46.7
	Minimum	27	35	37	33	37	36	30	27	36	25	30	21	30	15	11	12	25	36	40	41	45	24	33	25	27	15	16	30	18	....	....	28.2
Lamonte	Maximum	52	63	59	36	36	39	42	61	56	53	50	41	42	30	22	39	53	46	51	50	41	47	44	....	40	29	41	41	35	....	....	^{a}44.5
	Minimum	29	34	35	31	31	32	34	29	38	27	29	20	29	12	2	0	27	23	30	34	35	33	26	....	20	8	13	15	15	....	....	^{a}24.7
Marshall	Maximum	58	63	60	35	34	38	38	58	53	50	45	43	42	33	18	40	42	48	50	46	43	41	....	42	33	28	48	45	34	....	....	^{a}43.1
	Minimum	25	34	33	30	32	32	33	30	36	27	31	22	31	8	1	0	27	28	28	31	34	33	..	26	20	11	20	22	13	....	....	^{a}24.9
Warsaw	Maximum	62	67	56	42	43	43	43	64	62	55	51	50	50	41	21	39	56	50	60	60	54	52	45	35	35	32	50	42	36	....	....	48.1
	Minimum	23	30	41	34	35	33	33	25	39	24	27	17	29	16	5	2	28	23	29	38	38	35	20	26	20	12	13	29	17	....	....	25.9
Northwest Plateau.																																	
Chillicothe §§	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Grant City	Maximum	43	42	35	33	33	35	35	48	47	49	47	40	39	24	12	46	48	41	45	43	43	35	35	30	36	27	47	46	45	....	....	38.9
	Minimum	25	34	30	28	29	32	31	31	33	28	30	19	20	3	-4	-4	27	27	26	30	30	28	20	20	18	5	12	22	12	....	....	22.1
Kansas City	Maximum	58	61	36	33	39	41	40	54	54	55	45	46	41	24	18	44	52	47	56	46	39	38	36	33	34	26	53	36	36	....	....	42 1
	Minimum	24	36	32	31	33	34	33	31	36	32	31	28	22	11	3	9	29	31	31	34	34	31	25	26	20	11	20	22	16	....	....	26. 1
Kidder §§	Maximum	49	58	34	32	34	26	36	55	43	50	42	45	48	21	21	50	52	44	50	48	38	37	37	44	44	26	50	38	37	....	....	41.3
	Minimum	22	28	32	30	28	31	32	32	32	26	27	20	22	8	-1	-1	2	26	28	28	32	31	29	24	24	8	8	20	20	....	...	22.3
Lexington §§	Maximum	55	63	36	35	35	38	37	58	44	53	45	44	43	33	17	43	50	48	53	45	36	40	40	34	36	25	50	34	36	....	....	41.5
	Minimum	26	36	35	30	31	33	34	30	37	28	33	22	12	23	2	2	28	30	30	30	34	32	30	23	21	10	17	25	14	....	....	25.4
Maryville §§	Maximum	48	43	33	31	33	36	35	52	42	50	34	40	36	15	13	45	48	43	48	43	33	33	29	32	34	22	47	30	36	....	....	36 7
	Minimum	20	20	30	27	27	30	29	29	29	26	27	16	16	3	-5	-5	3	21	26	26	30	26	22	19	17	5	4	17	9	....	....	18.8
Oregon	Maximum	48	47	35	34	37	38	37	54	50	49	40	43	38	22	15	45	49	45	50	44	39	36	37	31	34	24	47	37	35	....	....	39.3
	Minimum	22	31	28	27	28	29	28	29	31	26	28	19	18	5	-4	-1	23	25	26	30	28	26	20	19	18	5	13	18	10	....	....	20.9
St. Joseph	Maximum	50	49	35	32	36	38	36	53	44	52	39	45	38	20	16	46	49	46	52	42	38	35	33	31	33	25	49	32	36	....	....	39.0
	Minimum	27	35	31	31	31	33	32	32	33	31	28	24	20	8	1	5	28	30	31	33	32	30	25	23	17	10	20	21	15	....	..	24.7
Trenton	Maximum	41	53	46	34	34	37	38	49	45	47	41	47	40	24	14	42	48	43	41	41	40	38	36	35	35	25	45	40	34	....	....	39 2
	Minimum	28	33	34	29	30	32	31	32	34	20	30	23	24	6	-3	-1	28	27	27	30	31	31	30	22	20	7	13	22	12	....	....	23.9

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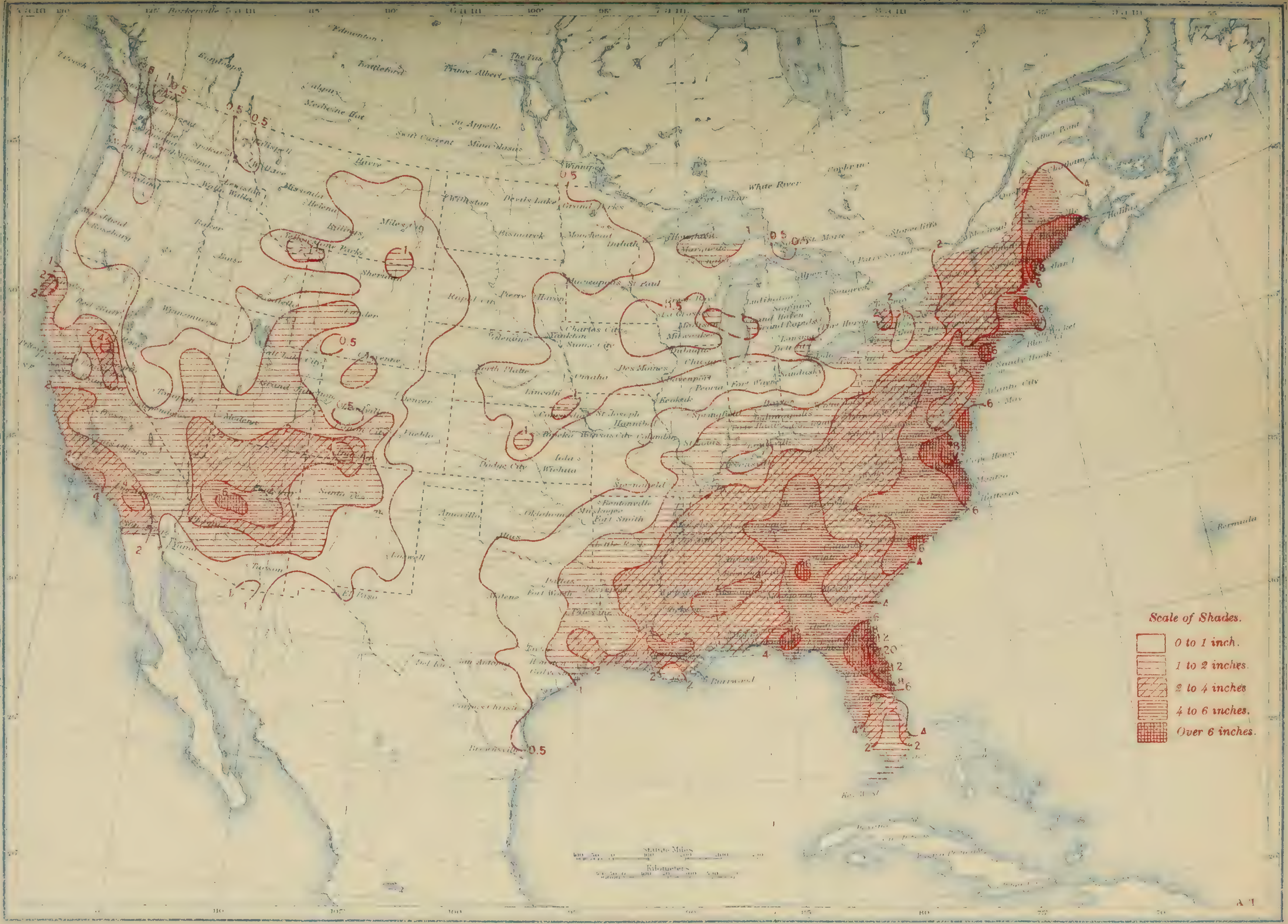
^{a}, ^{b}, ^{c}, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

Total Precipitation, Inches, February, 1920.



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WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

MISSOURI SECTION

IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

MARCH, 1920

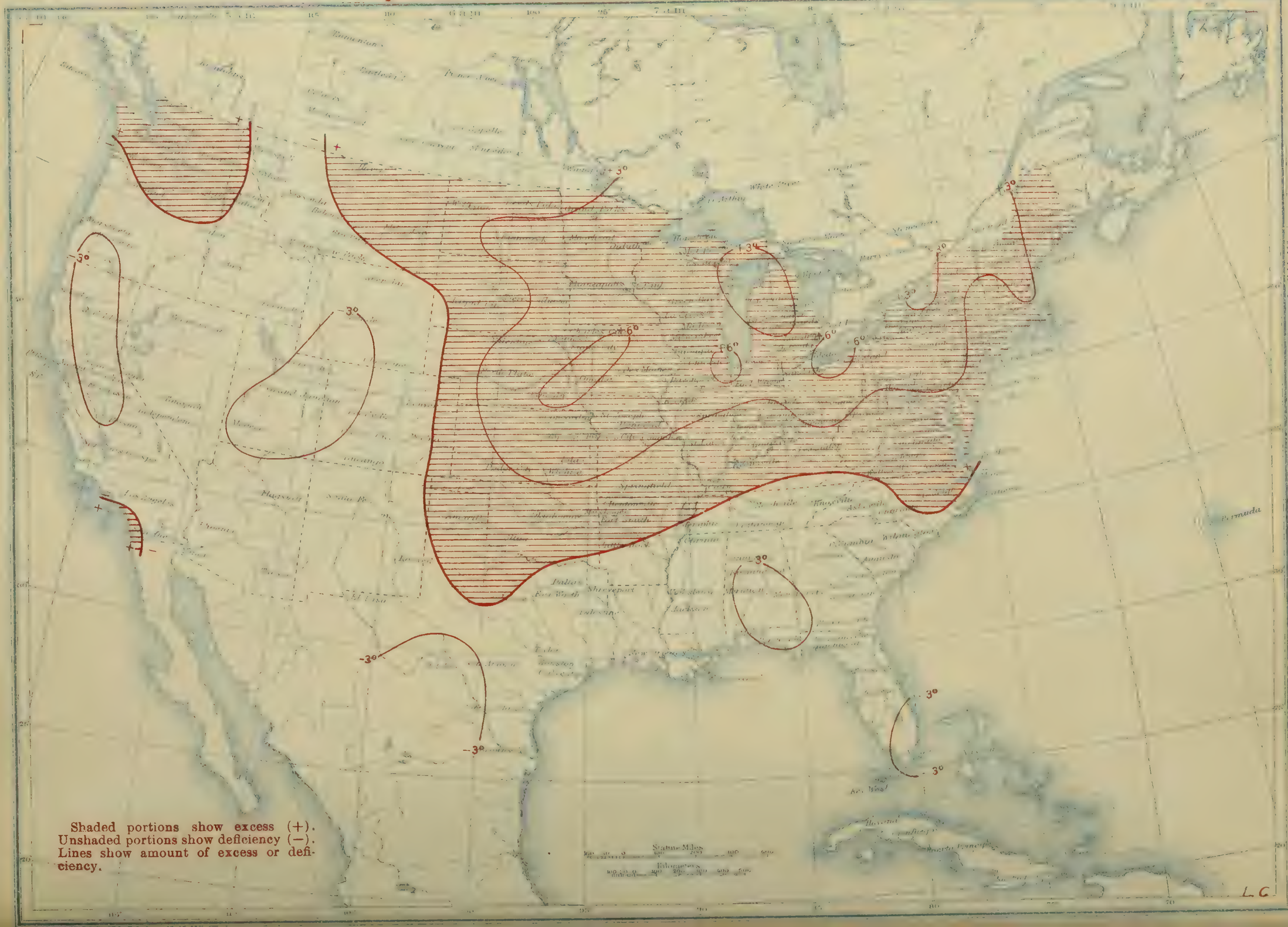
BY

GEORGE REEDER

METEOROLOGIST

COLUMBIA, MO.
WEATHER BUREAU OFFICE
MAY 28, 1920

Departure of the Mean Temperature from the Normal, March, 1920.



Shaded portions show excess (+).
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXIV. COLUMBIA, MO., MARCH, 1920 No. 3.

GENERAL SUMMARY.

March is the transition period from winter to spring. It is the time of sudden change and bluster, winter one day and spring the next, of lengthening days, and of starting life after the sleep of winter. March, 1920, in Missouri was quite typical. Though the month, for the State as a whole, averaged warmer than normal, the cold spell along about the 7th proved nearly a record breaker for so late in the month. While there were no unusually warm days there were about 20 days with normal or above normal temperatures.

High winds were the feature of this March. On about six to ten days velocities of 35 miles an hour or higher occurred, and on two days, the 25th, and 28th, winds of 50 to 60 miles an hour, and even to 70 miles for a few minutes at a time, caused quite widespread damage to trees, houses and other property; and the telegraph and telephone services were seriously handicapped and required several days to get back to normal working conditions. For a more detailed report on storms see page 24.

The prevailing condition of the ground was wet and cold, and taken together with high winds the month was unfavorable for farm work and vegetation, and also it was generally disagreeable from the side of personal comfort.

TEMPERATURE.

The monthly mean temperature, based upon reports of 68 stations, was 44.6°. The mean departure from the normal for 65 stations having 10 or more years' record was plus 1.4°. The southwestern, and northeast plains, and the northwest plateau averaged about 2° warmer than normal, while the Ozark Plateau and southeastern lowlands were cooler than normal. From about the 4th to the 8th was the coldest period, the 7th being the coldest day when minimum temperatures were around zero or lower at 34 stations; the last two weeks were quite mild, the 27th being the warmest day when maximum temperatures ranged between 75° to 80° generally. The average nuumber of days with temperature 32° or lower was 14, the same as during March, 1919.

PRECIPITATION.

The average precipitation for the State, 83 stations reporting, was 5.01 inches. The departure from the normal for 74 stations having 10 or more years' record was plus 2.09 inches. The precipitation was uniformly distributed, the northeast plain receiving somewhat less moisture than the other divisions. Precipitation was more or less general on two or three days during each decade; the heaviest falls occured on the 11-12th, and 24-25th, several stations receiving amounts in excess of 2 inches in twenty-four consecutive hours, the greatest being 6.00 inches at Avalon on the 24-25th.

The snowfall was about 40 per cent of the normal.

WIND.

The prevailing winds were from the southwest. The average wind movement, 8 stations equipped with anemometers reporting, was 11065 miles or 40 per cent greater than normal. Strong gales to severe storms prevailed on the 25th, and 28th; and strong winds of 35 miles an hour and over prevailed on from 6 to 10 other days. It was the windiest March on record. (For a more detailed report on storms see page 24.)

SUNSHINE AND CLOUDINESS.

There were 15 clear days, 6 partly cloudy, and 10 cloudy days. The average number of hours of sunshine, 6 well selected stations reporting, was 228, 62 per cent of the possible, and 7 per cent above normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense—10th, and 11th.

Halos, solar—1st, 2d, 4th, 5th, 6th, 13th, 14th, 17th, 22d, 27th, and 31st. *Lunar*—1st, 2d 4th, 5th, 7th, 11th, 16th, 25th. 28th, and 31st.

Hail—18th. *Sleet*—4th 16th, and 19th.

Thunderstorms—11th, 15th, 18th, 23d, 24th, 25th, 27th, 28th, and 31st.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Max. velocity. Direction.	Max. velocity. Date.
Columbia	29.92	73	......	215	58	9,667	13.0	61	s.	25
Hannibal	29.91	72	......	......	......	10,749	14.4	58	sw.	28
Kansas City	29.89	68	52	257	69	13,217	17.8	53	sw.	28
St. Joseph	29.87	70	51	230	62	10,336	13.9	52	w.	19
St. Louis	29.95	65	58	226	61	15,045	20.2	74	sw.	25
Springfield	29.95	74	58	222	60	11,716	15.7	51	sw.	28
Cairo, Ill	30.01	73	57	......	......	9,869	13.3	49	sw.	28
Keokuk, Iowa	29.91	69	58	221	59	8,921	12.0	52	sw.	28

SUPPLEMENTAL TABLE OF DATA.

Stations.	Length of record, years.	Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
		Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip. .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Arlington	15	......	....	......	......	....	....	....	....	......	Wm. R. Bennett.
Boonville	41	5.82	+2.82	2.20	2.5	7	15	4	12	sw.	C. Randecker.
C. Girardeau	11	4.71	+1.52	1.70	T.	8	18	1	12	s.	D. L. Albert.
Glencoe	1	3.41	....	0.75	......	9	20	1	10	...	L. M. Beard.
Hermann	44	3.36	+0.36	0.95	0.8	9	17	0	14	sw.	W. E. Crawford.
New Madrid	24	4.55	0.61	0 85	0.0	11	11	6	14	sw.	Miss Josie Smith.
Osceola	18	4.66	+2.67	1.55	......	5	....	....	....	......	Wm. E. Mathews.
Pacific	1	3.06	....	0.80	1.0	10	19	2	10	w.	Mark Waters.
Steelville	16	4.27	+2.29	1.70	2.5	10	22	0	9	s.	A. Kreamelmeyer.
Tuscumbia	1	3.60	....	1.37	T.	9	18	1	12	s.	C. B. Wright.
Union	1	4.04	....	1.42	0 7	9	19	1	11	sw.	J. Wm. Keller.
Valley Park	1	4.72	....	1.03	1.0	11	21	1	9	......	T. W. McNeese.
Waverly	3	6.21	....	2.04	2.0	5	18	0	13	sw.	F. N. Cauthorn.

COMPARATIVE DATA FOR MARCH.

Year.	Temperature.				Precipitation.				Number of Days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	38 5	−4.8	90	1	4.02	+1.11	.....	.....	10	.....	.....	.....
1889	44.3	+1.0	84	13	1.98	−0.93	.....	.....	5	.....	.....	.....
1890	37.3	−6.0	76	−11	2.61	−0.30	.....	5.7	8	.....	.....	.....
1891	36.6	−6.7	78	−11	3.01	+0.10	.....	7.1	10	.....	.....	.....
1892	38.9	−4.4	87	5	3.11	+0.20	.....	.....	8	8	10	13
1893	40.5	−2.8	86	1	2.86	−0.05	2.15	3.2	7	11	10	10
1894	47.7	+4.4	89	2	2.93	+0.02	3.20	0.2	6	15	9	7
1895	42.4	−0.9	98	0	2.14	−0.77	3.00	4.4	9	14	7	10
1896	39.2	−3.9	82	2	2.05	−0.86	4.47	5.2	8	11	9	11
1897	44.2	+0.9	93	− 5	6.07	+3.16	4.10	1.0	12	9	9	13
1898	44.7	+1.4	83	9	7.09	+4.18	3.87	0.6	11	11	7	13
1899	37.4	−4.1	78	− 8	2.93	+0.02	4.30	8.9	6	9	11	11
1900	40.4	−1.9	88	− 4	1.48	−1.43	3.41	0.2	6	15	9	7
1901	42.7	−0.6	85	− 1	3.74	+0 83	3.21	1.8	8	11	8	12
1902	45.3	+2.0	85	1	3.49	+0.58	5.60	0.8	9	10	10	11
1903	46.8	+3.5	81	9	3.35	+0.41	6.19	1.1	8	13	7	11
1904	44.8	+1.5	87	8	4.14	+1.23	7.50	1.2	9	11	9	11
1905	50.3	+7.0	88	10	2.99	+0.08	2.67	T.	8	11	8	12
1906	34.6	−8.7	75	− 5	3.93	+1.02	3.00	8.6	11	6	7	18
1907	53.9	+10.6	95	16	2.82	−0.09	3.08	1.0	7	14	7	10
1908	50.1	+6.8	89	14	2.58	−0.33	2.55	1.0	7	14	7	10
1909	44.5	+1.2	81	9	3.07	+0.16	3.30	0.6	6	13	9	9
1910	55.8	+12.5	96	15	0.66	−2.25	2.25	0.1	2	20	7	4
1911	46.8	+3.5	91	5	1.85	−1.06	2.00	1.4	6	16	8	7
1912	35.2	−8.1	89	− 4	4.62	+1.71	2.85	16.5	11	12	6	13
1913	40.6	−3.7	84	−12	4.36	+1.31	7.97	5.0	9	12	8	11
1914	43.2	−1.3	87	− 2	2.75	−0.41	3.01	4.7	8	13	7	11
1915	36.4	−8.1	70	6	1.50	−1.74	1.85	7.9	6	7	8	16
1916	47.0	+1.3	95	− 2	2.53	−0.65	4.25	3.1	7	14	8	9
1917	45.2	+1.7	86	− 7	2.91	−0.42	4.08	1.5	7	15	7	9
1918	50.9	+7.8	95	8	0.94	−2.05	2.25	0.1	4	18	6	7
1919	46.3	+2.9	90	− 2	2.40	−0 69	5.37	0.7	6	15	8	8
1920	44.6	+1.4	86	− 6	5.01	+2.09	6.00	1.04	8	15	6	10

Climatological data for March, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of days. With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Northeast Plain.																				
Brunswick	Chariton	650	39	43.6	+2.5	79	27	1	7	41	5.87	+3.39	1.95	8.0	8	18	0	13	se.	O. K. Benecke.
Clifton Hill	Randolph	731	21	45.0	+4.4	80	27	−4	7	34	5.91	+3.29	2.20	T.	8	19	5	7	.....	L. S. Harlan.
Columbia	Boone	784	31	45.6	+4.2	79	27	−1	7	37	5.03	+2.60	1.99	2.1	10	13	8	10	se.	U. S. Weather Bureau.
Fayette	Howard	725	41	44.8	+3.1	80	27	−1	7	36	5.39	+2.74	2.60	2.0	10	11	9	11	sw.	Prof. D. R. Briggs.
Fulton	Callaway	818	33	45.9	+2.1	81	27	0	7	44	3.12	+0.21	1.30	1.0	10	13	11	7	s.	Prof. Claude A. Jones.
Gorin	Scotland	700	32	.....	....	.....	......	......	......	....	4.27	+1.80	1.32	T.	6	12	5	14	sw.	J. W. Pulliam.
Hannibal	Marion	534	37	43.8	+2.2	80	27	1	7	34	4.47	+1.71	1.63	1.3	12	12	8	11	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	87	43.8	+0.7	80	27	0	7	45	2.97	+0.10	0.94	0.7	8	21	1	9	s.	Miss Emma Swift.
Kirksville	Adair	969	38	42.0	+3.4	77	27	−4	7	36	6.77	+4.06	3.16	1.0	8	17	7	7	s.	Prof. Mark Burrows.
Louisiana	Pike	469	39	45.4	+3.1	80	27	2	7	42	3.76	+1.09	1.10	2.0	8	17	4	10	s.	J. T. Farrell.
Macon	Macon	875	26	42.6	+0.4	79	27†	−1	7	49	4.69	+2.17	1.22	3.0	7	15	5	11	se.	W. C. Brown.
Mexico	Audrain	797	41	42.6	+1.3	80	27	2	7	49	4.11	+1.44	1.63	0.2	9	18	3	10	w.	Mrs. Abbie Snoddy.
Oakfield ‡‡	Franklin	793	38	46.4	+1.6	80	27	3	7	34	3.23	−0.54	1.29	1.5	6	12	10	9	s	E. E. Steines.
Palmyra	Marion	652	20	40.2	+0.8	79	27	1	7†	43	4.98	+2.07	1.86	1.0	9	16	6	9	sw.	W. B. Markell.
St. Catherine	Linn	850	9	42.4	....	74	27	−6	7	37	6.20	....	2.55	2.2	8	13	8	10	s	L. D. Baker.
St. Charles	St. Charles	456	41	45.7	+2.2	81	27	3	7	39	1.67	−1.47	0.58	1.2	7	13	10	8	s	L. C. Saeger.
St. Louis (1)	St. Louis City	717	83	46.6	+3.1	80	27	7	7	31	3.97	+0.54	1.11	1.9	9	15	6	10	sw.	U. S. Weather Bureau.
St. Louis (2)	......do	578	8	46.3	....	80	27	5	7	31	4.37	....	1.42	6.4	9	18	3	10	se.	St. Louis University.
Shelbina	Shelby	779	27		....	...	......		......	....	6.47	+3.85	1.80	....	6	....	....	....	....	S. G. Parsons.
Steffenville	Lewis	650	26	42.8[a]	+1.4	80	27	−3	7	41	4.36	+1.54	1.28	2.0	6	13[a]	8[a]	9[a]	sw.	Frank Hall.
Unionville	Putnam	1,072	27	42.5	+5.1	76	27	−3	7	37	4.51	+2.20	2.86	2.0	6	18	4	9	s.	Geo. W. Davis.
Warrenton	Warren	865	38	43.0	+1.5	82	27	0	7	46	3.49	+0.20	1.02	1.5	9	11	8	12	s.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	48	42.6	+4.7	78	27	0	7	34	4.02	+1.65	1.53	3.3	10	11	10	10	s.	U. S. Weather Bureau.
Section means and	extremes	....	....	44.0	+2.5	82	27	−6	7	49	4.51	+1.62	2.86	2.0	8	15	6	10	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	29	51.8	+0.7	86	27	16	1	41	3.39	−0.46	0.68	T.	9	18	3	10	e.	H. E. Averill.
Doniphan	Ripley	344	16	47.8	−1.8	79	27	12	7	36	7.45	+4.18	2.2	T.	7	19	2	10	s.	W. W. Martin.
Jackson	Cape Girardeau	458	30	46.8	−0.4	82	27	9	7	41	8.74	+4.57	2.60	1.5	10	12	7	12	s.	L. M. Bean.
Marble Hill	Bollinger	420	26	.....	....	....	......	......	......	....	......	....	......	......	....	....	....	....	......	F. W. Wells.
Patton (near)	Bollinger	500	10		....	...	...	......	......	...	7.16	+3.53	1.79	0	7	....	....	...	.....	George F. Ellis.
Poplar Bluff	Butler	339	16	47.6	−1.1	82	27	11	6	43	6.10	+1.69	1.32	0	9	17	0	14	......	Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill.	359	45	47.9	+0.9	77	27	13	7	27	3.94	−0.08	1.68	0.2	11	12	7	12	s.	U. S. Weather Bureau.
Section means and	extremes	....	....	48.4	−0.3	86	27	9	7	43	6.13	+2.24	2.60	0.5	7	16	4	11	s.	
Ozark Plateau.																				
Arcadia	Iron	925	42	44.2	−0.6	79	27	5	7	41	7.84	+3.82	1.67	1.1	10	13	6	12	w.	Arcadia College.
Aurora	Lawrence	1,370	....	47.0	+1.4	78	26	2	7	40	5.00	+1.32	3.11	1.2	7	15	7	9	s.	C. D. Sprague.
Birchtree	Shannon	1,078	26	44.6[a]	−3.1	79	26	5	7	38	6.70	+2.47	1.96	T.	6	18[a]	1[a]	11[a]	s.	V. H. Kirkendall.
Bolivar	Polk	1,071	33	46.6	+0.6	77	27	0	7	42	4.04	+0.98	3.20	2.5	7	14	9	8	s.	K. H. Brown.
Cassville	Barry	1,475	21	44.3	−1.9	72	26†	2	7	47	3.59	−0.35	1.50	1.0	8	16	9	6	s.	R. H. Wallen.
Dean ‡‡	McDonald	1,000	21	46.8[b]	−2.2	77	28	−1	7	43	4.24	+0.83	3.12	0	6	20[b]	1[b]	8[b]	sw.	H. E. Dean.
Eldon	Miller	934	21	43.8	+0.4	79	27	−2	7	45	2.83	−0.08	2.00	T.	3	13	11	7	s.	E. H. Shepherd.
Farmington	St Francois	918	23	45.2	−1.7	80	27	4	7	38	5.76	+2.55	1.24	3.5	10	15	6	10	sw.	Robert Forsyth.
Gano ‡‡	Dent	1,250	18	44.6	−2.4	80	27	1	7	37	5.26	+1.99	2.36	0.8	7	17	4	10	s.	A. C. Leach.
Goodland	Iron	1,600	27	43.5	−1.4	80	27	4	7†	45	7.43	+3.23	2.10	0	5	19	1	11	s.	F. M. Adams.
Hollister	Taney	735	17	49.0	+0.4	80	26†	5	7	46	6.04	+2.95	2.80	0.7	5	21	0	10	sw.	W. P. Chapman.
Houston	Texas	1,280	27	46.7	+0.2	80	27	4	7	40	6.27	+2.12	3.00	2.5	8	13	7	11	se.	R. F. Harmon.
Koshkonong	Oregon	958	19	47.2	−2.4	80	27	8	7†	39	8.09	+4.50	2.20	3.0	7	13	7	11	sw.	R. M. Hitt.
Lebanon	Laclede	1,265	32	44.6	−0.9	76	30	−4	7	45	4.37	+0.90	1.25	0.8	6	13	12	6	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	24	47.3	−0.5	75	30	−1	7	35	6.13	+3.77	3.68	2.0	5	19	7	5	sw.	C. S. Crow.
Mountain Grove	Wright	1,490	23	42.0	−4.2	77	27	1	7†	37	7.35	+3.05	3.27	1.2	10	10	4	17	sw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	48.9	+0.8	78	27	−3	7	44	5.69	+2.23	3.24	1.5	8	22	5	4	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,139	36	46.6	+1.9	80	27	2	7	39	6.06	+2.52	2.66	2.0	6	18	7	6	sw	Prof. Elmo G. Harris.
Springfield	Greene	1,350	42	45.6	+2.1	76	27	1	7	30	4.90	+0.83	2.38	4.1	12	16	8	7	se.	U. S. Weather Bureau.
Section means and	extremes	......	....	45.7	−0.7	80	26†	−4	7	47	5.66	+2.09	3.68	1.5	7	16	6	9	s.	
Southwest Plain.																				
Amoret	Bates	831	13	46.4	+3.0	77	27	−2	7	40	4.85	+2.36	2.12	0.5	8	18	5	8	sw.	Darby Fruit Farm.
Appleton City	St. Clair	853	28	46.9	+2.5	77	27	−2	7	38	6.37	+3.36	3.27	0.5	7	15	9	7	sw.	W. G. Bigelow.
Clinton	Henry	765	33	46.9	+2.9	78	27	0	7	40	6.35	+3.51	3.11	0.7	8	11	13	7	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	912	44	43.6	+2.8	77	21	−1	7	47	5.08	+2.45	2.39	1.0	6	13	7	11	s.	John H. Patterson.
Lamar	Barton	980	39	45.9	−0.2	75	30†	−2	7	49	4.73	+1.85	2.10	0	5	18	2	11	s.	Joe W. Springer
Lamonte	Pettis	863	33	43.8[a]	+0.2	77	27	−5	7	50	6.62	+4.14	4.20	4.0	5	11[a]	11[a]	8[a]	sw.	J. Ed. Hall.
Marshall	Saline	779	31	45.6[b]	+3.4	79	27	1	7	41	5.16	+2.50	3.30	0.2	6	18[b]	4[b]	7[b]	sw.	Dr. W. H. Black.
Nevada	Vernon	860	28	46.4	+2.4	77	27†	−1	7	41	5.68	+2.72	2.87	T.	5	17	3	11	s.	George A. Kaupp.
Warrensburg	Johnson	883	42	......	....	....	.....	.....	.....	....	......	......			....	....	....	....	....	Geo. H. Collins.
Warsaw	Benton	715	25	47.0	+0.1	80	27	2	7	42	7.40	+4.26	3.65	5.5	10	9	14	8	w.	J. R. Smith, M. D.
Section means and	extremes	....	....	45.8	+1.9	80	27	−5	7	50	5.80	+3.02	4.20	1.4	7	14	8	9	sw	
Northwest Plateau.																				
Avalon	Livingston	730	30	44.4	+3.1	75	27	0	7	33	9.10	+6.22	6.00	2.2	8	15	10	6	sw	F. G. Ashbaugh.
Bethany	Harrison	916	28	43.9	+5.0	76	27†	−2	7	36	4.72	+2.53	2.45	T.	8	12	12	7	sw.	M. H. Moulton.
Chillicothe	Livingston	768	15	......	....	.....	......	......	......	....	.....	....	....	.....	....	....	....	....		R. L. Isherwood.
Conception	Nodaway	982	35	42.8	+4.4	77	31	−3	7	46	3.24	+1.54	1.44	0.5	6	10	11	10	sw.	Fr. Adelhelm Hess.
Edgerton	Platte	856	....	44.6	....	78	31	1	7	45	3.47	....	1.45	1.5	8	16	5	10	sw.	H. Killingsworth.
Gallatin	Daviess	803	....	.....	....	.....	.....	......	......	....	.....	....	....	.....	....	....	....	....	.....	....
Grant City	Worth	1,134	29	42.9	+3.0	76	31	2	7	38	5.01	+3.06	2.41	0	6	14	6	11	sw.	W. H. Campbell.
Kansas City	Jackson	963	31	45.3	+4.5	75	27	3	7	32	4.32	+1.50	1.99	2.0	10	14	10	7	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	33	40.8	+0.4	75	31	−1	7†	50	3.40	+1.17	1.62	2.0	7	17	5	9	sw.	J. F. Sharp.
Lexington	Lafayette	688	38	45.2	+2.4	76	27	1	7	38	7.08	+4.81	3.25	0.2	6	18	0	13	s.	J. W. Keithley.
Liberty	Clay	864	30	45.8	+3.7	76	27†	−1	7	39	4.05	+1.50	1.38	1.4	11	11	11	6	sw.	James H. Harris.
Maryville	Nodaway	1,036	30	38.4	+2.1	76	31	−5	7†	61	2.98	+1.09	0.93	0.5	7	17	7	7	s.	J. R. Brink.
Oregon	Holt	1,048	64	41.8	+2.9	77	31	−4	7	36	3.97	+1.94	1.75	T.	6	18	6	7	se.	Tom Curry.
St. Joseph	Buchanan	967	46	44.2	+1.9	77	31	1	7	35	5.05	+3.04	3.66	0.2	9	14	9	8	se.	U. S. Weather Bureau.
Tarkio	Atchison	976	27	42.9	+4.1	78	31	−3	7	40	1.35	−0.37	0.50	0	6	20	3	8	sw.	John F. Frazier
Trenton	Grundy	822	25	42.4	+2.2	73	27	0	7	35	5.44	+3.20	2.85	T.	5	14	7	10	s.	W. H. Estes.
Section means and	extremes	....	....	43.2	+3.1	78	31	−5	7†	61	4.51	+2.40	6.00	0.8	7	15	7	9	sw.	
State means and	extremes	....	....	44.6	+1.4	86	27	−6	7	61	5.01	+2.09	6.00	1.4	8	15	6	10	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Oakfield, Pacific, R. F. D. No. 1; of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily precipitation for March, 1920.

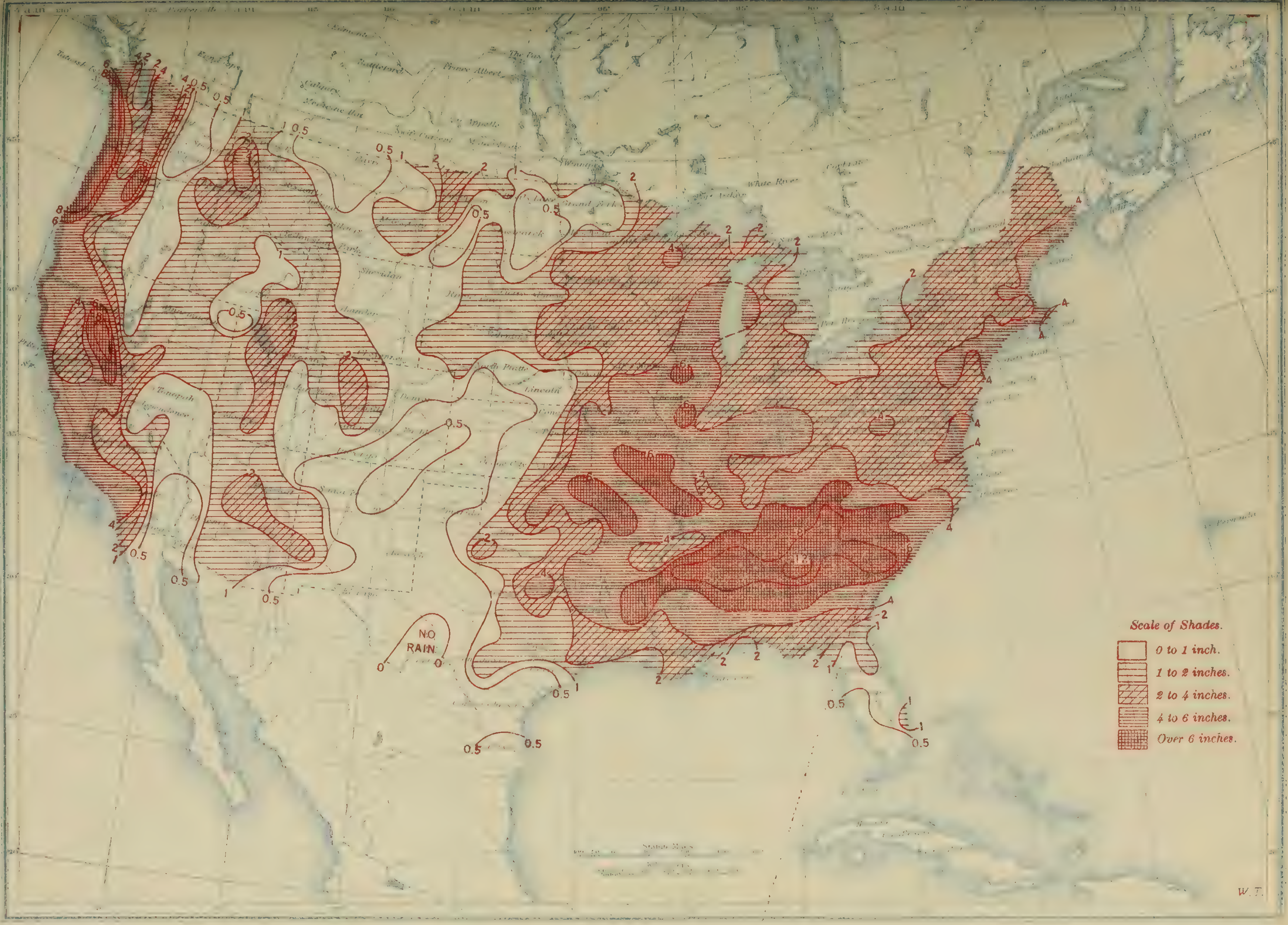
Stations.		Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville ‖	Missouri				.35	T.		.02				.18	2.05							.18						.84	2.20		T.				5.82
Brunswick ‖	Grand				.70			.06				.03	1.52						.08	.05						1.48	1.95						5.87
Clifton Hill	Chariton				.35		T.				.03	1.87	.40						.60						.02	2.20	.44						5.91
Columbia***	Missouri			.19	.60		.01				.04	1.95	.09			T.		T.	.16	T.				T.	.23	1.73			.03				5.03
Fayette	do			.02	.20		.06				20	1.85	.22			.01			.18	T.					.05	2.60			T.				5.39
Fulton	do				.25		.07				.13	.80	.07						.20					T.	.01	1.30	.20		.09				3.12
Glencoe ‖	Meramec				.55	.05						.27	.72				.15			.45					.22	.75	.25						3.41
Gorin	Mississippi			.58							T.	.72							.45					.01	1.19	1.32							4.27
Hannibal***	do			.09	.65		.01				.11	1.46	.17			T.			1.10	.01				T.	.03	.81	.02		.01				4.47
Hermann ‖	Missouri				.18	.02		T.				.25	.95	.02						.17					.03	.80	.94						3.36
Jefferson City ‖	do				.12	T.		.01				.15	.65							.45						.94	.60		.05				2.97
Kirksville	Mississippi			T.	.59		T.				.01	.48	.32						.27	.02				T.	1.92	3.16			T.				6.77
Louisiana	do				.35		.02				.30	.40	.90			T.			.44							1.10	.25						3.76
Macon ‖	Chariton				.85		.18	.03					1.22							.51						1.18	.72	T.					4.69
Mexico ‖	Mississippi				.55			.06				.25	1.63							.12	T.				.02	.66	.80		.02				4.11
Oakfield	Meramec			T.	.53		T.				.07	.81				T.			.26						.27	1.29			T.				3.23
Pacific ‖	do				.39	.05		.05				.26	.54				.19			.21					.12	.80	.45						3.06
Palmyra ‖	Mississippi				.68							.27	1.86						.17	.75	.01					.57	.62		.02				4.98
St. Catherine	Grand			T.	.53		.02				T.	.55	.25						.45	T.					1.81	2.55	.04						6.20
St. Charles	Missouri			.02	.10		28				T.	.50							.06						.13	.58							1.67
St. Louis (1)***	Mississippi			.29	.51		.02				.06	1.11				.28	T.		.50	T.					.77	.43			T.				3.97
St. Louis (2)	do			.43	.59		.05				.12	1 42				.19	T.		.50						.52	.55							4.37
Shelbina	do				1.35							1.80	.47						1.25							1.40	.20						6.47
Steffenville	do			.03	1.28		T.				T.	1.00	.30						.50					T.	T.	1.25							4.36
Union ‖	Meramec				.21	.06		.01				.40	1.04				.02								.10	1.42	.78						4.04
Unionville	Chariton				.75		T.					T.	.25						.30						1.46	1.40	.35	T.	T.				4.51
Valley Park ‖	Meramec				.90	.10	.10	.15				1.03	.70				21			.28					.31	.70	.24						4.72
Warrenton ‖	Mississippi				.42	.15		.02				.17	1.02							.05					.12	.94	.60			T.			3.49
Keokuk, Iowa***	do			.12	.30		T.				.03	1.16	.04						61	.06				T.	.56	1.13			.01				4.02
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi				.65	T.		T.				.62	.80				1.70	T.		.60					.02	.25	.07		T.				4.71
Caruthersville	do			.08	.65	T.					10	.60	.15				.50		.18	.68					T.	T.			T.			.45	3.39
Doniphan	Black			.35	2.20						T.	1.60					1.30		.30						.20	1.50							7.45
Jackson	Mississippi			.45	1.70			.02		.10		.10	1.76			2.6			.60						.65	.76							8 74
Marble Hill	do																																....
New Madrid ‖	do				.90	.22	.01					.70	.85				.25	.40		.65					.02	.20	.35						4.55
Patton (near)	do				1.14						1 25	1.75				1.79			.55						.15	.53							7.16
Poplar Bluff ‖	Black			.27	1.32			T.			T.	1.27	.13				.97		.27						.10	1.17					.60		6.10
Cairo, Ill.***	Mississippi			.52	.27	T.	T.	.01		T.	.04	1.67	.01			T.	.31		.42						.05	.32						.32	3.94
Ozark Plateau.																																	
Arcadia ‖	St. Francis				1.34	.80		T.			T.	.67	1.67				.80	.06		.61					.18	1.30	.41						7.84
Arlington ‖	Gasconade																																....
Aurora	White				.27		T.					1.16	.13				.12		.06							3.11			.15				5 00
Birchtree	Black				1.50							1.62					1.30		.11						.21	1.96							6.70
Bolivar	Osage				.59		.02					.03	.03													3.20	.12		.05	T.			4.04
Cassville	White				.01	.06	.05				.51	1.40	.03						.03							1.50							3.59
Dean	Neosho			.10							T.		73				.07		T.							3.12			.18			.04	4.24
Eldon	Osage						T.						.52					.31								2.00							2.83
Farmington	St. Francis			.16	.99			.02			T.	.98	.72				.50		.65		.02				.48	1.24							5.76
Gano	Meramec			T.	.60		T.	T.			T	1 15	.07			T.	T.		.46						.50	2.36			.12				5.26
Goodland	Black									2 00							2.10		.33						1.00	2 00							7.43
Hollister	White			.04								2.80					T.		.20						.30	2.70							6.04
Houston	Gasconade			T.	.71		.04		.19		T.	1.30				T.	.62		.20	T.					.21	3.00							6.27
Koshkonong	Black				1.97			T			.24	2.00					1 10		.08						.50	2.20							8.09
Lebanon ‖	Osage					.60		T.				.26	1.03			T.	T.								.08	1.15	1.25						4.37
Lockwood	do				.82						T.	.93							T.						.65	3.68	.05						6.13
Mountain Grove ‖	White				.83	.12						.24	.61				.83	.18								.25	3.27	.60	.42				7.35
Neosho	Neosho			T.	.87		.10				.02	.92	.26				T.		.03					T.		3.24			.25				5.69
Rolla ‖	Meramec			T.	.50		T.				T.	2.66	.12			T.			.14						.24	2.40							6.06
Springfield***	White			.01	.20		.06				06	2 08	.01				.01		.02					.04	.24	2.14						.03	4.90
Steelville ‖	Meramec				.35	.05		.03				.20	.85							.12					.30	1.70	.60		.07				4.27
Tuscumbia ‖	Osage				.18	.03					T.	.17	.82						T.	.25					.05	1.37	.71		T.	.02			3.60
Southwest Plain.																																	
Amoret	Osage				.01		T.				.32	1.17	.18						T.						.50	2.42	.12		.13				4.85
Appleton City	do			T	.21		T.				.27	2.13	.08						T.						.33	3.27	.08			T.			6.37
Clinton	do				.02	.05					.05	2.30	.10												.04	3.11	.68						6.35
Harrisonville ‖	do				.42							.06	1.03													2.39	.99		.19				5.08
Lamar ‖	Neosho										.33	.50	1.05													2.10	.75						4.73
Lamonte	Missouri			T.	.12		.05				.25	2.00							T.	T.						4.20							6.62
Marshall	do			T.	.22	T.					.10								.51						.23	3.30	.80						5.16
Nevada	Osage				.03		T.				.36	2.00													.42	2 87							5.68
Osceola ‖	do				.04							.35	1.37													1.55	1.35						4.66
Warrensburg	Missouri																																....
Warsaw ‖	Osage			T.	.45	.10	.15		T.		.38	2.07	.12						T.					T.	.10	3.65	.20		T.	.18			7.40
Waverly ‖	Missouri				.44			T.			T.	T.	1.49							.41						2.04	1.83		T.				6.21
Northwest Plateau.																																	
Avalon	Grand				1 00		.25					1.00							.40						4.50	1.50			.25			.20	9 10
Bethany	do			.19	T	T.							.60						.25					.30	2.45	.68	.15	T.	.10				4.72
Chillicothe ‖	do																																....
Conception	Missouri			.20	T.		T.					.82	.14					T.	T					.29	1.44	.35			T.				3.21
Edgerton	do			05	.35		T.				T.	.13	.46											.06	1.45	.87	.10		T				3.47
Gallatin	Grand																																....
Grant City	do			.66								T.	.92						.21	T.				.22	2.41	.59							5.01
Kansas City***	Missouri			.24	.11		.02				T.	1.03	.09						.07					.01	1.71	.94		.10	T.				4.32
Kidder ‖	Grand				.40			T.	T.				.40						.06					.10		1.62	.77		.05				3.40
Lexington ‖	Missouri				.04								1.60							42						3.25	1.63		.14				7.08
Liberty	do			.02	.35		.01				.02	.40	48						.20					.01	1.13	1.38			.05				4.05
Maryville ‖	do				.22		T.	T.					.93						T.	.12				.20	.67	.45	.39		T.	T.			2.98
Oregon	do				.28		T.						1.75											.20	1.28	.43			.03				3.97
St. Joseph***	do			.27	.01		T.					.61	.06					T.	.01				T.	.10	3.64	.33		.02	T.				5.05
Tarkio	do			.50																				.25	.25	.26			.08			.01	1.35
Trenton	Grand		T.	.54			T.					.60							.21	T.				T.	2.85	1.24			T.				5.44

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch ** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. † Separate dates of fall not recorded

Daily temperatures for March, 1920.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	55	62	54	28	25	19	24	46	53	59	54	44	45	72	62	55	52	62	44	51	62	75	69	66	60	69	79	59	63	74	78	55.5
	Minimum	17	25	34	17	8	9	1	10	24	32	41	32	25	31	42	39	25	32	37	28	26	38	47	54	54	39	43	52	35	41	42	31.6
Columbia	Maximum	50	58	54	51	23	18	18	46	51	59	62	51	45	71	64	54	51	62	50	49	60	73	68	68	61	64	79	66	60	73	76	56.1
	Minimum	20	34	38	14	7	7	−1	16	35	43	50	32	26	38	48	37	28	43	36	29	28	45	55	56	45	40	52	42	36	48	58	35.0
Hannibal	Maximum	50	55	49	45	21	16	18	43	55	53	60	49	46	62	55	52	48	57	51	41	57	72	67	64	63	61	80	67	59	71	77	54.0
	Minimum	22	33	35	13	7	7	1	16	35	35	46	32	27	31	49	37	29	37	32	30	28	39	54	57	44	41	46	42	37	46	56	33.7
Jefferson City §§	Maximum	51	45	57	32	23	20	22	47	65	60	61	40	50	72	58	57	54	60	47	55	59	72	67	65	63	67	80	61	63	74	75	55.5
	Minimum	17	24	32	30	7	9	0	6	20	35	45	33	26	30	37	44	30	32	40	30	27	32	35	53	55	39	41	56	35	42	50	32.0
Kirksville	Maximum	54	58	52	42	22	17	20	44	50	59	54	50	46	62	59	51	46	43	53	39	57	72	65	62	56	60	77	56	59	70	76	52.7
	Minimum	20	33	31	15	5	3	-4	14	34	33	41	28	22	31	51	36	24	34	35	28	25	36	48	50	47	35	44	42	33	42	50	31 3
Louisiana	Maximum	48	50	55	48	25	22	22	40	58	64	60	58	41	60	66	62	66	48	56	40	58	70	70	70	65	63	80	78	74	70	72	56.8
	Minimum	24	27	34	20	9	8	2	12	35	32	38	33	28	28	52	48	48	38	38	30	25	40	48	54	53	40	38	38	38	45	48	33.9
Macon §§	Maximum	52	59	56	25	24	31	27	50	56	61	58	47	50	74	63	53	52	55	40	40	65	75	67	61	58	69	79	57	61	76	79	55.6
	Minimum	16	26	30	11	3	3	-1	4	21	34	41	29	23	25	39	38	26	30	35	29	27	31	47	52	53	36	40	50	34	40	48	29.7
Mexico §§	Maximum	51	57	53	27	24	26	21	45	57	58	61	39	47	69	61	56	51	56	40	50	61	75	68	62	61	65	80	62	61	74	79	54.8
	Minimum	14	26	32	20	5	5	2	5	21	33	41	32	25	31	41	39	26	30	37	30	24	26	42	54	48	38	40	53	34	36	49	30.3
Oakfield	Maximum	50	54	47	52	26	25	22	47	61	56	61	55	47	68	68	60	53	54	56	56	60	71	69	60	68	67	80	76	63	74	75	57.5
	Minimum	20	30	36	20	8	9	3	13	31	42	51	34	26	36	55	45	29	39	37	29	29	40	49	50	52	43	52	53	37	45	55	35.4
St. Catharine	Maximum	53	57	52	48	22	19	21	44	53	59	51	50	44	66	62	55	47	49	49	43	55	61	65	63	59	60	74	69	59	69	73	53.4
	Minimum	16	32	33	16	5	4	-6	13	30	35	45	27	21	30	52	35	21	35	35	26	23	41	52	51	41	34	52	43	32	41	48	31.3
St. Louis (1)	Maximum	48	54	49	49	24	22	19	46	62	58	60	54	48	65	67	59	50	51	56	54	54	69	67	59	67	66	80	71	61	72	73	56.0
	Minimum	24	34	36	19	12	13	7	15	34	46	51	31	31	39	55	44	35	40	37	33	36	44	49	52	51	46	52	44	41	48	57	37.3
Unionville	Maximum	55	58	54	42	23	20	23	50	55	58	57	50	45	66	61	53	47	44	51	40	58	73	65	66	54	60	76	70	57	70	75	54.1
	Minimum	20	30	28	14	3	5	-4	14	30	33	40	26	22	30	50	35	22	33	34	28	25	36	40	50	40	34	42	43	32	40	50	29.9
Warrenton §§	Maximum	51	58	50	27	23	20	23	47	61	56	58	37	45	70	67	57	53	58	40	50	61	74	69	61	63	66	82	67	61	75	75	55.1
	Minimum	13	23	30	25	7	7	0	1	20	26	45	31	27	27	41	45	27	30	39	29	28	32	45	51	53	41	41	52	36	38	46	30.9
Southeast Lowlands.																																	
Caruthersville	Maximum	50	54	54	52	36	39	35	51	54	55	65	62	61	72	66	65	66	66	65	65	69	79	76	76	75	78	86	81	74	82	71	63.8
	Minimum	16	31	35	27	20	19	17	19	30	49	51	41	31	37	55	48	41	45	48	41	37	40	40	55	59	52	52	63	41	41	51	39.7
Doniphan	Maximum	45	52	51	50	32	33	28	45	48	55	65	64	61	68	78	65	56	58	62	61	62	70	69	65	69	72	79	73	61	74	65	59.3
	Minimum	10	28	31	24	15	16	12	15	29	45	52	34	28	42	46	45	31	44	42	31	31	35	46	55	55	50	45	63	36	38	47	36.3
Jackson	Maximum	48	51	48	49	30	27	30	45	52	54	60	60	52	65	62	64	57	52	55	60	60	72	69	64	68	72	82	73	70	75	72	58.0
	Minimum	12	24	35	22	14	14	9	17	30	40	49	38	30	37	55	43	34	41	42	28	29	31	57	52	51	50	43	61	37	34	42	35.6
Marble Hill	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
Poplar Bluff	Maximum	35	45	50	50	35	27	25	33	72	56	62	64	56	69	65	69	61	55	60	60	64	72	71	66	70	73	82	72	66	75	67	59.1
	Minimum	20	15	29	22	15	11	12	18	29	46	51	40	29	39	55	45	32	42	32	30	30	35	49	57	55	49	45	64	38	40	46	36.2
Ozark Plateau.																																	
Arcadia §§	Maximum	52	50	51	42	29	21	27	48	57	55	61	40	53	65	65	60	58	58	45	60	64	70	67	59	65	71	79	70	64	75	69	56 4
	Minimum	16	20	27	36	9	10	5	7	16	31	46	39	27	28	39	42	31	35	40	28	25	31	38	51	52	45	42	53	37	34	49	31.9
Aurora	Maximum	47	54	54	51	25	22	22	47	60	67	61	57	58	70	65	59	58	65	59	58	69	72	68	65	62	78	76	72	60	76	73	59.0
	Minimum	19	32	39	11	8	14	2	14	32	47	50	31	27	37	55	43	32	46	37	26	31	44	51	52	46	41	55	42	32	41	51	35.1
Birchtree	Maximum	43	52	49	44	31	22	25	45	55	53	63	52	54	67	63	61	58	53	50	60	65	69	67	60	64	79	70	....	63	73	67	a55.9
	Minimum	8	26	35	18	9	12	5	10	26	43	49	34	27	35	51	45	30	42	38	26	27	40	45	47	51	52	47	....	31	38	52	a33.4
Eldon	Maximum	60	59	59	33	24	22	22	46	62	63	65	56	51	71	55	57	66	62	59	55	72	70	70	65	60	68	79	63	61	73	70	58.0
	Minimum	24	25	14	15	5	6	-2	8	28	32	36	30	30	26	25	22	51	22	34	24	34	49	51	46	42	36	43	41	36	37	49	29.5
Farmington	Maximum	53	45	45	41	25	21	25	47	53	52	58	53	47	67	63	58	59	56	52	59	62	73	61	58	68	73	80	70	67	73	64	55.8
	Minimum	21	33	29	19	9	11	4	9	31	45	50	34	27	36	53	40	30	40	38	29	30	37	40	42	53	45	54	58	36	39	49	34.5
Gano	Maximum	50	53	46	45	23	20	19	45	61	57	60	52	49	69	64	60	60	54	52	55	52	70	68	60	64	68	80	78	62	74	69	56.1
	Minimum	17	27	34	16	4	8	1	8	28	43	49	31	22	36	53	35	38	41	35	28	25	40	49	47	50	40	49	48	32	40	53	33.2
Hollister	Maximum	54	52	55	53	38	40	40	53	64	67	67	60	72	75	78	65	60	63	64	65	75	71	70	65	61	80	80	74	70	80	76	61.1
	Minimum	8	25	42	10	18	9	5	10	23	49	50	35	29	30	59	44	30	46	41	28	30	34	50	54	50	42	41	50	33	34	45	34.0
Koshkonong	Maximum	43	51	51	52	28	31	24	47	57	57	64	58	55	70	65	63	59	59	60	61	67	71	67	61	66	73	80	70	64	70	68	58 5
	Minimum	14	29	28	20	11	14	8	8	28	45	51	37	29	35	55	40	31	44	40	32	33	41	46	53	54	46	50	54	36	40	48	35.9
Lebanon §§	Maximum	49	54	50	51	27	22	21	45	61	65	58	59	65	70	65	58	59	60	40	58	65	70	60	60	61	70	72	68	61	76	70	57.1
	Minimum	19	21	32	21	5	7	-4	7	16	33	48	33	28	35	54	42	27	41	37	25	27	44	45	50	55	39	39	53	30	32	47	32.0
Mountain Grove §§	Maximum	42	52	50	28	27	22	23	35	48	63	52	51	53	68	54	55	52	53	41	56	66	66	58	59	60	71	77	63	68	71	66	53.3
	Minimum	18	22	28	28	7	7	1	1	15	28	35	32	35	36	39	38	30	33	36	27	29	35	38	49	51	40	49	52	33	36	42	30.6
Neosho	Maximum	50	59	61	60	27	24	26	50	63	70	69	59	62	71	69	68	60	70	65	59	70	70	70	69	66	75	78	76	76	75	74	62.6
	Minimum	15	35	42	16	9	14	-3	15	34	50	53	32	26	41	52	44	29	48	39	25	30	46	51	55	46	51	38	29	30	39	55	35.2
Rolla §§	Maximum	51	58	54	52	26	22	23	46	62	60	60	55	51	71	65	59	60	57	57	58	63	72	69	62	63	71	80	73	62	74	72	58.3
	Minimum	18	32	37	18	6	10	2	11	32	41	52	33	25	42	53	45	30	43	35	29	27	44	48	51	53	40	52	50	23	43	56	35.0
Springfield	Maximum	44	51	51	33	24	19	19	46	60	64	59	51	52	70	64	55	56	62	53	56	66	68	65	62	57	70	76	65	59	72	68	55.4
	Minimum	22	33	33	14	7	8	1	16	33	46	51	31	29	41	52	43	33	46	37	31	36	47	50	52	47	41	55	38	34	46	54	35.7
Southwest Plain.																																	
Appleton City	Maximum	51	60	58	54	25	22	25	47	58	66	64	54	51	70	62	56	54	69	62	62	68	72	66	67	60	69	77	70	62	73	74	59.0
	Minimum	18	30	38	16	7	14	-2	17	32	42	50	32	28	34	55	41	30	46	39	27	31	39	51	57	46	36	54	43	32	41	54	34.8
Amoret	Maximum	54	62	58	52	38	22	27	52	62	66	57	52	55	69	61	57	58	70	50	60	69	73	68	68	55	68	77	75	61	73	75	59.6
	Minimum	14	31	35	14	5	10	-2	16	32	39	50	30	26	32	52	35	28	45	38	25	36	40	50	54	45	35	50	36	32	40	52	33.1
Clinton	Maximum	51	61	56	46	25	21	25	48	58	68	62	60	56	72	64	58	56	52	52	60	70	75	68	68	60	68	78	67	62	74	73	58.5
	Minimum	19	30	38	16	7	7	0	17	33	38	50	30	37	32	52	40	30	35	35	38	40	42	52	50	46	48	51	40	36	50	55	35.3
Harrisonville §§	Maximum	55	62	54	24	26	13	26	51	59	61	55	47	59	69	67	56	51	70	50	60	77	72	68	65	55	66	75	55	62	72	54	56.1
	Minimum	16	20	33	15	6	10	-1	6	21	35	47	30	25	27	55	39	28	29	38	28	30	42	45	53	52	39	39	47	32	35	41	31.0
Lamar §§	Maximum	50	60	60	28	28	26	26	49	61	68	60	50	64	74	70	60	60	69	50	62	72	73	67	68	59	61	71	54	60	75	75	58.5
	Minimum	17	30	35	15	6	11	0	15	32	44	48	30	26	25	57	43	32	48	37	27	31	42	45	52	44	37	44	44	29	39	50	33.3
Lamonte	Maximum	51	59	56	51	23	18	23	45	54	63	56	54	50	70	54	49	55	54	52	59	64	72	67	69	60	69	77	68	....	72	74	a56.3
	Minimum	18	33	35	1	7	7	-5	6	31	41	59	30	24	35	34	34	25	27	30	28	24	43	52	56	46	36	49	42	....	42	55	a31.3
Marshall	Maximum	52	59	55	46	23	21	21	45	57	61	....	58	51	72	67	....	58	63	62	50	60	74	73	71	60	65	79	72	62	72	76	b58.1
	Minimum	19	34	33	15	7	9	1	15	34	35	....	45	24	31	53	....	26	40	33	27	27	40	60	51	45	38	45	42	34	41	56	b33.1
Warsaw	Maximum	51	61	57	54	23	21	23	46	62	66	65	54	52	72	65	60	55	66	62	58	67	73	70	69	63	69	80	74	62	74	75	59.6
	Minimum	15	27	40	18	9	12	2	15	30	32	52	32	25	30	58	42	26	47	40	24	25	38	55	58	47	40	50	45	33	44	57	34.5
Northwest Plateau.																																	
Chillicothe §§	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
Grant City	Maximum	57	56	51	45	22	21	26	54	57	60	64	55	45	65	60	52	43	50	55	44	59	72	65	61	53	62	75	67	69	72	76	55 3
	Minimum	19	29	34	16	4	7	2	19	33	35	44	27	24	31	43	33	28	23	33	30	28	41	46	48	40	33	45	36	30	37	48	30.5
Kansas City	Maximum	54	61	52	28	25	19	27	54	61	62	59	44	47	67	62	52	47	70	49	55	64	71	66	63	53	65	75	60	61	73	75	55.5
	Minimum	25	38	28	13	9	7	3	22	35	45	34	29	31	40	51	37	28	43	37	32	34	47	54	53	43	39	54	42	36	44	55	35 1
Kidder §§	Maximum	57	58	42	29	24	19	28	51	55	65	64	42	48	68	56	58	47	60	48	46	60	72	67	60	52	66	75	54	60	60	75	53.7
	Minimum	11	22	32	15	7	6	-1	-1	21	34	38	28	24	34	31	36	32	23	36	29	27	29	39	42	51	34	35	48	32	30	40	28.0
Lexington §§	Maximum	54	59	54	25	26	18	24	48	55	60	55	43	49	70	62	54	48	65	47	52	61	72	68	69	55	66	76	60	62	73	75	55.0
	Minimum	22	35	35	17	9	10	1	19	35	38	49	30	26	32	57	39	27	42	38	31	27	43	53	56	52	37	50	51	35	44	55	35.3
Maryville §§	Maximum	57	57	43	20	20	15	27	56	59	61	64	41	47	65	56	47	45	57	47	43	61	71	67	56	50	63	75	53	62	72	76	52.7
	Minimum	9	18	33	10	1	1	-5	-5	17	31	34	23	21	23	32	31	21	21	31	28	25	30	32	45	48	31	31	44	28	28	34	24.2
Oregon	Maximum	51	56	47	32	22	18	26	53	58	62	68	42	47	68	61	55	45	62	48	47	61	72	68	62	54	62	75	64	60	70	77	54.6
	Minimum	20	33	29	8	3	5	-4	18	31	36	34	22	22	32	32	32	21	37	32	26	25	44	47	46	38	32	47	37	28	35	49	28.9
St Joseph	Maximum	56	57	47	24	24	16	27	54	60	62	65	43	50	68	63	49	46	64	49	48	63	72	67	64	54	65	75	62	61	72	77	55.0
	Minimum	23	39	24	10	8	5	1	22	36	40	33	27	27	36	48	34	27	40	35	31	28	48	53	51	41	37	51	41	35	44	58	33.3
Trenton	Maximum	51	55	50	41	22	20	23	48	48	57	59	50	47	60	58	52	47	55	54	44	54	68	65	60	55	57	73	68	59	68	72	52.9
	Minimum	22	32	33	12	6	8	0	13	33	35	44	28	35	32	50	36	25	37	36	31	27	38	46	51	42	34	45	35	34	41	50	32.0

a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.


Scale of Shades.
0 to 1 inch.
1 to 2 inches.
2 to 4 inches.
4 to 6 inches.
Over 6 inches.
NO RAIN
W. T.
Calgary
Medicine Hat
Prince Albert
The Pas
Winnipeg
White River
Sydney
Sheridan
North Platte
Lincoln

OBSERVERS' REMARKS—MARCH.

Brunswick—Strong wind on the 12th, 15th, 19th and 28th.

Fayette—Strong winds on the 25th did a great deal of damage throughout the county. Strong winds on the 28th also, but not much damage done.

Fulton—Extremely variable winds.

Kirksville—There was 5.08 inches of rainfall from 8:30 a. m. of the 24th to 4:30 p. m. of the 25th.

Macon—Rain turned to snow on the 3d. Light blizzard with high wind on 6th. Hail, but no damage, on the 18th. Windstorm did much local damage on 28th. Wheat good and oat sowing in progress.

Mexico—Very high wind on the 25th and 28th, blowing down trees, signs and guttering,

St. Catherine—On the 25th and 26th creek overflowed the bottoms. Highest since 1875, old residents say. Very windy month. Grass and wheat look well.

Unionville—Blizzard on the 4th, with high north wind and snow.

Warrenton—A very windy month. Vegetation late. Fine prospects for a good fruit crop.

Aurora—Exceptionally favorable for truck gardeners and for fruit. Farmers are rushing plowing.

Bolivar—Month remarkable for extremes of temperature and very high winds the last ten days.

Eldon—High wind on the 6th drifted the snow. A gale on the 25th blew down outhouses and small barns and sheds.

Farmington—Much damage done by the storm of the 28th. The first half of the month was cold and the latter half windy and wet. Impossible to plow until the last few days.

Gano—Some damage done to house tops and hay stacks by the hard wind of the 28th. Wheat is improving some.

Houston—March was a record-breaker for high winds. Farmers unable to plow because of so much rain and lots of oats are not yet sown.

Lebanon—The worst March we ever had for high winds.

Lockwood—High winds on the 28th did some damage. All farm work delayed. Wheat only fair.

Amoret—Wheat very poor; some fields have been abandoned. Oats about all sown. Considerable plowing being done for corn. Not much clover sown on account of the high cost of seed. Grass starting good.

Appleton City—Rain of the 26th the heaviest in several years. Roads good. Wheat in poor condition.

Clinton—Heaviest rain in seven years fell from the 24th to the 26th. Hurricane wind on the 28th.

Lamonte—Wheat prospects generally poor; about 65 per cent. All fruit promises good. Seventy-five per cent of the oats are sown. No spring breaking for corn. Fifty per cent of the potato crop planted. Many buildings damaged by high wind of the 28th.

Nevada—A tornado struck Nevada at 1:10 p. m. of the 11th and destroyed $75,000 in property and killed three men.

Warsaw—Greatest rainfall for March since 1912. Fine prospects for fruit of all kinds. Wheat generally improved. Flood of the 25th did some damage.

Avalon—Very wet the latter part of the month. Grand River out of its banks and overflowed bottom lands. The prospects for peaches are good.

Edgerton—Easily the windiest month I ever observed. Wheat in poor condition the first of the month, but greatly benefitted by rains of 23d to the 26th.

Grant City—Very little spring plowing done.

Kidder—High wind during the month.

Lexington—Strong winds on several days. Heaviest March rainfall in 24 years.

Tarkio—High winds with dust storms and little rain characterized the month.

DAMAGING STORMS—MARCH, 1920.

LOCAL STORMS: On the afternoon of the 11th there were two local storms of the tornado type, one in Taney County about noon, and one at Nevada, Vernon County, about an hour later.

The Taney County storm seems to have originated in Carroll County, Arkansas, a few miles southwest of the Missouri line. Oasis was the first Missouri point in the path, and Bradleyville, in the northeastern corner of the county, 28 miles from Oasis, was the last place reporting any damage.

At Oasis the storm track was about 50 yards wide; beyond Melva it is reported to have swept over a path nearly one-half mile wide, but generally the path was less than 100 yards. The storm traveled over the 16 miles from Oasis to the White River in 20 minutes, or at 48 miles an hour.

The dwelling of John Gross, near Oasis, was the first point of damage. He and his wife were in the house when it was swept from its foundation into the air. They were found in the adjacent woods, dazed but unhurt; but only a few of the timbers of the house were to be found in the locality. From there to Melva only the tops of the Ozark ridges were touched, but in the broader valley of Turkey Creek the little settlement of Melva was demolished, ten persons were killed and ten seriously injured. Eight other persons were injured near Kirbyville and in the course of the storm towards the White River. After crossing the river the storm seems to have lifted and caused only occasional damage of a minor nature. An estimate of $150,000 to $200,000 has been placed on the property loss.

Another tornadic storm swept a path through a portion of Nevada from 1:10 p. m. to 1:15 p. m. Several valuable business buildings were demolished and many other buildings sustained considerable damage. Three young men were crushed in the wreck of one of the buildings and were dead when found. The path of the storm was narrow and less than a mile in length. The loss will reach $75,000 to $100,000.

On this date many parts of the State reported severe storms and excessive rains, but no further damage seems to have occurred.

Vanzant, a tiny hamlet twelve miles south of Mountain Grove, was the scene of a tornado at about 2:30 a. m. on the 28th. The path was about 200 yards in width and only a few miles long. Six farms were swept, on four of which the dwellings were either wrecked or damaged. Several persons narrowly escaped when their homes were struck. The loss has been estimated at $3,000.

WIND DAMAGE: The gales of the 25th and the 28th will long be remembered. While high winds prevailed throughout the State on both dates, damaging velocities seem to have been confined mostly to the central portions, with about ten counties from Pettis to Marion sustaining the greater loss. Pettis, Cooper, Moniteau, Howard, Boone, Randolph and Monroe counties had an aggregate loss of $100,000 to $110,000 on each of these days. Additional loss of from $30,000 to $50,000 has been reported from other parts of the State. The loss was greatest in the counties mentioned on the 25th, perhaps, while the wind of the 28th caused damage over more extensive territory. In a few instances temporary repairs made after the 25th were torn down by the wind of the 28th. In other instances the second wind finished the damage started by the first. In the counties mentioned nearly every farm, village and city sustained damage ranging from a few shingles or an old shed to demolished barns, unroofed houses, uprooted orchards, silos and windmills. In the towns, plate glass, greenhouses, chimneys and smokestacks, roofs, public service properties, etc., were items of large loss. Wind velocities ranged from 45 to 70 miles an hour, and perhaps even higher velocities occurred for short intervals. On the 25th the gale continued throughout the afternoon, and on the 28th the highest velocities obtained before noon, though continuing high all day.

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CLIMATOLOGICAL DATA

MISSOURI SECTION

IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

APRIL, 1920

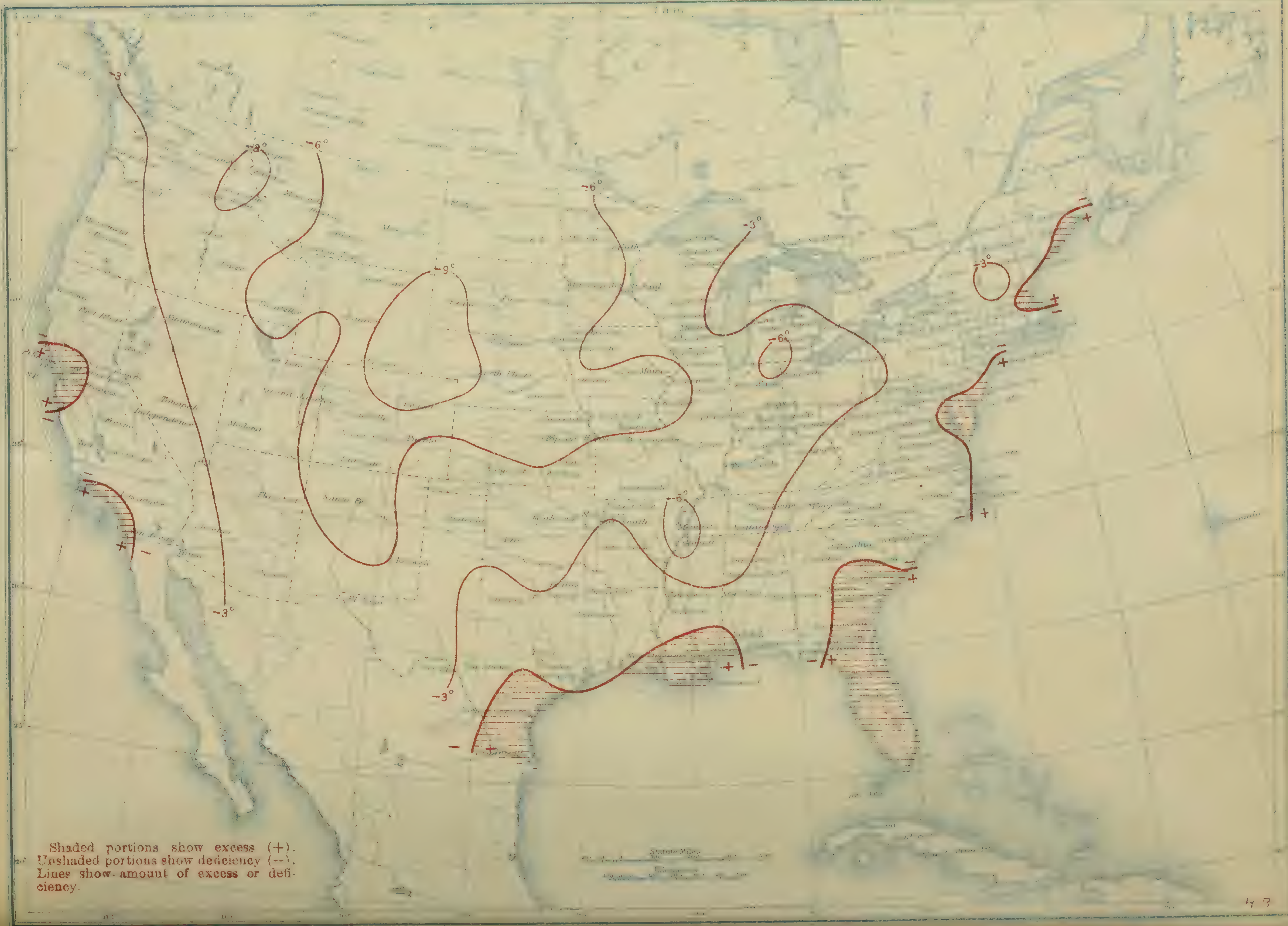
BY

GEORGE REEDER

METEOROLOGIST

COLUMBIA, MO.
WEATHER BUREAU OFFICE
JUNE 7, 1920

Departure of the Mean Temperature from the Normal, April, 1920.



Shaded portions show excess (+).
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXIV. Columbia, Mo., April, 1920. No. 4.

GENERAL SUMMARY.

The heavy and general snowstorm of the 3d-4th, and following record-breaking low temperatures on the morning of the 5th, were the outstanding features of an otherwise rather unusual April. From the side of personal comfort it was a disagreeable month, being cold generally (but little warmer than the preceding month), cloudy and wet, the last being in marked evidence over the northern two-thirds of the State. Fires for bodily comfort were a constant necessity.

The season, both as to farmwork and vegetation, was much behind the general average. At the close of the month, save along the southern border, practically no plowing and very little planting had been done. The wheat crop was much under its average condition at this time. The freeze of the 5th damaged fruit in the southern portion of the State, where, of course, it was farther advanced than in the northern sections. Because of the backward condition of vegetation neither frost nor hail caused serious damage. For a more detailed report on hail and other storms see page 32.

TEMPERATURE.

The monthly mean temperature for the State as a whole, 67 stations reporting, was 50.2°. The departure from the normal for 65 stations having 10 or more years' record was minus 4.7°. This month was about 5° colder than the same month last year, and, in fact, it was the coolest April since 1907. Unseasonably cool weather was experienced in all sections, but the temperature deficiency was not as marked in the southeastern lowlands and Ozark Plateau as in the southwestern and northeastern plains and northwestern plateau, where, in the last named especially, the month averaged more than 6° cooler than normal. North of the Ozarks there were only a few real spring-like days, namely, 1st, 15th, 21st, 22d and 29th; along the southern Ozark slope the 18th and 19th were quite warm. Decidedly cold, disagreeable weather prevailed from the 3d to the 9th, on the 12th and 13th, and 26th to the 28th. On the morning of the 5th record-breaking low temperatures for April embraced the entire State, the minimum being 4°, at Edgerton, Platte County. About 20 stations experienced temperatures ranging between 6° and 10° above zero, three of these being in the central Ozarks. The average number of days with temperature of 32° or lower was 7.

PRECIPITATION.

The average precipitation for the State, 81 stations reporting, was 3.95 inches. The departure from the normal for 73 stations having 10 or more years' record was plus 0.15 inch. Rain fell almost every day in some part of the State, but they were, as a rule, light and local from the 6th to the 10th and 21st to the 24th. The total monthly fall was something less than normal in the southeastern lowlands and Ozark Plateau, while the greatest excess occurred in the northwestern plateau.

A marked feature of the month was the snowstorm of the 3d and 4th. This was the heaviest and most general snow that has occurred in April during the past 30 years. The snow melted almost as fast as it fell along the southern border, but over the northern two-thirds of the State amounts ranged from 3 to over 15 inches on a level, and drifted to great depths, interrupting travel for several days, especially in the northeastern counties.

WIND.

The prevailing winds were from the northwest. The total number of miles, 8 stations equipped with anemometers reporting, was 9320 miles, or an average hourly movement of 12.8 miles. Quite high winds prevailed on the 22d. For a more detailed report of storms see page 32.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well-placed stations with sunshine recorders reporting, was 199, or 50 per cent of the possible, and about 11 per cent below normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense—20th and 30th. *Frost, killing*—2d, 4th, 5th, 9th, 13th, 14th and 28th. *Hail*—1st, 3d, 18th, 19th and 29th. *Halos, solar*—4th, 5th, 13th, 14th, 17th, 23d, 24th, 25th and 28th. *Lunar*—23d and 28th. *Thunderstorms*—1st, 3d, 4th, 11th, 12th, 15th, 16th, 17th, 18th, 19th, 20th, 28th, 29th and 30th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	29.78	80	58	172	43	8,271	11.5	40	sw.	22
Hannibal	29.80	80	......	......	......	8,525	11.8	45	sw.	22
Kansas City	29.80	76	59	234	59	10,894	15.1	47	w.	22
St. Joseph	29.80	78	60	188	47	8,582	11.9	52	w.	22
St. Louis	29.81	69	57	175	41	11,170	15.5	51	sw.	1
Springfield	29.79	79	58	236	60	9,890	13.7	50	se.	25
Cairo, Ill	......	78	60	......	......	9,312	12.9	53	sw.	4
Keokuk, Iowa	29.84	76	61	189	47	7,412	10.3	44	sw.	22

SUPPLEMENTAL TABLE OF DATA.

Stations.	Length of record, years.	Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
		Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Arlington	15	......	......	......	......	......	......	......	......	......	Wm. R. Bennett.
Boonville	41	3.39	−0.55	0.84	4.0	12	7	4	19	......	C. Randecker.
C. Girardeau	11	2.26	−1.89	0.72	T.	13	11	5	11	s.	D. L. Albert.
Glencoe	1	2.96	......	0.90	0.0	7	......	......	......	...	L. M. Beard.
Hermann	41	3.29	−0.24	1.57	0.8	7	14	0	16	......	J. G. Relsamen.
New Madrid	24	5.49	+1.12	1.95	0.0	14	9	4	17	se.	Miss Josie Smith.
Osceola	18	3.83	−0.24	0.85	2.5	10	10	0	20	......	Wm. E. Mathews.
Pacific	1	3.21	......	0.70	T.	10	15	2	13	......	Mark Waters.
Steelville	16	2.32	−2.26	0.47	1.0	10	22	0	8	......	A. Kreamelmeyer.
Tuscumbia	1	2.43	......	0.60	0.5	13	11	7	12	......	C. B. Wright.
Union	1	2.64	......	0.72	T.	13	10	6	14	sw.	J. Wm. Keller.
Valley Park	1	3.11	......	0.96	0.0	9	12	6	12	......	T. W. McNeese.
Waverly	3	4.71	......	1.44	6.0	12	9	3	18	......	F.N. Cauthorn.

COMPARATIVE DATA FOR APRIL.

Year.	Temperature.				Precipitation.				Number of Days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	57.9	+2.8	91	20	1.83	−1.89	......	......	5	......	......	......
1889	55.7	+0.6	90	26	2.52	−1.20	......	......	8	......	......	......
1890	56.2	+1.1	93	24	3.17	−0.55	......	......	8	......	......	......
1891	56.8	+1.7	93	15	3.90	+0.18	......	......	9	......	......	......
1892	53.1	−2.0	88	26	5.66	+1.94	4.25	......	11	9	8	13
1893	53.9	−1.2	95	19	7.84	+4.12	5.50	......	12	8	9	13
1894	56.1	+1.0	93	20	3.17	−0.55	2.49	T.	8	12	10	8
1895	57.9	+2.8	100	24	1.95	−1.77	2.88	T.	7	11	8	8
1896	61.9	+6.8	92	17	3.51	+0.21	3.00	0.0	9	11	12	7
1897	54.4	−0.7	88	21	4.55	+0.83	3.50	T.	10	10	11	9
1898	52.5	−2.6	90	14	3.65	−0.07	3.25	T.	10	12	9	9
1899	54.0	−1.1	96	6	3.70	−0.02	3.76	3.8	8	12	9	9
1900	56.7	+1.6	89	21	3.36	−0.36	3.82	0.7	9	11	10	9
1901	53.3	−1.8	94	24	2.85	−0.87	2.23	1.8	8	14	7	9
1902	53.9	−1.2	95	19	2.66	−1.06	4.35	T.	11	13	11	6
1903	55.9	+0.8	91	26	3.54	−0.18	4.06	1.2	9	11	10	9
1904	49.0	−6.1	84	19	5.75	+2.03	6.10	2.7	9	15	6	9
1905	54.9	−0.2	92	20	3.19	−0.53	4.00	0.3	6	14	8	8
1906	59.5	+4.1	93	22	2.24	−1.41	2.45	0.0	8	17	7	6
1907	48.7	−6.4	89	16	3.43	−0.29	2.75	T.	8	11	8	11
1908	56.6	+1.5	90	18	5.30	+1.58	3.30	T.	11	11	8	11
1909	54.8	−0.3	93	19	4.35	+0.63	3.80	T.	8	13	9	8
1910	54.8	−0.3	95	21	3.51	−0.21	2.50	0.9	11	12	7	11
1911	53.5	−1.6	89	20	4.99	+1.27	4.27	T.	10	12	8	10
1912	56.0	+0.9	97	24	5.98	+2.26	1.50	0.7	10	13	7	10
1913	56.2	+1.2	94	25	3.33	−0.45	3.90	T.	7	16	5	9
1914	55.2	+0.1	91	18	3.14	−0.74	3.00	T.	8	12	7	11
1915	61.9	+6.5	96	18	2.03	−1.82	2.08	T.	7	16	8	6
1916	53.5	−1.8	93	21	3.23	−0.69	2.35	1.9	10	11	8	11
1917	53.2	−2.3	89	19	5.97	+2.02	4.80	1.2	12	12	6	12
1918	50.8	−4.4	93	19	5.10	+1.21	3.50	0.9	11	12	6	12
1919	55.3	+0.3	94	20	3.01	−0.64	3.25	T.	9	12	7	11
1920	50.2	−4.7	89	4	3.95	+0.15	2.98	4.8	11	11	7	12

Climatological data for April, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	39	47.6	−6.8	81	21	11	5†	43	5.07	+1.80	1.20	9.5	13	12	0	18	ne.	O.K. Benecke.
Clifton Hill	Randolph	731	21	50.0	−3.6	82	21	8	5	50	4.33	+0.99	0.75	7.5	13	13	8	9	......	L. S. Harlan.
Columbia	Boone	784	31	48.8	−5.5	82	21	14	5	43	3.98	+0 28	0.84	4.6	13	9	7	14	w.	U. S. Weather Bureau.
Fayette	Howard	725	41	48.8	−6.1	83	21	12	5	34	3.47	+0.14	0.60	6.5	11	7	8	15	sw.	Prof. D. R. Briggs.
Fulton	Callaway	818	33	50.5	−3.9	85	21	13	5	40	1.41	−2.68	0.50	3.6	6	5	14	11	nw.	Prof. Claude A. Jones.
Gorin	Scotland	700	32	......	......	......	......	......	......	....	6.18	+2.36	1.11	6.0	15	4	9	17	sw.	J. W. Pulliam.
Hannibal	Marion	534	37	47.0	−6.6	82	21	11	5	43	4.36	+1.11	0.81	13.2	16	8	7	15	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	37	48.7	−7.7	82	1	13	5	36	2.49	−1.10	0.62	5 0	10	16	6	8	w.	Miss Emma Swift.
Kirksville	Adair	969	38	46 2	−5.7	77	21	8	5	30	7.09	+3.63	2.98	8.0	12	12	14	4	w.	Prof. Mark Burrows.
Louisiana	Pike	469	39	50.3	−3 4	82	22	14	5	44	4.03	+0.98	1.10	10.4	16	13	5	12	e.	J. T. Farrell.
Macon	Macon	875	26	47.0	−6.9	82	1†	9	5	36	5.50	+2.63	1.54	11.5	11	11	4	15	n.	W. C. Brown.
Mexico	Audrain	797	41	47.1	−7.2	84	21	11	5	39	3.57	+0.10	0.61	7.0	12	10	3	17	w.	Mrs. Abbie Snoddy.
Oakfield ‡‡	Franklin	793	38	51.3	−4.6	83	21	18	5	38	3.69	−0.45	1.11	T.	12	6	11	13	n.	E. E. Steines.
Palmyra	Marion	652	20	45.3	−9.3	81	21	11	5	37	5 26	+2.01	1.10	15 5	16	8	4	18	nw.	W. B. Markell.
St. Catherine	Linn	850	9	46.9	....	79	22	8	5	30	6.16	....	1 38	13.0	13	9	10	11	e.	L. D. Baker.
St. Charles	St. Charles	456	41	51.0	−4.6	82	21	17	5	39	3.95	+0.43	1.27	1.5	8	8	9	13	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	83	51.2	−4.9	80	21	22	5	28	3.43	−0.09	1.40	0.2	11	9	8	13	nw.	U. S. Weather Bureau.
St. Louis (2)	.....do	578	8	50.8	−4.8	81	21	20.	5	28	3.87	....	1.02	6	11	10	9	11	nw.	St. Louis University.
Shelbina	Shelby	779	27	......	....	....	......	......	......	....	4.94	+1.75	0.86	12.0	10	....	....	....	......	S. G Parsons.
Steffenville	Lewis	650	26	47.6	−5.6	83	21	5	5	51	4.75	+1.35	1.30	11.0	15	7	13	10	w.	Frank Hall.
Unionville	Putnam	1,072	27	46 5	−4.6	76	21	8	5	32	4.80	+1.31	0.90	12.0	14	9	5	16	n.	Geo. W. Davis.
Warrenton	Warren	865	38	49 1	−5.7	84	21	13	5	36	2.93	−1.29	0.84	8.0	12	5	10	15	nw.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	48	45.7	−6.3	78	21	13	5	37	3.64	+0.30	0.80	8.6	15	4	10	16	ne.	U. S. Weather Bureau.
Section means and	extremes	....	....	48.4	−5.7	85	21	5	5	51	4.30	+0.74	2.98	8.3	12	9	8	13	nw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	29	60.9	+0.8	87	18	28	5	36	6.06	+2.06	1.35	T.	10	18	4	8	e.	H. E. Averill.
Doniphan	Ripley	344	16	56.8	−1.2	89	19	24	5	36	5.62	−2.02	0.75	T.	13	14	5	11	s.	W. W. Martin.
Jackson	Cape Girardeau	458	30	55.2	−1.7	82	21	23	5	39	2.69	−1.90	0.48	0	10	7	11	12	s.	L. M. Bean.
Marble Hill	Bollinger	420	26	. .	....	......	......	......	......	....	......	....	......	......	....	....	....	....	......	F. W. Wells.
Patton (near)	Bollinger	500	10	......	....	......	......	......	......	....	3.30	−0.39	0.95	T.	6	....	....	....	......	George F. Ellis.
Poplar Bluff	Butler	339	16	56.8	−2.5	85	18†	24	5	37	3.41	−1.29	1.30	0	11	12	2	16	......	Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill	359	45	55.2	−3.1	80	18	26	5	29	3.35	−0.22	1.10	T.	12	7	10	13	s.	U. S. Weather Bureau.
Section means and	extremes	....	....	57.0	−1.5	89	19	23	5	39	3.74	−0.63	1.35	T.	10	12	6	12	s.	
Ozark Plateau.																				
Arcadia	Iron	925	42	52.2	−3.2	82	21	19	5	39	3.59	−1.12	0.73	0.7	12	12	12	6	w.	Arcadia College.
Aurora	Lawrence	1,370	....	51.0	−1.7	88	18	17	5	40	1.66	−2.69	0.82	T.	6	18	2	10	nw.	C. D. Sprague.
Birchtree	Shannon	1,078	26	53.0[a]	−3.9	83	21	16	5	39	3 02	−1 86	0 85	T	8	21	3	6	se.	V. H. Kirkendall.
Bolivar	Polk	1,071	33	53.0	3.1	81	18†	16	5	37	2.46	−1 52	0.99	T.	12	12	9	9	nw.	K. H. Brown.
Cassville	Barry	1,475	21	....	....	....	......	......	......	....	......	....	......	....	....	....	....	....	......	R. H. Wallen.
Dean ‡‡	McDonald	1,000	21	55.2[a]	−2.1	88	17	16	5	42	2.65	−1.52	0.96	T.	10	18	2	10	w.	H. E. Dean.
Eldon	Miller	934	21	49.6	−6.1	80	1†	10	5	41	3.10	−1.43	0.74	3.2	10	4	17	9	n.	E. H. Shepherd.
Farmington	St Francois	918	23	52.0	−5.3	81	18	17	5	38	3.37	−0 72	0.90	1.0	10	9	15	6	sw.	Robert Forsyth.
Gano ‡‡	Dent	1,250	18	51.2	−4.6	83	19	13	5	39	2.76	−2.06	0.55	0.6	11	13	7	10	nw.	A. C. Leach.
Goodland	Iron	1,000	27	52.0	−2.6	81	19	15	5	41	3.76	−1.52	1.30	0.6	6	15	8	7	n.	F. M. Adams.
Hollister	Taney	735	17	57.0	−2.8	89	18	10	5	46	3.60	−0.72	0.90	T.	11	19	0	11	w.	W. P. Chapmann.
Houston	Texas	1,280	27	54.2	−1.6	84	19	15	5	39	1.94	−2.70	0.34	0.5	8	17	5	8	se.	R. F. Harmon.
Koshkonong	Oregon	958	19	56.4[a]	−1.4	85	19	21	5	38	3.14	−1.99	0.77	8 0	8	14[a]	10[a]	5[a]	sw.	R. M. Hitt.
Lebanon	Laclede	1,265	32	49.4	−6.5	81	19	9	5	45	2.07	−2.22	0.80	1.5	12	15	8	7	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	24	53.6	−2.6	84	18†	17	5	38	3.56	−0.10	1.86	4.0	10	11	10	9	w.	C. S. Crow.
Mountain Grove	Wright	1,490	23	51.3	−3.1	83	19	15	4	44	1.78	−3.26	0.52	0	8	9	11	10	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	56.0	−2.0	88	17	15	5	43	2.28	−1.95	0.56	T.	9	19	3	8	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,139	36	52.2	−2.8	84	20	13	5	50	2.31	−2.47	0 75	2.0	10	10	12	8	n.	Prof. Elmo G. Harris.
Springfield	Greene	1,350	42	51.6	−4.1	83	18	16	5	42	1.53	−2.33	0 31	2.0	14	15	7	8	se.	U. S. Weather Bureau.
Section means and	extremes	......	....	53.0	−3.3	89	18	9	5	50	2.68	−1.81	1.86	1.3	10	14	8	8	sw.	
Southwest Plain.																				
Amoret	Bates	831	13	50.2	−4.6	79	21	10	5	43	2.83	−1.32	0.62	5.5	11	16	11	3	s.	Darby Fruit Farm.
Appleton City	St. Clair	853	28	51.7	−4.2	78	21	13	5	33	4.24	−0.03	0.75	1.5	12	12	10	8	se.	W. G. Bigelow.
Clinton	Henry	765	33	52.4	−1.4	81	21	10	5	39	4.39	+0.35	1 12	8 0	10	4	18	8	se.	A. E. Derwent, M. D.
Harrisonville	Cass	912	44	47.0	−7.0	79	21	10	5	36	2.99	−0.41	1.00	7.0	9	7	7	16	nw.	John H. Patterson.
Lamar	Barton	980	39	52 2	−4.5	85	18	15	5	37	3.37	−0.78	0.83	2 0	12	17	3	10	se.	Joe W. Springer.
Lamonte	Pettis	863	33	49.0	−6 5	80	21	5	5	35	6.13	+2.37	1.60	10 0	11	8	9	13	s.	J. Ed. Hall.
Marshall	Saline	779	31	48.8[b]	−5.7	79	21	6	5	35	5.37	+1.67	1.05	10.0	9	13	9	8	sw.	Dr. W. H. Black.
Nevada	Vernon	860	28	52.6	−2.5	80	17†	18	5	36	3.70	−0.02	1.46	3.0	9	15	6	9	s.	George A. Kaupp.
Warrensburg	Johnson	883	42	......	....	....	......	......	......	....	......	....	......	......	...	...	....	....	......	Geo. H. Collins.
Warsaw	Benton	715	25	52 2	−3 8	81	21	10	5	40	4 50	+0.31	0.90	5.0	11	6	18	6	w.	J. R. Smith, M. D.
Section means and	extremes	....	....	50.7	−4.5	85	18	6	5	43	4.17	+0.24	1.60	5.8	10	11	10	9	s.	
Northwest Plateau.																				
Avalon	Livingston	730	30	48 2	−5.5	77	21	12	5	31	4.35	+1.14	1.15	8.0	10	11	11	8	se.	F. G. Ashbaugh.
Bethany	Harrison	916	28	46.6	−4.6	76	21	5	5	35	5.85	+2.89	1.60	15.0	12	6	13	11	ne.	M. H. Moulton.
Chillicothe ††	Livingston	768	15	47.0[b]	−7.5	79	21	5	5	34	5.74	+0.92	2.10	10.0	10	16[b]	0	12[b]	nw.	R. L. Isherwood.
Conception	Nodaway	982	35	46.0	−6.3	75	21	12	5	38	5.26	+2.55	1.31	10.0	13	4	15	11	ne.	Fr. Adelhelm Hess.
Edgerton	Platte	856	....	48.2	....	79	21	4	5	37	3.60	....	0.66	5.2	11	11	7	12	nw.	H. Killingsworth.
Grant City	Worth	1, 134	29	46.5	−5.8	73	21	12	5	37	5 23	+2.36	1.42	4.0	9	8	6	16	nw.	W. H. Campbell.
Kansas City	Jackson	963	31	48.0	−6.3	79	21	17	5	39	5.02	+1 73	1.69	7.0	14	8	11	11	e.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	33	45.0	−7.9	75	21	10	5	37	8.19	+5.40	2.00	9.0	15	11	8	11	ne.	J. F. Sharp.
Lexington	Lafayette	688	38	48.6	−5.7	80	21	14	5	32	5.77	+2.45	1.22	6.0	10	8	0	22	n.	J. W. Keithley.
Liberty	Clay	864	30	48.7	−6.8	77	21	9	5	36	6.23	+3.13	1.28	6.6	12	13	11	6	nw.	James H. Harris.
Maryville	Nodaway	1,036	30	42.6	−8.0	73	21	6	5	40	5.53	+2.83	1.00	12.2	13	8	2	20	nw.	J. R. Brink.
Oregon	Holt	1,048	64	45.5	−7.2	78	21	13	5	43	5.42	+2.17	1.42	9.9	9	11	8	11	ne.	Tom Curry.
St. Joseph	Buchanan	967	46	47.0	−6.8	78	21	16	5	40	5.80	+2.93	2.61	6.3	13	8	10	12	nw.	U. S. Weather Bureau.
Tarkio	Atchison	976	27	45.4	−7.9	74	21	10	5	41	5.78	+2.82	1.68	8.0	10	12	7	11	nw.	John F. Frazier.
Trenton	Grundy	822	25	46.8	−6.4	73	21	15	5	34	3.82	+0.96	0.73	7.0	14	12	6	12	ne.	W. H. Estes.
Section means and	extremes	....	....	46.6	−6.6	80	21	4	5	43	5.42	+2.57	2.61	8.2	12	9	8	13	nw.	
State means and	extremes	....	....	50.2	−4.7	89	18†	4	5	51	3.95	+0.15	2.98	4.8	11	11	7	12	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b] represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Oakfield, Pacific, R. F. D. No. 1; of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily precipitation for April, 1920.

Stations.		Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville ‖	Missouri	.52	T.		.38	.03				T.			.84	.10			.70			.08	.08						.09	.15		.05	.37		3.39
Brunswick ‖	Grand	.41	.03	53			.02						1.05				.56		.06	.04	1.20		.04				.18	.40			.55		5.07
Clifton Hill	Chariton	.40	T	.15	.75							.55	.30			.15	.37		.01	.33	.25						.42			.10	.55		4.33
Columbia***	Missouri	.84	T.	.35	.48				.05			.33	.07			.18	.38		T.	.43	T	T.				.03	.17			.65	.02		3.98
Fayette	do	.56	T.	.10	.60				T.			.43	.25		T.		.45			.08	.03		T.				.41			.03	.53		3.47
Fulton	do		T.		.35	.50			.06			.36	.13			.01																	1.41
Glencoe ‖	Meramec	.36	T.		.90	.05							.83	.27			.05				T									T.	.50		2.96
Gorin	Mississippi	.71	.01		.44		.17					.23	.72			.84			1.11	1.08	.12			.06			.40	.10		.01	.18		6.18
Hannibal***	do	.68	.01	.47	.35		.23	T.	T.			.32	.49		.01	.13	.34	T.	.10	.24		T.				T.	.17	.08		.73	.01		4.36
Hermann ‖	Missouri				.32					.05			.42	.36			.18				1.57										.39		3.29
Jefferson City ‖	do	.05			.40	.02							.62	.05			.55			.20	.05									.05	.50		2.49
Kirksville	Mississippi	.47			.25		.28					.48	.65				2.98		.82	.43	.07		T.	.02			.44	T.			.20		7.09
Louisiana	do	05	.03	.09	1.10		.23	T.	T.				.55			.03	.32	.25	.03	.04	.25					T.	.35	.13		.03	.55		4.03
Macon ‖	Chariton	.54			1.54	T.	.15	T.					.75			.04	.33		.07		.54						.35	.36			.83		5.50
Mexico ‖	Mississippi	.45	T.		.46	.50	.01						.43	.05			.32			.47	.14						.01	.12			.61		3.57
Oakfield	Meramec	.38	T.	.38	.44	.03			.02			.15	1.11				.12			.64							T.	.03		.05	.33		3.69
Pacific ‖	do	.18	T.		.67	.10	T.						.70	.62			.17				.47							.02	.03	T.	.25		3.21
Palmyra ‖	Mississippi	.55	.04		.35	.38	.24	.04				.53		.13		.36	.34		.09	.05	.72						.12	.22			1.10		5.26
St. Catherine	Grand	.36	T.	.18	1.00		.50					.48	.11			.02	1.38	T.	.52	.57	.24		T.				.44			T.	.36		6.16
St. Charles	Missouri	.19	T.	.10	.75	.05						.16	1.27				T.			1.07							.10	T.			.26		3.95
St. Louis (1)***	Mississippi	.43		.28	.59		T.		T.			.37	1.03		T.	T.	.04		.11	.35		T.				T.		.01		.01	.21		3.42
St. Louis (2)	do	.58		.31	.63				T.			.41	1.02				.07		.17	.46							T.	.02		.01	.19		3.87
Shelbina	do	.60			.86	T.	.18					.50	.30			.60		.10		.50							.50				.80		4.94
Steffenville	do	.40	T.	.07	1.30		.25	T.	T.			.20	.22			.20	.40	.10	.16	.03	.30						.50	.12		T.	.50		4.75
Union ‖	Meramec	.22	.02		.72	.03				.03			.38	.24			.15				.35							.02	.02	.03	.33		2.64
Unionville	Chariton	.20	.30	.30	.60	.15	.30						.30				.70		.30	.35	.50		T.				.60	.10		.10			4.80
Valley Park ‖	Meramec	.16	.10		.80	.06				T.			96	.22		T.	.08				.42							T.		T.	.31		3.11
Warrenton ‖	Mississippi	.06	.05		.50	.15	.02						.73	.15			.10				.84		.01					.05			.27		2.93
Keokuk, Iowa***	do	.28	T.	.13	.46		.08					.19	.29			.40	.40	T.	.42	.35			.02	T.			.32	.06		.23	.01		3.64
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi	.30	.20		.20	.18							.32	.10			.25	.04				.10				.02		.25		.24	.06		2.26
Caruthersville	do	1.25		.10	.63		.10						1.35			T.	.32				1.04					.50	.65			.12	T.		6.06
Doniphan	Black	.75	.25	.10	.10							.02	.60			.02					.55	.10			.43	.58	.10			.02			3.62
Jackson	Mississippi	.10	.48	.26	.14								.20			.42				.06	.37						.26			.40			2.69
Marble Hill	do																																
New Madrid ‖	do	1.95			.35	.01		.14					1.10	.01			.13				.20	.30				.40	.65	.01		.16	.08		5.49
Patton (near)	do	.95	.35		.75								.53				.37													.35			3.30
Poplar Bluff ‖	Black	1 30		.06	.14								T.			T.				.35	.44	.07				.12	.42	.12	.30	.09			3.41
Cairo, Ill.***	Mississippi	.78	T.	.12	.10		.02					.41	.59			T.	.21			T.	.28					.35	.22			.19	.08		3.35
Ozark Plateau.																																	
Arcadia ‖	St. Francis	.67	.13		.39	.09							.73	.10			.42			T.	.50	.05				.02		.10		.39			3.59
Arlington ‖	Gasconade																																
Aurora	White	.13		.22	T.							.10	.03							.82						.36	T.			T.			1.66
Birchtree	Black	.85		12	.29							.26	.76													.36	.08			.30			3.02
Bolivar	Osage	.22		22	.40							.06	.07			.06	.07			.99	T.						.11		.04	.15	.07		2.46
Cassville	White																																
Dean	Neosho	.25		.26	.10				07	.02		.04	.03							.96						.90		.02					2.65
Eldon	Osage	.23		.26	.28							.28				.56	.41			.19	.11								.10		.74		3.10
Farmington	St. Francis			.78	.09	.14						.03	.90				.60		T.	.30						T.	.33	.02		.18			3.37
Gano	Meramec	.23		.25	.45	T.						.22	.13			.05	.34			.55		T.				.06	T.			.37	.11		2.76
Goodland	Black			.50	.60	T.						.70					1.30			.06						.60							3.76
Hollister	White			.30	.30							.25								.90	.10	.15		.30	.30	.70		.15	.15				3.60
Houston	Gasconade	.29		.21	.20							.24	.26			T.	T.			T	T.					.25	.15			.34	T.		1.94
Koshkonong	Black	.62		.12	.24							.35	71			.07											.77			.26			3.14
Lebanon ‖	Osage	.02			.05	.80							.05	.03		.08	.34				.15					.03	T.	.02		.19	.31		2.07
Lockwood	do			.42	.22							.14	.08							1.86	.22					.06	.05			.20	.31		3.56
Mountain Grove ‖	White	.52										.43				T.	.18	.05								.21	.19	.05	T.		.15		1.78
Neosho	Neosho	.51		.36	.06				T.			.09								.56	06					.43	T.	.03		.18			2.28
Rolla ‖	Meramec		.16		.75	.06				T.			.10	.09		T.	.48				.13		.04			T.		T.		.13	.37		2.31
Springfield***	White	.24		.26	.14			T.	T.			.06	.04			.12			T.	.31		.01			.10	.03	.04	.01	.05	.12			1.53
Steelville ‖	Meramec	.36			.47	.11							.35	.10			.28				.35					.03				.05	.22		2.32
Tuscumbia ‖	Osage	.08			.60	.08				T.			.25	.03		.05	.54			.01	.12		.02			.02		T.		.09	.54		2.43
Southwest Plain.																																	
Amoret	Osage	.42		.31	.20				T.				.62						.53	.25	.02						.36	.03		.06	.03		2.83
Appleton City	do	.64		.35	.69							.05	.75					.01	.37	.52						T.	.27	.02		.03	.54		4.24
Clinton	do	1.12		.40	.65								.84				.14	.15		.48	.10						.31			.20			4.39
Harrisonville ‖	do	.32			1.00								.70				.31		.10	.16			T.						.07	.02	.31		2.99
Lamar ‖	Neosho	.83			.40	.20							.65						.07	.13	.32					.02	.08	.10		.38	.19		3.37
Lamonte	Missouri	.35		.35	1.60				T.			.50	.90		T.		1.05		.05	.33	.15					T.	.30				.55		6.13
Marshall	do		T.		1.00							.21	1.05		T.	.96			.10	.90	.05						.50				.60		5.37
Nevada	Osage	.40			1.46							.12	.11			.06				.62							.36	T.	T	.30	.27		3.70
Osceola ‖	do	.63			.43								.65			.12	.05			.55	.35						.14		.06		.85		3.83
Warrensburg	Missouri																																
Warsaw	Osage	.60		.25	.75				T.			.29	.90				.60			.58	18		T.				.18			.15	.02		4.50
Waverly ‖	Missouri	.24	T.		.63	.29							1.44				.40		.22	.04	.51						.21	.22		.04	.47		4.71
Northwest Plateau.																																	
Avalon	Grand				**	**	.80					.85	.30			.15		.75		.40						.35				.75			4.35
Bethany	do	11	T.	.60	.60		.30					.60	.06				.63	T.	.50	1.6	T.	.10	T.		T	T.	.60				.15		5.85
Chillicothe ‖	do	1.00			.80	.30	.10	.10									.50		2 10		.15						.41				.28		5.74
Conception	Missouri	.12	T.	.12	.66		.14					.72	.03			T.	.30	T.	.60	1.31	.30	.22	T.				.60			T.	.14		5.26
Edgerton	do	.05	T.	.02	.45		T.		.23			.33	.66		T		.61		.38	.46	.01		T.				.40			T.			3.60
Gallatin	Grand																																
Grant City	do	.41			.40		T.					.51					T.	T.	.58	1.42	.05	.72	T.	T.			.94	T.			.20		5.23
Kansas City***	Missouri	.19		.40	.34	T.			.01			.45	.20			1.11	.58	.01	.50	.35						.03	.39			.46			5.02
Kidder ‖	Grand	.15		T.	.75	.03	.03	.09		.01			1.22				2.00	.02	1.27	1.78	.30						.38	.06			.10		8.19
Lexington ‖	Missouri	.24			.80	.17				.07			.95				1.22		.32		.53						.20	.20			1.07		5.77
Liberty	do	.19		.30	.42				.08			.37	.53				1.04		.30	1.26	.02						.44				1.28		6.23
Maryville ‖	do	.15	.03	T.	1.00	T.	.20	T.					.94				.05		.42	.84	.22	.43	T.				.95	.07			.23		5.53
Oregon	do	.08		.64			.35		T.				1.10			T.		T.	.35	1.42	.38				T.		1.05			.05			5.42
t. Joseph***	do	.04		.32	.22		.14		.16			1.28	.05			.03	T.	T.	2.54	.25	T.	T.	T.		T.	.11	.63			.03			5.80
Tarkio	do			.56	.24							1.31	.07						1.68	.89	.05					.12	.65			.21			5.78
Trenton	Grand	.47	.03	.27	.20		.34					.49	.08		T.	.29		.37	.20	.29	T.		T.			.73	.02			.04			3.82

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the ime of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch

** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate ates of fall not recorded

Daily temperatures for April, 1920.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	79	52	38	30	38	44	55	54	59	65	55	46	51	68	71	54	60	57	54	72	81	64	60	67	67	51	53	63	77	60	....	58.3
	Minimum	55	30	30	25	11	11	31	32	29	29	39	41	29	34	33	48	38	39	49	49	49	49	47	38	39	49	38	33	34	45	....	36.8
Columbia	Maximum	79	52	41	33	39	44	51	53	56	65	61	50	46	65	71	58	60	57	63	69	82	72	56	63	63	57	51	60	75	50	....	58.5
	Minimum	36	31	33	21	11	33	31	36	30	33	42	35	29	34	54	42	38	49	52	50	52	52	47	39	51	43	38	35	45	48	....	39.1
Hannibal	Maximum	79	48	40	30	32	40	50	50	51	60	65	49	46	60	68	61	59	59	55	66	82	71	55	63	60	53	47	59	65	58	....	56.0
	Minimum	36	31	30	21	11	31	32	33	31	36	45	33	30	32	51	40	36	44	48	48	51	52	48	39	48	43	38	37	42	45	....	38.1
Jefferson City §§	Maximum	82	56	49	30	37	46	56	58	57	53	66	43	42	54	51	51	62	56	72	71	80	67	58	68	65	63	51	64	76	65	....	58.4
	Minimum	56	29	34	29	13	19	31	35	32	32	35	42	29	32	37	51	40	40	51	51	50	51	45	42	47	51	40	34	40	47	....	39.0
Kirksville	Maximum	74	50	41	31	34	41	51	50	54	62	57	49	41	61	67	64	55	62	52	66	77	73	55	62	60	55	47	59	64	60	....	55.9
	Minimum	49	26	29	22	8	29	29	32	30	34	39	32	26	32	48	39	34	45	45	44	47	45	41	38	46	42	36	32	40	48	....	36.4
Louisiana	Maximum	78	78	67	50	50	48	48	41	50	56	68	62	60	62	67	70	60	64	56	64	76	82	69	64	61	60	56	56	60	66	....	61.8
	Minimum	52	34	40	32	14	31	32	32	28	31	38	35	26	28	44	44	35	47	50	52	42	55	48	36	48	48	42	37	36	48	....	38.8
Macon §§	Maximum	82	50	37	27	40	44	54	56	69	66	61	43	49	65	70	49	59	58	51	72	82	62	56	68	67	47	51	61	72	58	....	57.5
	Minimum	55	28	30	23	9	15	30	34	33	35	38	37	28	30	41	40	34	40	47	46	46	47	44	39	46	46	37	32	41	48	....	36.6
Mexico §§	Maximum	81	52	40	28	37	43	55	50	56	65	50	40	47	66	74	47	55	55	61	69	81	66	57	65	68	57	50	62	74	62	....	57.3
	Minimum	56	29	31	27	11	12	30	33	29	32	35	39	27	30	35	43	35	38	47	49	48	53	46	38	48	44	38	33	41	48	....	36.9
Oakfield	Maximum	79	69	52	40	39	50	58	56	[illegible]	61	63	53	47	64	70	63	62	58	78	69	83	77	60	65	59	68	50	62	73	69	....	61.9
	Minimum	55	31	36	24	18	33	31	38	31	35	41	34	27	32	52	43	38	50	51	49	49	50	47	43	49	48	40	34	47	53	....	40.7
St. Catharine	Maximum	73	49	45	30	37	40	50	49	54	61	58	48	46	60	67	65	57	60	58	60	75	79	58	63	63	59	49	59	68	65	....	56.8
	Minimum	49	25	29	22	8	28	27	31	29	35	42	34	27	32	50	39	35	46	47	45	45	51	43	37	47	42	37	33	42	49	....	37.0
St. Louis (1)	Maximum	77	54	50	37	39	48	56	53	52	60	68	52	46	63	69	63	63	58	74	69	80	70	57	64	58	66	49	61	72	66	....	59.8
	Minimum	49	34	37	25	22	35	33	41	38	39	42	34	32	37	51	40	40	52	53	51	54	51	50	49	50	45	41	38	50	53	....	42.5
Unionville	Maximum	73	58	40	30	37	40	58	52	53	63	58	55	48	62	68	65	64	57	52	66	76	75	74	63	60	56	47	58	66	62	....	57.8
	Minimum	46	25	27	20	8	28	28	31	28	32	42	34	25	31	50	38	34	40	43	41	46	41	42	37	47	42	35	32	37	40	....	35.2
Warrenton §§	Maximum	80	54	45	31	39	44	55	54	54	65	68	49	48	65	71	54	59	55	75	70	84	67	56	64	64	65	49	63	73	64	....	59.4
	Minimum	55	30	31	30	13	17	29	34	32	34	35	47	29	39	35	53	38	39	50	51	48	56	47	41	47	49	38	33	42	48	....	38.8
Southeast Lowlands.																																	
Caruthersville	Maximum	71	65	66	55	51	68	58	75	69	71	75	65	66	68	75	83	81	87	85	80	86	86	82	80	66	73	66	76	78	86	....	73.1
	Minimum	56	41	41	38	28	38	41	42	45	47	65	45	32	35	52	52	46	61	66	60	52	62	55	49	52	51	49	40	51	64	....	48.7
Doniphan	Maximum	76	67	57	38	47	70	69	65	63	64	73	69	55	65	66	79	73	82	89	80	82	80	75	70	70	72	68	68	75	85	....	69.1
	Minimum	53	38	38	32	24	40	37	35	40	32	38	49	31	33	50	57	42	50	68	59	46	60	51	42	52	52	45	37	51	55	....	41.5
Jackson	Maximum	73	65	56	49	45	63	59	65	56	64	70	66	50	63	69	74	70	75	81	78	82	78	70	70	67	72	65	67	72	82	....	67.2
	Minimum	54	38	32	33	23	38	29	39	36	29	33	38	27	26	49	50	41	56	61	58	45	58	51	38	50	43	45	50	50	66	....	43.1
Marble Hill	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Poplar Bluff	Maximum	72	66	59	51	46	67	61	60	65	65	74	65	55	66	70	80	72	85	[illegible]	77	83	75	74	75	63	67	62	70	75	85	....	69.2
	Minimum	52	38	36	30	21	33	36	39	40	34	37	39	31	32	52	55	43	57	70	58	47	59	51	42	50	51	46	36	51	51	....	41.3
Ozark Plateau.																																	
Arcadia §§	Maximum	77	59	53	41	43	61	57	63	59	65	68	49	52	64	61	68	66	67	80	75	82	72	66	71	55	70	51	67	75	77	....	64.0
	Minimum	54	35	32	37	19	22	34	36	33	28	35	40	30	27	37	50	40	40	55	56	45	57	49	38	49	49	42	41	43	53	....	40.4
Aurora	Maximum	76	57	51	41	46	69	61	61	61	70	67	58	51	74	71	72	79	88	79	71	79	75	66	73	65	57	51	67	77	71	....	66.1
	Minimum	52	29	40	23	17	40	33	40	38	37	44	38	26	37	54	51	45	58	59	47	49	48	44	44	49	43	34	33	51	55	....	41.8
Birchtree	Maximum	77	71	51	40	43	63	59	62	60	63	67	51	52	65	61	72	70	77	....	....	83	78	69	72	62	70	59	66	76	70	....	b64.6
	Minimum	51	32	38	25	16	37	35	42	37	37	40	36	28	32	51	51	41	57	....	....	52	58	47	40	48	48	41	36	49	48	....	b41.3
Eldon	Maximum	80	55	43	37	43	45	55	56	57	60	64	51	63	69	75	61	69	64	75	70	84	65	61	68	62	61	45	65	77	69	....	61.8
	Minimum	43	26	32	20	10	24	29	37	30	28	39	31	25	38	50	42	37	51	49	55	45	50	43	38	45	41	34	32	48	59	....	37.4
Farmington	Maximum	76	67	50	41	38	43	54	52	55	61	71	55	50	69	64	61	67	81	75	80	76	69	62	69	58	65	61	65	76	71	....	62.8
	Minimum	54	34	36	26	17	35	32	38	31	30	39	32	28	31	49	46	39	57	55	48	52	58	48	41	49	51	43	37	50	44	....	41.2
Gano	Maximum	78	68	53	39	41	58	51	63	55	65	64	50	49	63	65	60	71	67	83	72	82	73	61	70	53	66	51	64	77	76	....	63.0
	Minimum	51	29	36	22	13	35	30	36	34	29	39	33	27	29	47	45	37	51	56	50	45	58	44	41	46	45	33	34	47	53	....	39.3
Hollister	Maximum	84	80	73	50	51	76	67	70	70	70	65	60	58	75	75	81	80	89	80	75	85	79	75	73	70	65	[illegible]	73	86	80	....	71.8
	Minimum	55	31	40	28	10	36	36	33	40	30	42	40	32	29	51	52	49	54	64	50	44	55	48	40	50	50	38	32	50	56	....	42.3
Koshkonong	Maximum	79	72	54	45	45	71	58	71	63	67	68	51	54	66	63	78	72	81	85	76	83	76	71	71	....	76	56	67	77	80	....	a68.2
	Minimum	52	34	37	28	21	39	33	40	41	41	49	33	32	32	52	56	43	60	68	61	50	67	59	45	....	59	42	37	50	57	....	a41.7
Lebanon §§	Maximum	80	60	50	29	43	55	55	63	58	63	56	45	51	67	72	71	75	80	81	72	61	66	65	72	57	60	52	65	73	68	....	61.9
	Minimum	51	28	29	28	9	10	32	35	34	33	35	42	27	27	33	48	41	41	50	50	49	51	41	36	42	50	35	31	31	51	....	37.0
Mountain Grove §§	Maximum	78	56	37	53	44	61	53	63	60	63	68	46	51	65	66	68	79	71	83	78	80	68	65	56	71	65	52	65	77	72	....	63.9
	Minimum	50	28	31	15	35	17	34	36	35	34	41	37	31	32	35	48	41	56	44	54	46	50	46	39	48	38	38	36	40	50	....	38.7
Neosho	Maximum	76	68	62	48	49	61	63	67	62	70	69	67	68	71	72	72	88	87	86	72	84	81	68	73	71	54	56	71	77	77	....	69.6
	Minimum	48	29	34	26	15	46	34	39	40	36	44	41	25	33	57	56	51	61	57	45	50	45	43	41	48	47	34	33	54	57	....	42.5
Rolla §§	Maximum	73	81	55	53	35	43	56	56	59	58	67	64	46	51	67	69	56	72	79	81	73	82	67	62	73	60	65	53	65	78	....	63.4
	Minimum	54	31	31	34	13	31	32	31	35	32	42	43	29	30	50	53	39	53	55	50	48	53	44	41	45	52	40	35	39	53	....	40.9
Springfield	Maximum	76	51	51	43	43	58	57	63	58	65	57	48	48	68	70	65	75	83	69	68	80	68	64	70	55	57	54	62	76	66	....	62.3
	Minimum	34	30	39	22	16	35	34	42	39	38	45	36	20	35	50	46	48	56	51	51	51	49	45	45	50	40	35	38	[illegible]	51	....	41.0
Southwest Plain.																																	
Amoret	Maximum	70	60	50	41	48	45	58	58	59	70	62	50	55	69	75	69	75	70	62	70	79	70	65	62	58	51	55	64	78	71	....	62.4
	Minimum	41	27	37	22	10	33	30	35	3	35	45	37	27	34	50	50	43	52	50	39	46	50	40	40	50	40	32	29	35	48	....	37.9
Appleton City	Maximum	73	55	53	41	44	45	57	58	58	68	64	59	51	68	75	76	76	72	67	71	78	75	65	64	61	56	55	64	75	73	....	63.0
	Minimum	47	29	38	25	13	35	32	37	31	37	43	40	30	35	53	52	[illegible]	43	55	44	5	46	42	45	53	44	34	34	48	50	....	40.4
Clinton	Maximum	78	56	61	51	43	47	56	68	61	62	63	58	52	69	77	71	76	71	65	72	84	76	65	66	61	57	56	65	76	71	....	61.4
	Minimum	50	39	37	23	10	31	31	33	48	40	45	40	30	39	52	54	41	54	50	45	50	45	42	40	55	45	34	33	45	45	....	40.3
Harrisonville §§	Maximum	73	55	41	27	41	46	51	55	58	67	57	50	51	67	56	55	63	64	62	69	79	61	64	61	57	52	55	51	56	64	....	57.2
	Minimum	53	28	28	23	10	16	31	58	32	37	41	58	28	30	39	52	40	41	51	40	43	42	41	41	14	50	32	32	33	48	....	56.7
Lamar §§	Maximum	76	57	47	39	52	55	62	55	53	61	61	58	41	64	68	68	81	85	64	73	84	67	63	72	59	56	57	65	78	71	....	63.0
	Minimum	50	28	40	27	15	42	33	33	36	37	42	39	28	25	52	54	44	56	60	42	49	45	41	45	48	51	32	35	49	51	....	41.5
Lamonte	Maximum	72	55	45	35	40	48	52	49	56	65	55	52	50	66	74	69	61	61	59	69	86	70	59	65	62	57	53	63	74	64	....	59.5
	Minimum	43	39	32	23	5	25	29	32	27	33	48	38	25	33	50	46	40	51	51	48	51	45	25	34	51	41	35	32	48	52	....	38.6
Marshall	Maximum	78	51	45	33	37	41	53	....	57	65	62	60	48	66	61	71	59	57	56	64	79	74	59	67	67	61	53	61	75	71	....	a59.7
	Minimum	51	29	32	23	6	30	29	....	31	34	40	37	30	31	35	56	38	49	41	49	49	44	36	....	60	42	35	32	51	49	....	b38.0
Warsaw	Maximum	79	65	52	42	44	46	54	58	57	65	65	59	50	70	75	70	75	71	69	73	81	72	64	68	63	63	55	65	80	70	....	64.1
	Minimum	54	31	35	25	10	36	30	33	3	29	42	40	27	30	52	52	42	55	55	46	52	49	45	36	54	47	36	31	49	52	....	40.2
Northwest Plateau.																																	
Chillicothe §§	Maximum	75	45	34	30	37	40	52	52	58	65	49	58	....	....	71	59	57	62	52	68	79	61	60	66	67	58	52	62	74	60	....	b57.4
	Minimum	54	28	28	22	5	15	28	33	30	40	38	33	41	....	....	40	38	42	48	46	47	45	45	38	38	47	36	32	40	48	....	b36.6
Grant City	Maximum	70	44	44	34	39	40	53	51	53	63	69	49	48	61	68	66	59	53	54	66	73	71	69	58	60	55	53	60	70	63	....	57.9
	Minimum	33	22	22	19	12	30	28	35	32	34	44	35	25	35	49	41	38	42	42	46	45	42	43	38	47	39	32	32	41	47	....	36.0
Kansas City	Maximum	70	52	38	28	49	43	52	47	57	66	55	49	50	66	75	57	56	55	55	67	75	61	59	59	58	52	51	63	76	57	....	56.5
	Minimum	31	29	28	20	17	32	35	38	37	42	47	36	31	38	52	44	29	49	50	43	50	42	45	45	51	40	36	39	47	49	....	39.4
Kidder §§	Maximum	71	46	34	28	37	38	49	51	55	62	59	45	47	61	60	58	56	60	59	63	75	54	57	61	60	48	50	60	72	65	....	54.6
	Minimum	52	26	34	22	10	14	28	31	32	32	40	37	28	28	37	31	38	38	44	45	45	42	41	40	40	47	32	32	35	44	....	35.3
Lexington §§	Maximum	75	52	37	28	40	42	54	49	60	65	52	48	50	66	75	59	58	56	55	68	80	63	58	63	63	53	53	62	75	60	....	57.2
	Minimum	55	29	35	23	14	32	32	35	39	37	45	33	30	34	50	53	40	50	50	46	50	45	45	38	50	50	33	35	45	50	....	40.0
Maryville §§	Maximum	66	41	31	28	37	39	51	51	57	63	46	45	48	64	69	60	56	53	49	66	73	50	55	59	59	46	48	60	70	58	....	53.3
	Minimum	51	21	21	18	6	11	25	25	32	31	38	33	24	24	31	42	37	37	42	40	40	40	40	34	38	44	29	28	31	44	....	31.9
Oregon	Maximum	72	45	40	28	38	39	48	51	57	65	68	47	47	66	71	65	58	60	52	66	78	72	56	56	64	54	50	59	71	58	....	56.8
	Minimum	29	22	22	17	13	26	26	33	33	38	39	34	25	34	48	42	36	43	42	37	41	38	40	37	46	35	29	30	42	46	....	34.2
St. Joseph	Maximum	68	47	37	29	33	39	39	52	58	66	53	47	49	67	76	62	56	59	53	69	78	54	56	59	60	51	51	61	74	59	....	[illegible]
	Minimum	28	27	27	21	16	31	33	37	31	43	38	34	29	35	52	45	40	49	48	43	49	42	45	38	51	38	34	36	47	48	....	38.0
Trenton	Maximum	72	45	40	32	37	40	48	52	53	60	56	48	45	61	70	65	56	62	54	61	73	68	59	66	63	57	50	57	71	65	....	56.3
	Minimum	38	27	28	29	15	30	30	33	32	40	42	37	26	34	49	45	43	38	45	48	45	44	42	49	43	36	35	42	48	48	....	37.4

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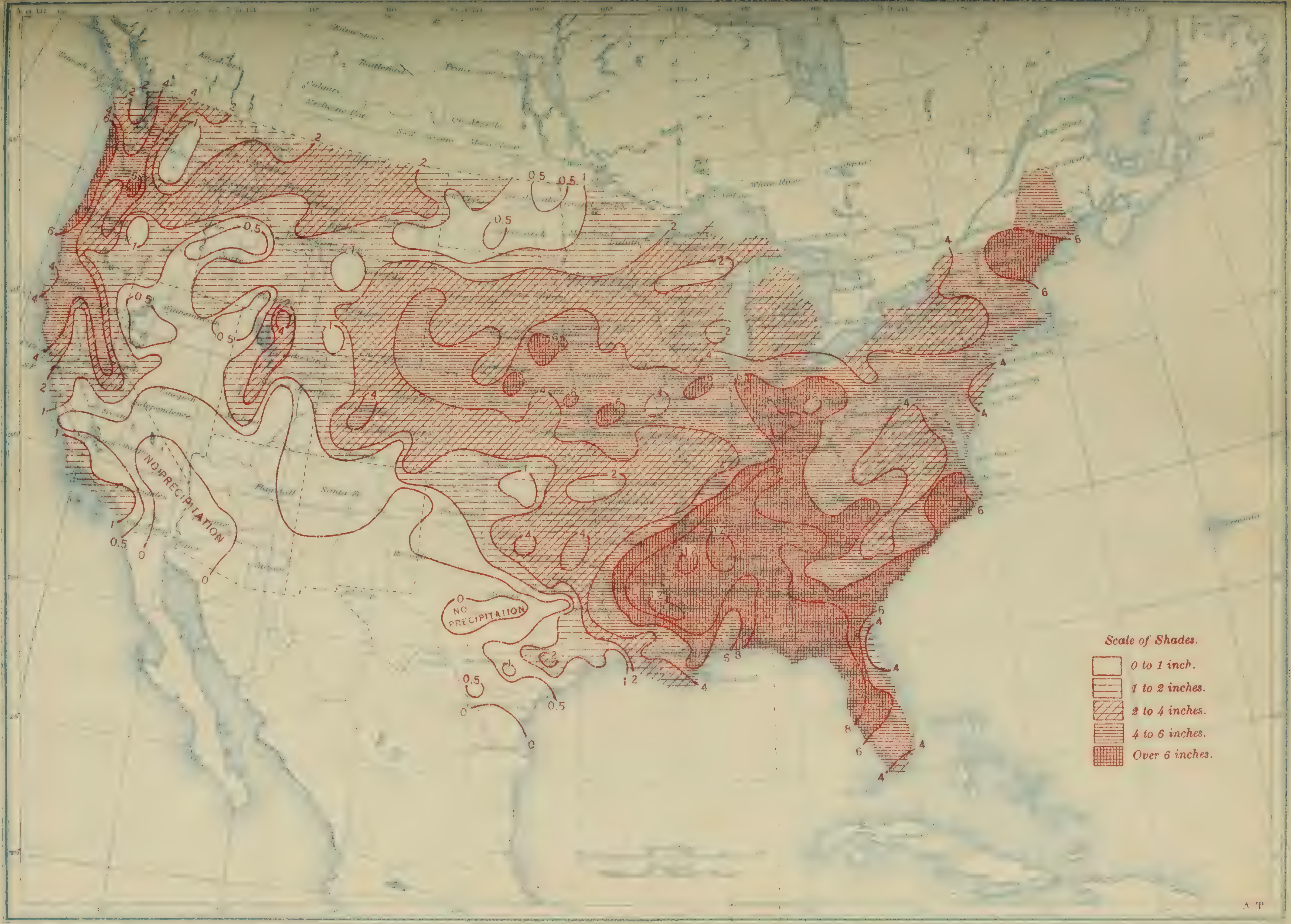
a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.


Scale of Shades.
0 to 1 inch.
1 to 2 inches.
2 to 4 inches.
4 to 6 inches.
Over 6 inches.
NO PRECIPITATION
NO PRECIPITATION
0
0.5
1
2
4
6
8
12
A. T.

Daily Evaporation (inches) and Wind Movement (miles) for April, 1920, at Columbia Mo.

Date.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mo.
Columbia*	Evaporation	.011	.260	.133	.066	**	.080	.064	.115	.051	.146	.168	.077	.023	.091	.122	.141	.093	.102	.115	.040	....	.317	.310	.068	.130	.106	.084	.087	.169	.228	..	3.523
	Wind movement	73	118	81	116	**	167	73	45	37	46	45	67	92	35	45	65	96	114	126	51	25	79	133	56	64	51	83	67	49	45	..	2,147
University of Mo.†	Evaporation	**	**	**	**	**	**	1.384	.059	.131	.150	.141	.041	.068	.142	.135	.150	.125	.104	.114	**	.434	.193	.254	.178	.128	.248	.142	.158	.031	.277	..	4.787
	Wind movement	195	260	149	212	84	146	95	70	94	36	67	218	61	28	176	106	22	225	175	61	111	233	250	117	115	124	194	77	81	138	..	4,124

*Observations taken at 6.45 a.m. †Observations taken at 5.30 p.m. ** Included in next following measurement. Both stations are located on the University grounds; one on the West Campus and the other about one mile southeast on the Experiment Farm. To prevent confusion of records the former will be known as "Columbia" and the latter as "University of Missouri." The equipment is the same in both cases (see Annual Summary, 1918); but the Experiment Farm station has a freer exposure to sun and wind.

OBSERVERS' REMARKS—APRIL.

Brunswick—Hail on the 20th broke through windows and rubber roofs; depth ranged from one-half to one inch. From 2 to 4 p. m. it was so dark that lights had to be used.

Louisiana—Beginning Easter Sunday snow fell for about 30 hours, the heaviest of the season. High winds all day. If some of the snow had not melted as it fell, it would probably have measured twelve or fourteen inches.

Macon—All vegetation late; too wet for anything.

Palmyra (Sunday, April 11th)—The snow that fell on Easter Sunday is still three to five feet deep in roadways. The rock road to Hannibal remained blocked until the 9th and was broken through by army trucks. Farmers living within one mile of the city limits were unable to get to town until the 8th. Rural mail routes were abandoned all week.

St. Catherine—On the 3d it began snowing and snowed until 2 p. m. of the 4th. On the 16th, 18th and 19th the creek was over the bottoms. April has been cold and wet, with little sunshine.

Warrenton—Cool and cloudy weather prevailed during April. All vegetation backward and no plowing or planting done.

Aurora—High winds on the 18th, followed by a thunderstorm on the 19th, with hail; no extensive damage reported. Generally speaking, the weather has been fairly good.

Farmington—This has been a backward and disagreeable month, with high winds and wet, cold weather.

Houston—We have had a lot of cool, damp weather this month, but the last five days everything was growing nicely.

Lebanon—The apple blossoms seem to be about 40 per cent undamaged by the heavy frost.

Lockwood—A very cold, wet month, with strong winds. All farm work delayed. Wheat looks good, but oats are only fair; corn planting late; pastures late. Fruit damaged on the 5th.

Amoret—Freeze on the 5th killed nearly all of the stone fruit. Considerable damage to apple buds.

Lamonte—A cold, wet, backward month. But little plowing and planting done. Wheat and pastures look very well.

Warsaw—Coldest on the 5th ever known in this section so late in the year, and the worst snowstorm on the 4th for any April. Entire month too cold and wet for work or growth of vegetation.

Avalon—The month has been cold and wet and not favorable for farmers. Very little gardening done and oat sowing backward. Land too wet to plow. Fruit trees in bloom the first of May.

Grant City—The entire month was very unfavorable for farm work and but little done.

Kidder—The past month was cold and wet and there was not much farming done.

Liberty—A great deal of damage was done to fruit by the frost of the 28th.

DAMAGING STORMS.

The storm period of the 3d-5th was an unusually severe one for April in Missouri. New records for the month were set for low temperatures, and, taking the state as a whole, for heavy snowfall.

There have been heavier local snows in April, but none were so heavy over such wide area as the one of this year, for the time that observations are available. Possibly the heaviest snow for April of which there is any record, fell in 1837, according to Prof. C. W. Pritchett, observer at Glasgow, Howard County, who says:

"On April 7th, 1837, it snowed all day in St. Charles and Warren counties, and, on the level, snow lay two and one-half feet deep on the morning of the 8th."

The snow of this April began at daybreak of the 3d in the northwestern corner of the State and continued throughout the day. The 4th was clear and cold. Over most of the State, however, rain and snow fell together or alternately during the afternoon of the 3d, but snow began during the night and continued to late afternoon or night of the 4th. Some stations reported steady snowfall for thirty hours. It was attended by high winds and drifted into the roads, oftentimes several feet deep. In many localities the roads could not be broken out for several days, and the remarks of Mr. W. B. Markell, observer at Palmyra, vividly describe conditions that obtained over much of northeastern Missouri.

Nine stations, from Maryville and Bethany in the northwest and Lamonte and Marshall in the southwest plain to Steffenville and Palmyra in the northeast, reported falls of ten inches or more in the two-day fall. Koshkonong, in Oregon County, had 8.0 inches, but, in general, the snow melted almost as fast as it fell in southern sections.

The morning of the 5th was the coldest April morning of which there is any record. Twenty stations, mostly north of the Missouri River, reported readings of 10° or lower. Edgerton, Platte County, was the coldest point, with a minimum reading of 4° above zero. Over the State south of the Missouri River generally, temperatures ranged from 12 to 16° and only in the extreme southeast were readings above 20° reported.

April 16th—Severe thunderstorm at Kirksville and vicinity. Lightning killed one man and set several barns on fire. Kidder reported heavy hail from 6 p. m. to 6:30 p. m.; hailstones generally small and only minor damage resulted.

April 19th—A day of many local storms, some of which were severe. There was one local storm of the tornado type in Franklin and St. Charles counties. Severe hailstorms occurred in Montgomery, Lawrence, McDonald, Taney, Macon and Johnson counties. At Macon the noise of the ice bombardment caused the Circuit Court to suspend session. Greenhouses, roofs and windowpanes were damaged about $5,000. At Chilhowee, Johnson County, some stones were very large; in places hail lay 18 inches deep. Shingle and metal roofs were penetrated and everyone had windowpanes broken out. The damage is estimated at $8,000. At Anderson, McDonald County, was "the worst hail in years, breaking holes in roofs, smashing glass and damaging fruit trees." At Hollister, Taney County, "much damage to fruit."

A tornado-type storm swept an irregular path about 400 feet wide and about a mile long in the vicinity of Union, Franklin County, about 5:30 p. m. An old bridge across the Bourbeuse River, several barns, and small buildings were demolished. It developed to the southwest of the town and traveled northeast. About 7:30 p.m., the same storm, or perhaps another, appeared at St. Charles. As the storm crossed the Missouri River the surface of the water was seen to be raised about 30 feet where the funnel touched the water. It unroofed a large factory and broke down the water tank of the sprinkler system, causing serious flooding of three floors of the factory. Heavy planks in the yards of the car shops were tossed about like matches. Many buildings lost awnings or were damaged slightly. It was all over in four minutes. The property loss at Union is estimated at $7,000 to $10,000, and at St. Charles, $4,000 or $5,000.

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U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

MISSOURI SECTION

IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

MAY, 1920

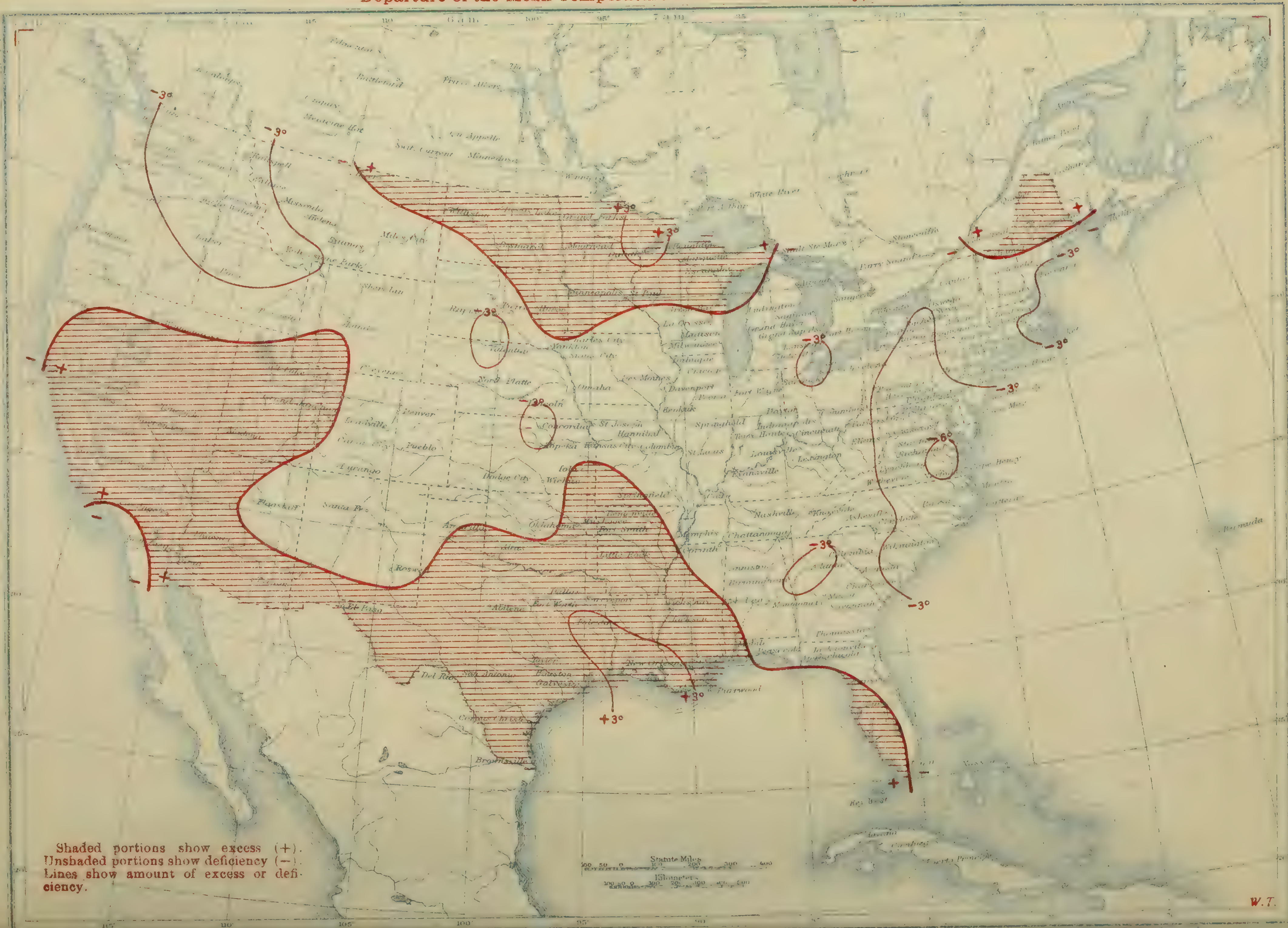
BY

GEORGE REEDER

METEOROLOGIST

COLUMBIA, MO.
WEATHER BUREAU OFFICE
JUNE 24, 1920

Departure of the Mean Temperature from the Normal, May, 1920.



Shaded portions show excess (+).
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXIV. COLUMBIA, MO., MAY, 1920. No. 5.

GENERAL SUMMARY.

Excessive cloudiness and frequent showers were the marked features of May, 1920, in Missouri. The month as a whole was cool, but the temperature extremes were within the usual limits. It was the frequency of showers rather than excessive amounts that placed the month with the wet Mays. Continuous showery spells of from five to seven days were not infrequent, and as a rule there were not more than two to three days between showers; but in spite of the frequency the total monthly fall was less than normal over most of the State north of the Ozark Plateau.

The lack of sunshine was marked in all sections, and, in connection with many showers and cool weather, materially retarded normal farm work and crop development—so much so that plowing for and planting corn was just under way generally during the closing days of the month. Wheat and oats made fair progress, while pastures and meadows put on fine growth.

Thunderstorms were numerous and there were a few damaging hailstorms. For a more detailed report of storms see page 40.

TEMPERATURE.

The monthly mean for the State, as determined from the records of 65 stations, was 63.8°, or about 0.8° below the normal. The month was nearly 2° warmer than May, 1919, but more than 4° cooler than the same month in 1918. The northern half of the State was cooler than divisions south of the Missouri River, while the southeastern lowlands experienced about normal warmth. The warmest periods were from the 9th to 11th, 22d to 26th, and on the 31st. Maximum temperatures were 90° or higher at several stations on the 22d, 26th and 31st, 97° being the highest, at Caruthersville. The coolest period prevailed from the 13th to the 17th, but a minimum of 32° occurred at only two stations. There were no frosts.

PRECIPITATION.

The average precipitation for the State, 80 stations reporting, was 4.85 inches. The departure from the normal for 72 stations having 10 or more years' record was plus 0.04 inch, or practically normal. In the Ozark Plateau and southeastern lowlands the rainfall was 1.77 and 2.06 inches, respectively, greater than normal; and about 2.50 inches less than normal in the northwestern plateau, while the southwestern and northeastern plains received only slightly less than their normal amounts. The month was one of frequent but generally moderate showers, though rains occurred at many stations, particularly on the 12th-13th, and 16th-17th.

The greatest monthly amount, 10.15 inches, occurred at Farmington, though Lamar received nearly as much. The greatest amount that occurred in any 24 hours was 3.70 inches, at Lamar on the 19th-20th.

WIND.

The prevailing winds were from the northeast. The average wind movement was 6,818 miles, based upon the records of eight well located stations equipped with anemometers. The average hourly velocity was 9.2 miles, or about normal.

SUNSHINE AND CLOUDINESS.

The average number of clear days was 9, or about 5 less than normal. The average number of hours of sunshine was 231, or about 52 per cent of the possible, and about 11 per cent below normal. This May received about 4 per cent less sunshine than May, 1919, and 17 per cent less than the same month in 1918.

MISCELLANEOUS PHENOMENA.

Fogs, dense—1st and 20th.

Hail—3d, 4th, 12th and 20th. (See page 40.)

Halos, solar—6th, 9th, 14th, 23d, 30th and 31st. *Lunar*—29th and 31st.

Thunderstorms (general)—1st, 2d, 3d, 4th, 11th, 12th, 18th, 20th and 30th. More or less local on 5th, 6th, 19th, 21st, 22d, 23d, 27th, 29th and 31st.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.99	57	......	209	47	5,683	7.6	37	nw.	12
Hannibal	30.02	76	......	......	......	6,632	8.9	36	w.	12
Kansas City	29.98	78	62	260	59	8,832	11.9	46	nw.	1
St. Joseph	29.98	79	59	209	47	6,193	8.3	35	nw.	22
St. Louis	30.01	72	59	230	52	8,174	11.0	38	s.	10
Springfield	29.97	86	70	208	47	7,209	9.7	42	nw.	3
Cairo, Ill	29.99	85	69	......	......	6,638	8.9	33	sw.	31
Keokuk, Iowa	30.02	74	55	268	60	5,187	7.0	24	ne.	12

SUPPLEMENTAL TABLE OF DATA.

Stations.	Length of record, years.	Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
		Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip. .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Arlington	15	......	....	......	......	...	...	...	...	...	Wm. R. Bennett.
Boonville	41	3.56	−1.71	0.92	0.0	18	8	3	20	se.	C. Randecker.
C. Girardeau	11	5.89	+1.75	1.25	0.0	12	13	3	15	n.	D. L. Albert.
Glencoe	1	4.13	....	1.20	0.0	10	15	5	11	......	L. M. Beard.
Hermann	44	6.95	+2.65	1.75	0.0	14	8	0	23	e.	J. G. Rebsamen.
New Madrid	24	6.34	+1.86	2.35	0.0	16	8	6	17	se.	Miss Josie Smith.
Osceola	18	2.90	+3.01	0.54	0.0	12	9	0	22	......	John T. Fields.
Pacific	1	4.05	....	1.05	0.0	14	17	2	12	e.	Mark Waters.
Steelville	16	6.55	+2.51	1.70	0.0	15	15	0	16	s.	A. Kreamelmeyer
Tuscumbia	1	3.43	....	0.65	0.0	14	10	2	19	ne.	C. B. Wright.
Union	1	4.95	....	1.12	0.0	16	11	5	15	se.	J. Wm. Keller.
Valley Park	1	4.44	....	1.41	0.0	11	15	5	11	......	T. W. McNeese.
Waverly	3	3.02	....	0.76	0.0	11	12	0	19	e.	F. N. Cauthorn.

COMPARATIVE DATA FOR MAY.

Year.	Temperature.				Precipitation.				Number of Days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	62.1	−2.3	93	30	5.35	+0.58	......	0	5	.....	.....	.....
1889	63.5	−0.9	96	28	6.56	+1.79	......	0	5	.....	.....	.....
1890	62.8	−1.6	96	32	3.47	−1.30	......	0	6	.....	.....	.....
1891	61.5	−2.9	97	28	4.26	−0.51	......	0	8	.....	.....	.....
1892	60.7	−3.7	91	28	7.80	+3.03	3.90	0	17	5	9	17
1893	66.8	−2.6	94	30	5.89	+1.12	5.83	0	10	11	11	9
1894	63.7	−0.7	95	22	3.99	−0.78	4.20	0	8	13	11	7
1895	64.6	+0.2	103	28	4.08	−0.69	3.43	0	9	13	12	6
1896	70.1	+5.7	96	32	9.09	+4.32	4.66	0	12	12	12	7
1897	62.4	−2.0	93	28	2.56	−2.21	3.82	0	7	16	11	4
1898	65.2	+0.8	97	31	7.90	+3.13	5.50	0	14	12	10	9
1899	66.9	+2.5	96	34	6.26	+1.49	5.28	0	12	10	13	8
1900	66.3	+1.9	97	29	3.69	−1.06	4.00	0	10	14	11	6
1901	63.8	−0.6	98	30	1.47	−3.30	3.04	0	6	15	10	6
1902	69.4	+5.0	98	39	5.03	+0.25	4.35	0	11	13	11	7
1903	65.1	+0.7	92	23	7.10	+2.33	3.10	0	15	9	10	12
1904	63.1	−1.3	95	32	5.03	+0.26	4.33	0	12	13	10	8
1905	64.9	+0.5	94	34	4.87	+0.10	4.55	0	10	12	11	8
1906	66.3	+1.9	98	27	2.16	−2.61	3.83	0	7	15	10	6
1907	59.5	−4.9	91	17	5.56	+0.79	4.33	0	10	14	6	11
1908	66.1	+1.7	96	24	6.92	+2.15	5.65	0	12	12	10	9
1909	63.3	−1.1	96	23	5.34	+0.57	5.26	0	9	15	9	7
1910	60.1	−4.3	94	32	6.62	+1.85	4.30	0	13	11	8	12
1911	68.8	+4.4	101	27	1.55	−3.22	2.06	0	5	19	7	5
1912	67.6	+3.2	97	30	3.86	−0.91	4.90	0	7	18	8	5
1913	65.8	+1.3	101	33	3.05	−1.93	2.95	0	8	16	7	8
1914	66.6	+2.0	98	31	1.47	−3.40	3.00	0	5	17	9	5
1915	63.7	−1.4	97	30	7.86	+3.04	7.10	0	12	12	7	12
1916	65.6	+0.7	96	33	5.61	+0.89	4.10	0	11	15	8	8
1917	58.7	−6.2	91	30	4.33	−0.47	2.60	0	10	15	7	9
1918	68.3	+3.8	100	28	5.49	+0.68	5.25	0	10	16	8	7
1919	62.0	−2.5	93	35	5.80	+0.87	4.50	0	13	10	10	11
1920	63.8	−0.8	97	32	4.85	+0.04	3.70	0	12	9	9	13

Climatological data for May, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	39	62.6	−1.8	86	22†	39	14†	37	3.86	−1.07	0.83	0	16	14	0	17	ne.	O.K. Benecke.
Clifton Hill	Randolph	731	21	63.4	−0.8	88	22†	36	14	35	5.07	−0.23	2.35	0	11	9	12	10	.....	L. S. Harlan.
Columbia	Boone	784	31	63.0	−1.5	86	22	37	14	30	4.48	−0.38	0.89	0	17	7	8	16	e.	U. S. Weather Bureau.
Fayette	Howard	725	41	62.5	−2.0	86	22	37	14	31	4.52	−0.13	1.02	0	15	6	11	14	ne.	Prof. D. R. Briggs.
Fulton	Callaway	818	33	63.3	−1.8	89	22	35	14	34	7.22	+2.54	1.95	0	16	5	13	13	n.	Prof. Claude A. Jones.
Gorin	Scotland	700	32	......	......	......	......	......	....	....	2.89	−1.69	0.98	0	8	9	8	14	ne.	J. W. Pulliam.
Hannibal	Marion	534	37	62.1	−2.3	87	22	38	14	29	3.80	−1.20	1.55	0	11	6	11	14	ne.	U. S. Weather Bureau.
Jefferson City	Cole	557	87	61.5	−3.7	86	22	37	14	30	4.97	+0.43	1.55	0	14	11	7	13	s.	Miss Emma Swift.
Kirksville	Adair	969	38	60.4	−2.0	84	22	34	14	27	4.01	−1.28	1.32	0	9	16	13	2	s.	Prof. Mark Burrows.
Louisiana	Pike	469	39	62.0	−1.9	85	23	39	14	32	7.52	−3.00	2.55	0	11	13	9	9	e.	J. T. Farrell.
Macon	Macon	875	26	62.3	−1.8	89	22†	34	14	35	3.91	−0.96	0.78	0	12	12	10	9	n.	W. C. Brown.
Mexico	Audrain	797	41	61.8	−2.7	89	22	35	14	39	6.93	+2.20	2.40	0	14	13	5	13	e.	Mrs. Abbie Snoddy.
Oakfield	Franklin	793	38	......	......	......	......	......	....	....	......	......	......	......	....	....	....	....	......	E. E. Steines.
Palmyra††	Marion	652	20	61.7ᵃ	−4.7	89	8	35	13	43	4.00	−1.04	1.71	0	10	7	12	12	ne.	W. B. Markell.
St. Catherine	Linn	850	9	60.4	....	82	26	35	14	31	3.08	....	0.83	0	16	8	12	11	e.	L. D. Baker.
St. Charles	St. Charles	456	41	63.6	−1.2	87	22	34	14	28	3.98	−0.27	1.15	0	8	6	11	14	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	83	64.8	−1.7	88	22	37	14	28	5.00	+0.76	1.81	0	14	7	14	10	ne.	U. S. Weather Bureau.
St. Louis (2)	......do	578	8	64.6	−2.2	87	22	38	14	26	5.44	+1.36	1.76	0	15	7	15	9	e.	St. Louis University.
Shelbina	Shelby	779	27	......	......	......	......	......	....	....	5.04	−0.12	2.02	0	9	....	....	....	......	S. G. Parsons.
Steffenville	Lewis	650	26	63.3	−1.0	90	26	34	14	39	4.69	−0.34	1.30	0	9	11	15	5	e.	Frank Hall.
Unionville	Putnam	1,072	27	60.4	−2.2	86	26	33	14	33	3.40	−2.61	1.20	0	6	6	9	16	ne.	Geo. W. Davis.
Warrenton	Warren	865	38	63.1	−2.0	88	22	34	14	28	4.56	−0.07	1.35	0	14	8	7	16	e.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	48	61.8	−1.4	86	22	39	3	27	3.36	−0.89	1.79	0	7	6	11	14	ne.	U. S. Weather Bureau.
Section means and	extremes	....	....	62.5	−1.9	90	26	33	14	39	4.61	−0.35	2.55	0	12	9	10	12	ne.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	29	72.4	+3.0	97	22†	47	14	33	4.71	+0.60	1.56	0	13	15	12	4	e.	H. E. Averill.
Doniphan	Ripley	344	16	67.8	+0.9	90	22†	42	14	33	6.59	+2.59	1.95	0	11	15	2	14	s.	W. W. Martin.
Jackson	Cape Girardeau	458	30	65.8	−0.1	92	22	38	14	40	6.29	+2.02	1.58	0	13	7	12	12	s.	L. M. Bean.
Marble Hill	Bollinger	420	26	......	......	......	......	....	......	....	......	......	......	......	....	....	....	....	......	F. W. Wells.
Patton (near)	Bollinger	500	10	......	......	......	......	......	......	....	9.64	+5.35	2.46	0	10	....	....	....	.....	George F. Ellis.
Poplar Bluff	Butler	339	16	68.4	+0.3	92	22†	41	14	36	5.63	+0.63	2.30	0	12	11	1	19	......	Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill	359	45	67.2	−0.3	90	23	43	14	23	5.02	+1.19	1.77	0	13	4	10	17	ne.	U. S. Weather Bureau
Section means and	extremes	....	....	68.3	+0.8	97	22†	38	14	40	6.31	+2.06	2.46	0	12	10	8	13	s.	
Ozark Plateau.																				
Arcadia	Iron	925	42	64.0	−0.7	88	22	36	14	38	7.87	+3.16	2.68	0	15	4	11	16	e.	Arcadia College.
Aurora	Lawrence	1,370	....	66.0	+0.1	88	2	41	15	36	5.02	−0.44	2.01	0	11	11	11	9	s.	C. D. Sprague.
Birchtree	Shannon	1,078	26	64.7ᵃ	−0.6	85	23	37	14	30	6.55	+2.33	1.23	0	10	9	10	12	s.	V. H. Kirkendall.
Bolivar	Polk	1,071	33	65.4	+0.4	85	4†	41	14	33	7.51	+2.27	2.38	0	16	5	11	15	s.	K. H. Brown.
Cassville	Barry	1,475	21		....	....	......	......	......	....	......	....	......	......	....	....	....	....	...	R. H. Wallen.
Dean	McDonald	1,000	21	67.2ᵃ	+1.3	89	23†	42	14	35	6.24	+0.20	1.92	0	13	15ᵇ	5ᵇ	9ᵇ	e.	H. E. Dean.
Eldon	Miller	934	21	62.4	−2.5	87	22	32	14	36	4.41	−0.43	0.70	0	13	2ᵃ	15ᵃ	13ᵃ	e.	E.H. Shepherd.
Farmington	St. Francois	918	23	64.4	+0.7	86	22†	34	14	30	10.15	+4.87	2.87	0	16	7	15	9	ne.	Robert Forsyth.
Gano	Dent	1,250	18	64.4	−1.2	86	22	41	15	30	6.49	+2.12	2.51	0	16	7	11	13	ne.	A. C. Leach.
Goodland	Iron	1,000	27	63.9	−0.7	87	22	34	14	38	7.04	+2.55	2.63	0	9	8	13	10	s.	F. M. Adams.
Hollister	Taney	735	17	67.2	−0.1	90	26	40	14	38	7.20	+3.17	1.10	0	14	15	0	16	se.	W. P. Chapmann.
Houston	Texas	1,280	27	65.7	+0.8	86	26	38	14	33	5.54	+1.52	1.28	0	10	6	11	14	se.	R. F. Harmon.
Koshkonong	Oregon	958	19	66.8ᵃ	−0.1	88	23	41	14	29	7.26	+2.43	1.48	0	15	6ᵃ	6ᵃ	18ᵃ	ne.	R. M. Hitt.
Lebanon	Laclede	1,265	32	63.4	−2.4	84	26	38	15	34	5.82	+0.32	1.82	0	17	8	12	11	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	24	64.8	+0.2	86	25†	40	14	35	6.66	+1.68	2.81	0	13	8	10	13	se.	C. S. Crow.
Mountain Grove	Wright	1,490	23	62.8	−1.4	84	26	37	14	33	6.86	+2.23	2.21	0	15	6	9	16	s.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	68.2	+2.0	87	2	45	14	31	7.57	+1.48	2.10	0	19	10	15	6	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,139	36	64.8	+0.2	86	23	35	14	33	6.28	+1.36	2.52	0	15	9	14	8	se.	Prof. Elmo G. Harris.
Springfield	Greene	1,350	42	65.0	+0.4	83	22	40	14	27	6.53	+0.98	2.49	0	19	10	13	8	se.	U. S. Weather Bureau
Section means and	extremes	....	....	65.1	−0.2	90	26	32	14	38	6.72	+1.77	2.87	0	14	8	11	12	s.	
Southwest Plain.																				
Amoret	Bates	831	13	63.6	0.0	88	31	38	14	31	2.66	−2.30	1.26	0	14	14	11	6	s.	Darby Fruit Farm.
Appleton City	St. Clair	853	28	65.3	+0.1	86	31	41	14	27	4.28	−1.30	1.01	0	18	4	21	6	ne.	W. G. Bigelow.
Clinton	Henry	765	33	65.4	+0.1	87	22†	40	14	31	4.30	−1.15	0.95	0	11	5	16	10	se.	A. E. Derwent, M. D.
Harrisonville	Cass	912	44	62.5	−1.5	86	26†	39	14	29	1.70	−3.17	0.43	0	11	8	5	18	se.	John H. Patterson.
Lamar	Barton	980	39	66.2	+0.2	88	31	42	14	30	10.05	+4.70	3.70	0	15	17	5	9	ne.	Joe W. Springer.
Lamonte	Pettis	863	33	63.7	−1.3	87	22	39	14	32	2.53	−2.47	0.70	0	8	7	13	11	e.	J. Ed. Hall.
Marshall	Saline	779	31	62.8ᵃ	−1.3	85	31	37	14	33	1.79	−3.15	0.52	0	9	14ᵇ	13ᵇ	2ᵇ	se.	Dr. W. H. Black.
Nevada	Vernon	860	28	65.5	+0.8	85	31	41	14	31	8.84	+3.20	1.65	0	13	11	9	11	s.	George A. Kaupp.
Warrensburg	Johnson	883	42	....	....	.....	..	......	......	....	......	....	......	......	....	....	....	....	.....	Geo. H. Collins.
Warsaw	Benton	715	25	6.53	−0.6	87	22	40	14	36	4.54	−0.60	0.82	0	17	4	20	7	e.	J. R. Smith, M. D.
Section means and	extremes	....	....	64.5	−0.4	88	31	37	14	36	4.52	−0.69	3.70	0	13	9	13	9	se.	
Northwest Plateau.																				
Avalon	Livingston	730	30	62.8	−0.4	86	26	40	14	28	3.33	−1.88	1.80	0	7	13	10	8	sw.	F. G. Ashbaugh.
Bethany	Harrison	916	28	62.5	+0.1	88	10†	37	1	40	1.99	−3.13	0.65	0	8	8	6	17	se.	M. H. Moulton.
Chillicothe††	Livingston	768	15	62.4	+1.3	89	22	39	14	35	2.93	−2.57	1.46	0	9	19	0	12	se.	R. L. Isherwood.
Conception	Nodaway	982	35	61.4	−0.3	88	22	40	14	35	1.99	−2.71	1.00	0	7	9	10	12	ne.	Fr. Adelhelm Hess.
Edgerton	Platte	856	....	62.8	....	89	22	32	1	39	1.47	....	0.49	0	9	8	8	15	ne.	H. Killingsworth.
Gallatin	Daviess	....	....	......	....	......	.....	......	......	....	......	....	......	......	....	....	....	....	....	
Grant City	Worth	1,134	29	61.8	0.3	86	22	39	13	34	2.31	−2.41	1.35	0	4	12	3	16	e.	W. H. Campbell.
Kansas City	Jackson	963	31	63.2	−1.3	88	31	43	13	27	3.06	−2.05	1.35	0	11	6	14	11	e.	U. S. Weather Bureau
Kidder	Caldwell	1,020	33	60.0	−3.0	84	22	38	14	32	2.62	−2.93	0.98	0	10	12	6	13	ne.	J. F. Sharp.
Lexington	Lafayette	688	38	63.6	−0.9	86	22	40	14	31	3.15	−1.98	0.56	0	13	11	0	20	s.	J. W. Keithley.
Liberty	Clay	864	30	63.2	−1.5	87	22	39	14	36	2.90	−2.25	1.48	0	13	6	18	7	ne.	James H. Harris.
Maryville	Nodaway	1,036	30	59.4	−1.6	89	21	38	1	45	1.72	−4.21	0.43	0	10	15	1	15	s.	J. R. Brink.
Oregon	Holt	1,048	64	60.7	−2.6	86	22	38	1	35	2.23	−2.67	0.87	0	11	8	13	10	se.	Tom Curry.
St. Joseph	Buchanan	967	46	63.0	−1.5	86	22	44	1	30	1.61	−2.73	0.54	0	12	6	13	12	e.	U. S. Weather Bureau.
Tarkio	Atchison	976	27	61.8	−1.8	85	22	40	14	36	3.96	−0.85	1.95	0	10	11	10	10	ne.	John F. Frazier.
Trenton	Grundy	822	25	63.1	−0.8	86	22	40	14	28	3.13	−2.34	1.23	0	11	13	8	10	se.	W. H. Estes.
Section means and	extremes	....	....	62.1	−1.2	89	22	32	1	45	2.53	−2.47	1.95	0	10	10	9	12	ne.	
State means and	extremes	....	....	63.8	−0.8	97	22†	32	1†	45	4.85	+0.04	3.70	0	12	9	9	13	ne.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ᵃ, ᵇ, ᶜ, appearing in the table indicate number of days missing; for example, ᵇ represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Oakfield, Pacific, R. F. D. No. 1; of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily precipitation for May, 1920.

Stations.		Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville ‖	Missouri		.14	.22	.01			.04					.92	.21	.03		.11	.35		.16	.49	.03		.26	.08				.03	.40	.02	.06	3.56
Brunswick ‖	Grand		.83	.15	.12								.17	.20			.24	.25		.15	.42	.05		.37	.07	.08			.10	.56		.10	3.86
Clifton Hill	Chariton		2.35		.08		.02	.06				.70	.35				.52	.05		.55					.34				.05				5.07
Columbia***	Missouri	T.	.89	.19	.22	T	.02	.20			T.	.68	.22	.01		T.	.72		.29	.33	.02			.40	.02				.11	.01	.15	T.	4.48
Fayette	do		1.02		.12		.01	.07			T.	.45	.49	T.			.47	.04	.07	.28	.24			.18	.70				.11		.27		4.52
Fulton	do		.95		.13	.22		.76					.87	.11			.21			.37	.17		.02	.40	1.95	.02			.47		.02	.55	7.22
Glencoe ‖	Meramec		.80	.15	T.	.30	.15					T.	.24	.15				1.20			.57				.27	.30							4.13
Gorin	Mississippi		.01									.42	.96				.98			.11				.03	.37			.01					2.89
Hannibal***	do	.07	.81					.01			T.	.60	.98	T.			.69		.30	.12	T.			.10	.02				.19				3.89
Hermann ‖	Missouri		1.09	.17	.07	.54		.60					.06	1.75				.58		.23	.70	.07			.08	.30						.71	6.95
Jefferson City ‖	do		.62	.10				.15					.67	.08	.03		.25	.20		.32	1.55	.25		.52	.18							.05	4.97
Kirksville	Mississippi		.57									1.32	.47				.50	.13	T.	.40				.10	.39			T.	.13				4.01
Louisiana	do		1.55		T.	.35		.05				.55	2.55				1.35		T.	.18	.22		T.	.20	.35				.17				7.52
Macon ‖	Chariton		.65	.05				.04				T.	.78	.43			T.	.51		.43	.11		T.	.16	.51				.19	.05			3.91
Mexico ‖	Mississippi		2.40	.15	.05	.10		.11					1.38	.45				.26		.23	.62			.29	.09	.10				.70			6.93
Oakfield	Meramec																																.....
Pacific ‖	do		.69	.05	T.	.13		.15	T.			.04	.51	.18				1.05	.02		.92	.04			.16	.08						.03	4.05
Palmyra ‖	Mississippi		.76	.12								1.71	.30				.63			.24	.09	.03		.07	.05					T.			4.00
St. Catherine	Grand		.83	.01			.01	.09			.01	.59	.15	T.			.30	.02	.04	.08	.03			.02	.63			.04	.23				3.08
St. Charles	Missouri		1.15		T.	.10					.05	.14	.99				1.08	.27		.20	T.		T.		T.						T.		3.98
St. Louis (1)***	Mississippi	T.	1.52	T.	.08	.01	.06	.04			T.	.01	.65	T.			1.43	.38	T.	.12	.20		T.	T.	.35						.14	.01	5.00
St. Louis (2)	do		1.37		.02		.08	.02			T.	.13	.84	T.			1.43	.33		.11	.25		.04	.03	.52						.26	.01	5.44
Shelbina	do		1.02					.10					2.02				.50			.40	.20			.15	.10				.55				5.04
Steffenville	do		1.30								T.	1.10	1.16				.55	.03	.06	.20				.04	.25								4.69
Union ‖	Meramec		.70	.07		1.12	.02	.25				.15	.16	.34	.02			.92		.05	.85	.08			.10	.05						.07	4.95
Unionville	Chariton	T.	T.	.50							T.	.65	.55			T	.30		.20				T.				1.20	T.	T.				3.40
Valley Park ‖	Meramec		.93	.19	T.	.13		.14					.60	.44	T.		T.	1.41			.43		.02		.09	T.					T	.06	4.44
Warrenton ‖	Mississippi		1.35	.24	.01	.10		.10				T.	.34	.65			T.	.68		.14	.39	.03			.04	T.					.14	.35	4.56
Keokuk, Iowa***	do							T.			T.	.66	1.16	T.			.76		.21		T.		.30	.13	.14			T.	T.				3.36
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi		.05	.10		.25		.10					.30	1.03				1.25	1.00		.05	.05				.73						.98	5.89
Caruthersville	do		.03	.50	.32	.26	T.	.05				T.	.38	.20	.20		.56	1.56			.25	.25			T.						T	.15	4.71
Doniphan	Black		T.	.25	.11	1.40	03	T.				.35	.15				1.95	.45			.10	.40				T.				T.	1.40		6.59
Jackson	Mississippi	.10	.18				.80				.02	.25	.95				1.40	1.58		.22	.11				.15						.03	50	6.29
Marble Hill	do																																.....
New Madrid ‖	do			.45		.60	.18	.15	.02			.14	.70	.03			.35	2.35	.10	.05	.25	.02				.12						.83	6.34
Patton (near)	do			.75			.97						1.00					2.00	2.46		.15	.27			.57						1.15	.32	9.64
Poplar Bluff ‖	Black		T.	.29	.02	.60	T.	.04				.28	.05	.04			2.30	1.40			.20	.10			T.					T.	.31	T.	5.63
Cairo, Ill.***	Mississippi	T.	.14	.13	.14	.21	.01	.10				.41	.34	T.			1.16	.58	T.		.03	T.			T.						1.24	.53	5.02
Ozark Plateau.																																	
Arcadia ‖	St. Francis		.05	1.12		.21	.23	.02	T.			T.	.38	1.88			.12	2.68	T.		.10	.10			.22	.37					.24	.15	7.87
Aurora	White		T.	.21	.57	.11	.59			.02		.04	T				.30			.31	2.01	.84		T.	T.						.02		5.02
Birchtree	Black			.22	.56	.85						.54	.83				1.23	.28												.45	1.22	.37	6.55
Bolivar	Osage		.11		.20	.32	.38				.17	.07		.80		T.	.23	T.		.20	.98	.20		.58	.30					2.38	.57	.02	7.51
Cassville	White																																.....
Dean	Neosho		.15	T.	1.92		1.12				.05	.13		.02		.50	.28			.58	.93	.02		T.	.02				T.	.52			6.24
Eldon	Osage		.23	.43									.68	.03			.62			.70	.03	.12		.42	.47				.39		.21	.08	4.41
Farmington	St. Francis		.21	.30	T.	.32	.03	.05				.15	.60	.55			1.55	1.09		.03	2.87	.78			1.16						.06	.40	10.15
Gano	Meramec	.20	.06	1.32	.07	.10	.07	T.				.42	1.58	.93			.70	.31		T.	.05	.10			.27						.15	.16	6.49
Goodland	Black			2.63								.25	.90	.86			1.15	.70			.05	.13			.37								7.04
Hollister	White		.35	.35	.57	.23	.60	1.10	.60								.45		.45	1.10	.15	.50							.35		.40		7.20
Houston	Gasconade	.15		.15	.32	.50					T.		T				.71	.15		T.	T.				1.08					.32	.88	1.28	5.54
Koshkonong	Black	.08	.04	.50	.60	.53	T.	.04				.23	.37				1.28	.19			.90	.31								.12	1.48	.59	7.26
Lebanon ‖	Osage			.06	.30	.25	.02	.03				.02		1.34			.08	.25		.03	.18	.16			.28	.30			.08	T.	.62	1.82	5.82
Lockwood	do		T.		.50	.15	.70					.15					.28			.81	2.81	.19		.25	.05				.03	.72	.02		6.66
Mountain Grove ‖	White		.22	.34	.11	.70	.38						.12	T.	T.		.06	.44			.45	1.28	.28		.15	.06					2.21	.06	6.86
Neosho	Neosho	.12	.09	.05	2.10	.25	.72	.08			.02	T.	.22	.28		.26	.01			.47	1.66	.71		.25	.20					.05	.03		7.57
Rolla ‖	Meramec		T.	.60	.08	.16	T.	.06				.13	.26	2.52			.09	.33			.65	.12			.08	.08				.92	.20		6.28
Springfield***	White	.03	.20	.71		.14	.37	.02			.01	T.	.07	T.		.01	.10		T.	1.32	1.48	.15		.19				.96	.27	.01	.31	.18	6.53
Steelville ‖	Meramec		.27	.51			.38	.05					.15	1.36			.08	.73			1.70	.11			.27	.13			.74		.02	.05	6.55
Tuscumbia ‖	Osage		.12	.64	.02			T.					.23	.65	.03		.15	.23		.17	.54	.04		.10	.35				T.	T.	.16	T.	3.43
Southwest Plain.																																	
Amoret	Osage		.27	.01	.04		1 26							.20		.07	.09	.02		.19	.22	.02		.17	.06					.04	T.		2.66
Appleton City	do		.26	.01	.10		1.01				.01	.28		.33			.18			.04	.43	.04	.13	.63	.36	T.			.05	.28	.12	.02	4.28
Clinton	do			.28	.20		.53					.13					.42		.34	.20				.25						.75	.25	.95	4.30
Harrisonville ‖	do		.18	.07				.11					T.	.04	T.		.18			.24	.02			.43	.19				.03			.21	1.70
Lamar ‖	Neosho		.16	.16	.43		1.20	.85				.16	.07				.38			.35	3.70	.06			.73	.15				1.13	.52		10.05
Lamonte	Missouri	.18					T.					.60	T.	.15		T.	.70			.20	.40	.12		.18	T.				T.			T.	2.53
Marshall	do			.25	T.							.20	.52				.35			T.	T.	.02	.35	T.					.03	.02	.05		1.79
Nevada	Osage		.58	.20	.27		1.65					.28		.47		.06				.50	1.45	T.		.78	.95				T.	.39	.90		8.48
Osceola ‖	do		.22		.54			.41					.20	.45				.11			.19	.20		.30	.12						.11	.05	2.90
Warrensburg	Missouri																																.....
Warsaw	Osage		.15	.11	.06	T.	.12	.12			T.	.38	T.	.02			.35	.03		.25	.82			.82	.08				.38	.28	.23	.34	4.54
Waverly ‖	Missouri		.76	.12				T.					.47	.17			18	.22		.09	.29			.29	.23	.20						T.	3.02
Northwest Plateau.																																	
Avalon	Grand		1.80				.12					.50	.10				.30			.18			.33										3.33
Bethany	do		.65	T.	.04		T.	T.				.20	.42	T.			.20	T.	.03	T.	T.	T.	T.	.25	T.		T.	T.	.20				1.99
Chillicothe ‖	do		1.46		.05							.03		.20			.10			.27				.12	.63				.07				2.93
Conception	Missouri		.34		T.		.05	T.				T.	1.00	.03			.10				.06		T.	.41	T.		T.		T.			T.	1.99
Edgerton	Grand		.49		T.		.07					T.		.10		T.	.07		.44	T.	.05		T.	.11	.13			.01					1.47
Grant City	do		.46			T.	T.					T.	1.35				T.		T.	T.	.15			.35	T.		T.	T.					2.31
Kansas City***	Missouri		.15	T.			.04					.08	.02	1.05		T.	.10		.17	T.	T.			.08	.02			1.31	.04		T.	T.	3.06
Kidder ‖	Grand		.78	.05									.05					.20		.32	.02			.15	.98				.05	.02			2.62
Lexington ‖	Missouri		.10	.26									.02	.12			.05	.25		.56	.15			.48	.30	.09			.37	.40			3 15
Liberty	do		.55		T.		.03					.12	.10	.16		T.	.15			1.48	.01	T.		.11	.08			.01	.07			.03	2.90
Maryville ‖	do		.30					.04	.14				.07	.37			.03	.02			.14	T.		.43		T.		.18	T.	T.			1.72
Oregon	do	.87	T.				.04	.11		T.		.04	.05	.04			.03				.30			.55			.08	T.		.12			2.23
St. Joseph***	do		.11		T.		.01	T.				01	.03	.04		T.	.05		.27	.51	.03		.12	.15	T.		T.	T.	.28				1.61
Tarkio	do		.25					.20					1.95	.10			.09				.26			.57			.47		.03			.04	3.96
Trenton	Grand	.35	.13				.14	T.				.06	1.23			T.	.09		.57		T.	.04	T.	.06	.39			T.	.07				3.13

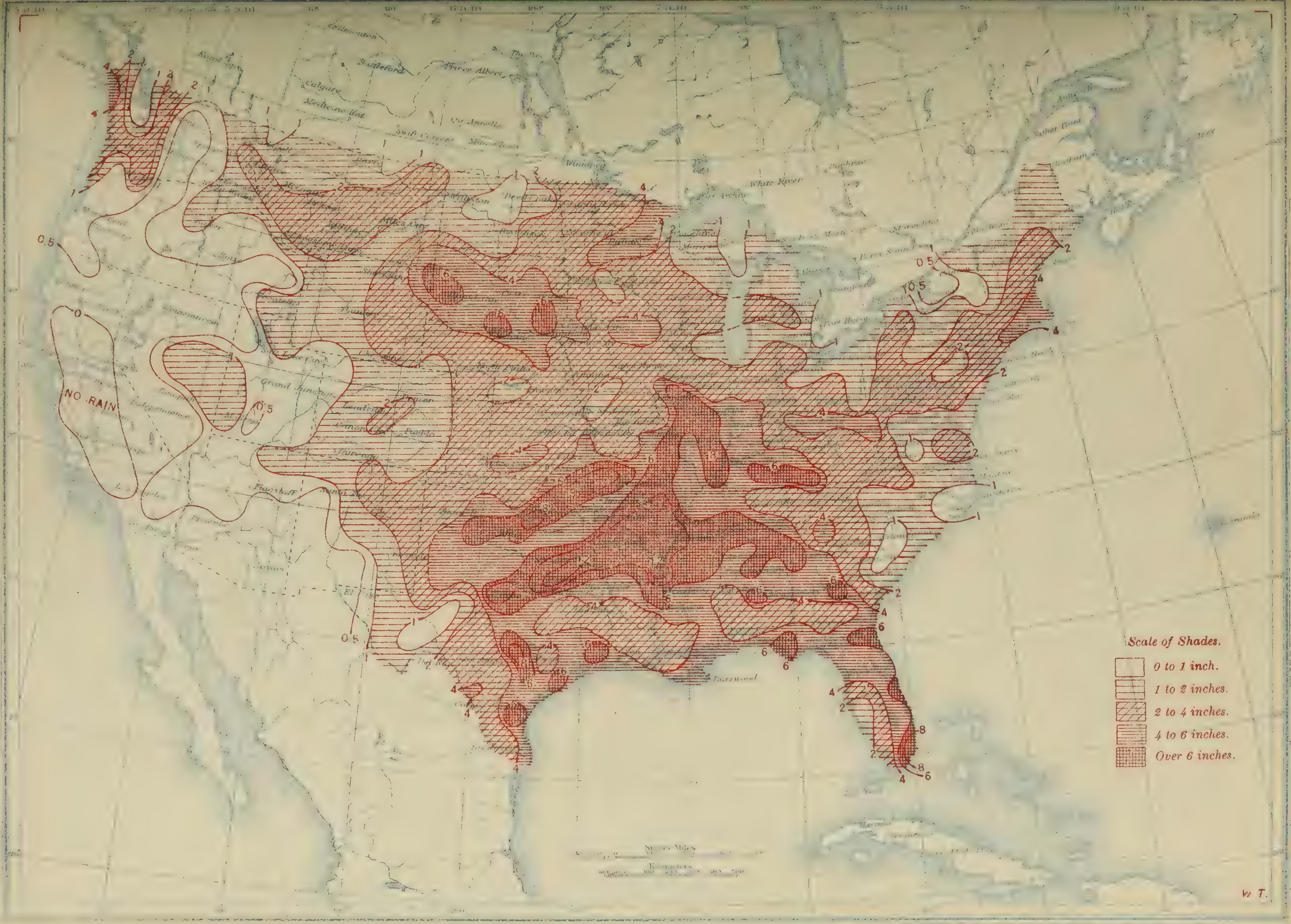
Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch.
*** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily temperatures for May, 1920.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	70	69	71	69	72	66	72	79	81	80	81	66	60	62	58	55	64	80	75	71	82	86	75	82	84	86	71	66	78	82	85	73.5
	Minimum	41	42	45	45	51	52	52	44	44	57	57	60	46	39	39	47	49	49	51	52	50	51	65	64	63	59	59	58	55	59	61	51.8
Columbia	Maximum	69	63	68	70	67	63	71	73	79	76	80	73	56	59	58	55	61	80	77	71	80	86	75	79	78	82	73	64	76	77	81	71.6
	Minimum	44	54	46	52	53	54	54	46	50	59	62	49	46	37	47	48	54	52	58	56	50	68	65	65	61	56	64	55	55	62	62	54.3
Hannibal	Maximum	65	60	64	66	67	69	69	75	78	79	76	59	56	58	62	55	62	72	75	71	79	87	77	74	78	84	76	66	75	78	82	70.8
	Minimum	41	50	42	49	50	49	54	47	53	58	59	47	44	38	45	49	53	53	56	57	50	65	67	62	58	57	64	57	57	61	63	53.4
Jefferson City §§	Maximum	56	55	58	71	68	55	53	59	61	73	81	79	56	60	58	55	63	79	75	73	81	86	76	80	81	83	76	65	76	81	79	69.4
	Minimum	44	49	51	51	52	52	52	49	49	55	53	64	45	37	42	47	48	49	57	57	53	59	67	66	61	57	61	61	56	59	60	53.6
Kirksville	Maximum	65	62	65	66	68	67	70	75	78	78	74	62	56	60	58	56	60	74	73	68	76	84	79	73	77	82	77	67	75	78	82	70.5
	Minimum	40	49	39	40	43	43	49	49	53	55	58	46	43	34	41	47	49	49	50	52	49	64	61	59	55	57	60	56	54	57	59	50.3
Louisiana	Maximum	65	65	60	65	65	68	68	72	78	78	80	75	64	58	62	62	64	72	75	74	75	84	85	76	73	80	82	76	72	76	78	71.8
	Minimum	48	50	42	48	52	50	52	44	46	50	50	57	45	39	42	50	50	52	58	58	48	65	65	60	51	56	60	55	57	55	60	52.2
Macon §§	Maximum	70	61	68	69	74	68	73	79	82	81	81	62	61	65	59	53	64	79	77	71	83	89	75	79	84	89	74	65	79	81	87	73.6
	Minimum	40	48	45	46	48	47	50	46	53	56	57	55	44	34	42	48	48	49	52	51	48	55	63	60	56	56	60	56	54	56	58	51.0
Mexico §§	Maximum	71	61	68	65	70	64	71	77	81	80	82	70	59	61	60	55	63	79	79	70	80	89	72	73	79	85	75	65	72	79	84	72.2
	Minimum	41	51	43	48	48	48	51	45	51	55	59	60	44	35	42	47	49	53	56	55	41	63	66	66	58	46	63	50	49	59	52	51.4
Oakfield	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
St. Catharine	Maximum	66	63	64	65	68	66	68	77	77	77	75	69	58	57	57	55	60	74	72	66	77	83	78	75	77	82	75	65	78	77	80	70.4
	Minimum	40	49	40	47	46	47	50	45	48	54	59	43	43	35	43	46	48	48	50	50	46	66	61	58	57	57	55	54	55	57	63	50.3
St. Louis (1)	Maximum	68	60	65	66	67	67	69	73	80	79	78	78	56	59	62	58	63	75	79	75	80	88	80	76	78	84	83	73	77	77	81	72.7
	Minimum	48	50	49	52	52	53	54	56	58	61	64	50	42	37	45	50	56	58	62	62	61	66	72	65	61	64	69	64	61	62	63	57.0
Unionville	Maximum	68	64	65	64	70	65	70	76	78	78	72	65	57	60	62	58	60	75	74	66	78	85	78	74	80	86	76	74	78	80	84	71.7
	Minimum	36	50	38	45	43	42	50	47	50	55	60	45	42	33	38	50	37	48	50	52	45	65	58	60	53	55	58	56	50	53	58	49.1
Warrenton §§	Maximum	70	57	66	66	68	64	70	75	83	80	80	75	55	59	60	56	64	76	78	72	81	88	79	79	81	86	78	68	77	78	82	72.6
	Minimum	48	56	44	48	49	50	51	49	55	55	59	62	45	34	40	49	49	51	55	56	54	62	69	67	57	58	64	60	49	58	60	53.6
Southeast Lowlands.																																	
Caruthersville	Maximum	80	76	82	87	78	78	70	83	83	87	87	77	68	76	72	70	70	86	85	85	92	97	97	94	91	96	91	97	90	92	87	84.0
	Minimum	54	59	58	55	58	58	62	53	51	56	66	63	55	47	49	54	59	62	62	65	65	65	68	71	68	63	71	65	69	68	67	60.8
Doniphan	Maximum	77	76	73	82	77	74	71	78	80	81	82	81	70	62	63	62	73	82	82	80	81	90	90	89	84	85	86	86	81	80	78	78.6
	Minimum	52	53	56	55	53	52	57	45	48	51	64	55	52	42	47	50	58	60	55	65	62	65	66	65	64	55	65	65	65	62	62	57.0
Jackson	Maximum	72	71	73	76	74	71	69	75	82	82	81	80	72	62	67	63	64	80	83	86	85	92	91	87	85	87	89	84	81	84	82	78.4
	Minimum	42	52	53	53	53	50	55	44	42	48	62	60	49	38	42	50	58	58	60	65	58	62	64	59	55	49	52	54	53	53	54	53.1
Marble Hill	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Poplar Bluff	Maximum	75	80	77	82	71	74	71	80	82	84	82	82	66	62	68	62	75	81	82	82	85	92	92	88	86	89	91	89	90	87	82	80.3
	Minimum	49	52	54	54	54	54	55	50	46	55	51	64	54	41	48	49	59	58	53	66	61	65	67	62	60	59	60	62	63	62	62	56.4
Ozark Plateau.																																	
Arcadia §§	Maximum	72	71	70	78	69	70	68	76	81	78	77	79	53	61	60	61	64	79	80	83	80	88	84	78	81	83	82	80	77	80	74	74.7
	Minimum	42	50	53	52	51	49	53	43	43	50	59	61	47	36	41	48	47	47	56	65	56	59	66	66	61	54	58	60	58	61	60	53.3
Aurora	Maximum	74	88	79	81	81	68	71	72	78	77	77	81	67	60	64	60	70	82	75	72	85	86	77	82	74	76	81	74	77	81	86	76.1
	Minimum	50	59	58	56	61	57	53	45	45	57	59	60	49	47	41	47	53	46	53	59	61	64	67	63	64	60	57	62	62	60	62	56.0
Birchtree	Maximum	69	80	73	80	67	70	72	77	79	77	77	80	62	63	60	59	68	78	76	78	78	....	85	79	81	82	80	82	79	76	72	a74.7
	Minimum	48	52	54	52	51	54	51	49	49	54	60	54	49	37	44	47	54	54	56	61	58	....	64	61	62	61	55	63	63	60	60	a54.7
Eldon	Maximum	59	70	72	77	66	67	71	77	82	78	81	81	57	51	58	56	67	79	75	75	84	87	85	81	82	81	75	68	78	80	81	73.7
	Minimum	38	50	50	51	50	50	50	45	46	50	59	50	42	32	42	45	45	45	53	55	52	64	61	62	52	52	60	55	53	60	58	51.0
Farmington	Maximum	72	68	69	73	74	61	66	74	78	76	78	74	59	64	60	56	64	74	76	79	82	86	83	81	82	86	84	78	78	81	80	74.3
	Minimum	49	44	52	51	50	52	52	49	48	54	59	59	46	34	46	47	48	50	61	62	56	61	69	64	60	59	63	62	60	62	61	54.6
Gano	Maximum	72	72	73	80	70	73	69	73	80	75	79	78	57	60	58	56	66	80	79	75	82	86	81	80	78	82	83	73	78	80	76	74.3
	Minimum	53	52	51	51	49	53	51	48	60	55	59	55	44	48	41	46	53	60	58	59	53	64	65	62	60	52	55	56	58	59	59	54.5
Hollister	Maximum	71	89	83	85	79	75	78	68	80	75	80	80	65	60	63	58	75	83	78	76	83	89	84	87	85	90	85	78	80	80	80	78.1
	Minimum	54	57	60	55	61	60	60	51	52	56	60	52	44	40	50	48	56	45	56	61	62	62	65	64	60	56	56	61	62	61	60	56.4
Koshkonong	Maximum	72	84	74	81	70	71	73	77	81	75	78	80	72	61	60	59	68	80	78	79	81	87	83	84	83	85	....	85	85	80	74	a76.9
	Minimum	52	55	54	52	54	54	58	52	54	52	55	60	50	41	47	49	48	51	58	69	63	66	65	66	64	59	....	65	64	61	61	a56.6
Lebanon §§	Maximum	68	79	75	82	68	67	75	76	77	71	79	81	57	68	57	58	61	78	74	71	80	81	76	78	80	84	78	74	81	75	77	73.8
	Minimum	44	45	55	54	55	54	53	45	45	57	58	61	47	47	38	48	48	47	52	56	56	57	61	63	62	57	56	56	54	56	59	53.1
Mountain Grove	Maximum	66	79	70	79	70	66	70	75	77	70	75	77	55	63	57	56	68	72	73	78	77	83	80	80	81	81	83	77	79	74	74	73.2
	Minimum	45	46	52	52	51	53	53	46	48	53	54	59	51	37	39	42	48	48	51	55	58	56	62	64	59	56	55	56	60	58	60	52 5
Neosho	Maximum	77	87	84	83	83	79	70	73	78	77	79	81	74	63	65	59	70	80	80	79	86	85	85	83	85	86	84	80	75	84	87	78.7
	Minimum	52	62	58	55	61	59	57	47	47	58	62	59	50	45	48	47	54	47	55	62	60	64	68	64	63	58	64	60	62	74	63	57 6
Rolla	Maximum	68	73	72	74	80	71	72	71	71	81	73	79	79	59	63	59	56	63	80	77	75	82	86	79	76	81	84	80	74	77	81	74.1
	Minimum	47	48	53	52	52	51	53	50	51	58	61	62	46	35	45	48	51	51	58	60	55	67	68	65	63	65	59	60	60	60	61	55.4
Springfield	Maximum	66	81	71	80	71	61	68	72	74	72	77	77	63	62	54	58	65	78	72	71	78	83	75	80	77	82	79	74	77	76	76	72.7
	Minimum	49	62	56	58	59	57	57	54	54	57	60	61	46	40	48	48	53	51	59	60	59	66	67	66	65	62	61	62	62	61	60	57.4
Southwest Plain.																																	
Amoret	Maximum	72	76	70	75	72	66	70	73	76	76	76	82	62	62	55	58	65	80	74	72	79	84	82	78	82	87	80	80	80	80	88	74.6
	Minimum	42	56	54	55	50	52	50	45	49	45	50	55	45	38	48	46	50	50	53	54	52	65	55	64	60	58	58	55	54	59	59	52.5
Appleton City	Maximum	71	74	71	80	71	64	71	74	75	78	77	82	73	61	58	57	65	78	77	71	79	85	82	81	80	85	79	76	78	78	86	74.7
	Minimum	45	58	55	56	55	54	53	49	53	57	62	62	46	41	49	48	52	52	57	59	55	67	67	63	62	59	59	60	58	60	61	55.9
Clinton	Maximum	71	78	79	79	67	67	73	75	77	78	78	75	62	64	61	58	64	81	75	80	82	87	82	82	84	87	81	80	81	79	87	75.9
	Minimum	45	56	56	55	55	55	54	45	48	55	62	53	47	40	49	49	52	50	55	57	53	66	66	64	64	57	61	59	56	60	59	54.9
Harrisonville §§	Maximum	61	70	69	74	67	65	71	75	76	76	65	79	60	60	51	55	63	81	71	74	79	73	71	81	80	86	71	75	79	78	86	71.7
	Minimum	44	41	52	52	50	54	49	47	51	56	60	61	45	39	42	42	50	52	55	56	52	53	66	63	61	60	61	55	55	58	61	53.3
Lamar §§	Maximum	76	82	78	84	75	66	74	76	76	80	79	83	74	63	56	58	67	81	77	71	82	86	71	81	83	86	77	79	78	78	88	76.3
	Minimum	47	60	57	57	57	59	54	49	51	58	61	61	48	42	43	47	52	51	55	59	57	60	67	62	62	61	62	58	58	58	62	56.0
Lamonte	Maximum	71	70	70	79	65	64	72	78	75	74	79	78	58	60	57	59	61	89	73	72	80	87	78	81	81	83	75	71	77	76	85	73.2
	Minimum	45	55	56	54	52	54	53	46	56	54	52	52	45	39	47	47	53	52	51	52	48	67	65	65	65	58	62	58	55	59	61	54.2
Marshall	Maximum	65	68	72	74	68	65	71	77	78	78	78	75	62	62	58	57	63	77	77	73	79	81	....	83	82	84	78	73	77	78	85	a70.9
	Minimum	40	54	46	53	52	50	53	45	49	56	55	57	44	37	46	46	52	44	45	51	50	64	....	65	68	57	61	56	55	50	60	a50.5
Warsaw	Maximum	71	75	73	81	74	64	71	75	79	76	80	84	68	62	58	58	63	80	78	73	82	87	80	82	82	85	74	76	79	74	84	75.1
	Minimum	43	57	57	56	56	57	55	43	43	55	64	65	48	40	50	49	54	45	54	58	56	68	68	65	64	55	61	57	57	61	59	55.5
Northwest Plateau.																																	
Chillicothe §§	Maximum	68	64	68	65	71	64	69	75	82	82	82	63	62	60	58	59	61	83	75	70	81	89	72	81	82	88	70	69	80	83	84	72.9
	Minimum	40	51	43	47	45	50	51	42	5	59	59	58	45	39	46	48	48	49	48	52	46	63	60	60	60	59	57	55	58	57	61	51.8
Grant City	Maximum	65	61	64	64	68	69	65	77	78	79	73	68	69	68	56	57	65	83	80	75	79	86	79	76	80	79	71	68	77	80	84	72 4
	Minimum	40	40	43	47	45	47	55	49	4	57	59	55	39	40	45	48	48	49	52	52	45	66	57	61	62	59	48	55	55	57	59	51.2
Kansas City	Maximum	66	68	69	65	66	61	68	73	76	77	75	70	56	57	54	54	63	82	71	71	79	86	71	78	80	84	66	66	77	79	88	70.9
	Minimum	46	54	49	52	52	54	52	52	59	50	64	49	43	44	48	47	50	55	58	60	56	69	62	62	66	64	56	56	57	61	64	55.5
Kidder §§	Maximum	65	62	65	63	68	62	65	74	76	75	74	60	57	58	56	59	61	82	71	68	78	84	69	75	79	81	65	65	76	79	80	69.1
	Minimum	40	42	44	42	48	49	50	47	50	57	57	56	44	38	40	46	47	50	53	54	50	52	61	58	60	58	59	55	56	58	60	51.0
Lexington §§	Maximum	69	70	68	73	68	66	70	77	80	77	75	73	60	62	57	55	63	80	74	72	80	86	72	80	82	85	71	71	78	80	84	72.8
	Minimum	43	54	50	52	50	53	53	46	50	56	62	63	45	40	47	48	51	53	53	55	50	69	64	64	64	60	60	55	57	58	61	54.4
Maryville §§	Maximum	64	60	65	62	69	66	65	75	77	78	77	61	58	58	55	49	61	84	76	66	89	85	72	75	81	78	65	70	78	82	83	70.3
	Minimum	38	40	42	42	43	43	44	47	46	55	55	51	42	39	41	45	47	47	49	49	44	47	55	58	60	58	56	54	53	57	58	48.5
Oregon	Maximum	67	65	66	67	69	64	65	73	77	78	76	76	59	59	58	51	64	84	76	70	78	86	78	76	83	83	53	62	78	83	83	71.1
	Minimum	38	47	43	46	44	49	48	43	60	56	59	47	41	41	44	45	46	49	51	51	41	64	51	60	59	53	51	53	53	55	59	55.3
St. Joseph	Maximum	68	68	68	68	71	60	67	76	77	79	76	69	59	59	58	52	61	85	74	71	80	86	69	75	83	82	65	69	80	84	84	71.8
	Minimum	44	52	48	52	50	53	53	48	50	61	64	47	45	45	48	48	50	56	54	57	50	65	60	61	63	62	59	56	59	59	61	54.2
Trenton	Maximum	67	64	66	69	72	67	69	73	77	78	77	70	58	59	58	56	64	78	76	72	77	86	78	77	78	83	76	71	77	80	84	72.2
	Minimum	48	50	47	50	48	49	52	49	51	58	60	52	45	40	45	50	52	50	52	54	58	65	61	62	63	60	63	58	59	60	62	54.0

a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

Total Precipitation, Inches, May, 1920.



Daily Evaporation (inches) and Wind Movement (miles) for May, 1920, at Columbia Mo.

Date.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mo.
Columbia*	Evaporation	.196	.239	.191	.159	.178	.118	.061	.166	.174	.208	.137	.144	.182	.101	.192	.104	.027	.046	.126	.112	.155	.204	.226	.037	.103	.251	.220	.165	.028	.107	.128	4.485
	Wind movement	60	63	78	89	78	52	45	32	20	17	31	23	68	44	49	39	10	13	21	27	27	22	25	7	16	23	20	33	18	22	13	1,085
University of Mo.†	Evaporation.....	.159	.275	.158	.328	.209	.095	.116	.192	.230	.208	.193	.201	.164	.204	.191	.002	**	.060	.181	.102	.249	.270	.099	.081	.266	.219	.239	.077	.079	.156	.163	5.166
	Wind movement	99	146	207	180	151	90	97	44	34	88	84	94	141	102	111	84	77	**	111	101	108	98	**	31	55	35	77	62	67	67	76	2,717

*Observations taken at 6.45 a.m. †Observations taken at 5.30 p.m. ** Included in next following measurement. Both stations are located on the University grounds; one on the West Campus and the other about one mile southeast on the Experiment Farm. To prevent confusion of records the former will be known as "Columbia" and the latter as "University of Missouri." The equipment is the same in both cases (see Annual Summary, 1918); but the Experiment Farm station has a freer exposure to sun and wind.

DAMAGING STORMS.

The only damage resulted from local hail and windstorms.

2d.—Brunswick and vicinity sustained some damage to small fruits, gardens and small plants.

3d.—At 1 a.m., in Jackson County, south of Kansas City, a damaging hailstorm covered an area about a mile wide and 12 to 15 miles long. On the Sni-a-bar Road three sheep were killed by hailstones. Near that point stones were found measuring nine inches in circumference. Near Swope Park greenhouses were damaged about $5,000, by damage both to glass and flowers. Windowpanes, roofs and most crops suffered throughout the path of the storm. The total damage is estimated at $9,000.

4th.—Lebanon reported heavy hail that damaged small plants.

12th.—Two storms. Northern Phelps and Crawford counties, from Newburg to Cuba, there was an excessive rain, attended by heavy hail about 1 p.m. to 2 p.m. Most of the damage was due to the excessive rain washing the fields. The hail, though heavy, was of small sized hailstones generally, that caused no material damage.

Eastern Jasper and western Barry counties about 12.45 p.m. to 1.30 p.m. This is the most destructive storm ever known in this section. The path ranged from one to three miles wide and about 18 miles long. It was preceded by a strong squall wind that wrecked silos, unroofed barns and houses, blew down public service wires and poles, etc. The bombardment of hail that followed was terrific, so it is stated. Roofs were broken through, plastering knocked from the ceilings beneath and the homes deluged with water. Trees were stripped of small twigs and leaves and the bark bruised and peeled away. Cattle were cut by the hailstones until they bled; sheep, small pigs and chickens were killed. The larger hailstones were like eggs and larger and were numerous. After two days of bright sunshine hail drifts were two feet deep along the central portion of the path of the storm.

Damage occurred as far south as Purdy, Barry County. The loss to crops was the most serious damage. Much of the section visited is devoted to strawberries and this valuable crop will be almost a total loss. The large peony fields near Sarcoxie were ruined. Wheat fields were reduced to stubs, cornfields were ruined and must be replanted. The total loss is estimated at $500,000, though some place this value on the crop loss alone. Avilla, Megulin, Reeds, Larussell and Sarcoxie are the towns in the devastated area. The duration of the hail was 20 to 30 minutes.

29th.—A local excessive rain attended by hail occurred in Polk County about 2 p.m. Many oat fields were ruined and are being plowed and planted to corn. One report placed $3,000 damage valuation; others gave no estimate.

OBSERVERS' REMARKS—MAY.

Brunswick—Hail and heavy thunder on the 2d.

Fayette—The great amount of precipitation and unusual absence of sunshine have caused all crops to be backward.

Fulton—Very unusual amount of rainfall.

Gorin—Wet and cool first half of month, but warmer and more favorable the last half.

Macon—All farm work backward on account of unfavorable weather. On the 30th and 31st wonderful progress was made and corn planting going good.

St. Catherine—Corn looks good and is a good stand. The month has been generally good for farm work in this immediate vicinity, but too much rain three or four miles from here.

Warrenton—Earthquake shock felt on the first at 9.18 a.m. A cool, cloudy month until the last few days. Vegetation beginning to grow fast.

Farmington—Excessive rains have retarded farming very much, but such crops as have been planted, as corn, potatoes, gardens, etc., are doing well.

Gano—The month as a whole has been unfavorable for most farm work. Corn not near all planted; oats and meadows good; fruit promising good.

Houston—We have had lots of rain this month and it was fine on meadows and oats. Corn is growing good, but it is in need of more sunshine and work.

Lebanon—Heavy hail on the 4th, doing much damage to small plants.

Lockwood—A very wet May; all farm work delayed. Wheat, oats, pastures, meadows and gardens are good, but need sunshine and warmer weather.

Amoret—All crops look good; most of the corn has been planted. Wheat has made fine growth. Apples, cherries and peaches very light.

Appleton City—Too much rain and not enough sunshine for farm work. Pastures good; oats fine; wheat fair; corn slow on account of being too wet.

Warsaw—The first half of the month was too wet and cold for best results, causing loss by cut worms and decay of seed. The month closed ideal, with most crops looking fine. Some corn not planted yet.

Avalon—Rather cold and wet. Corn planting late; meadows and pastures doing well.

Grant City—Past month unfavorable for farm work, but most of the corn is planted. Wheat, rye, oats and alfalfa are looking well; pastures extra good. Some corn up and worked over.

Kidder—The month has been rather cool, with too much cloudy weather for crops of any kind to make much progress.

Liberty—On the 19th a strong wind did slight damage to small buildings and trees.

51.05
NMS

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CLIMATOLOGICAL DATA

MISSOURI SECTION

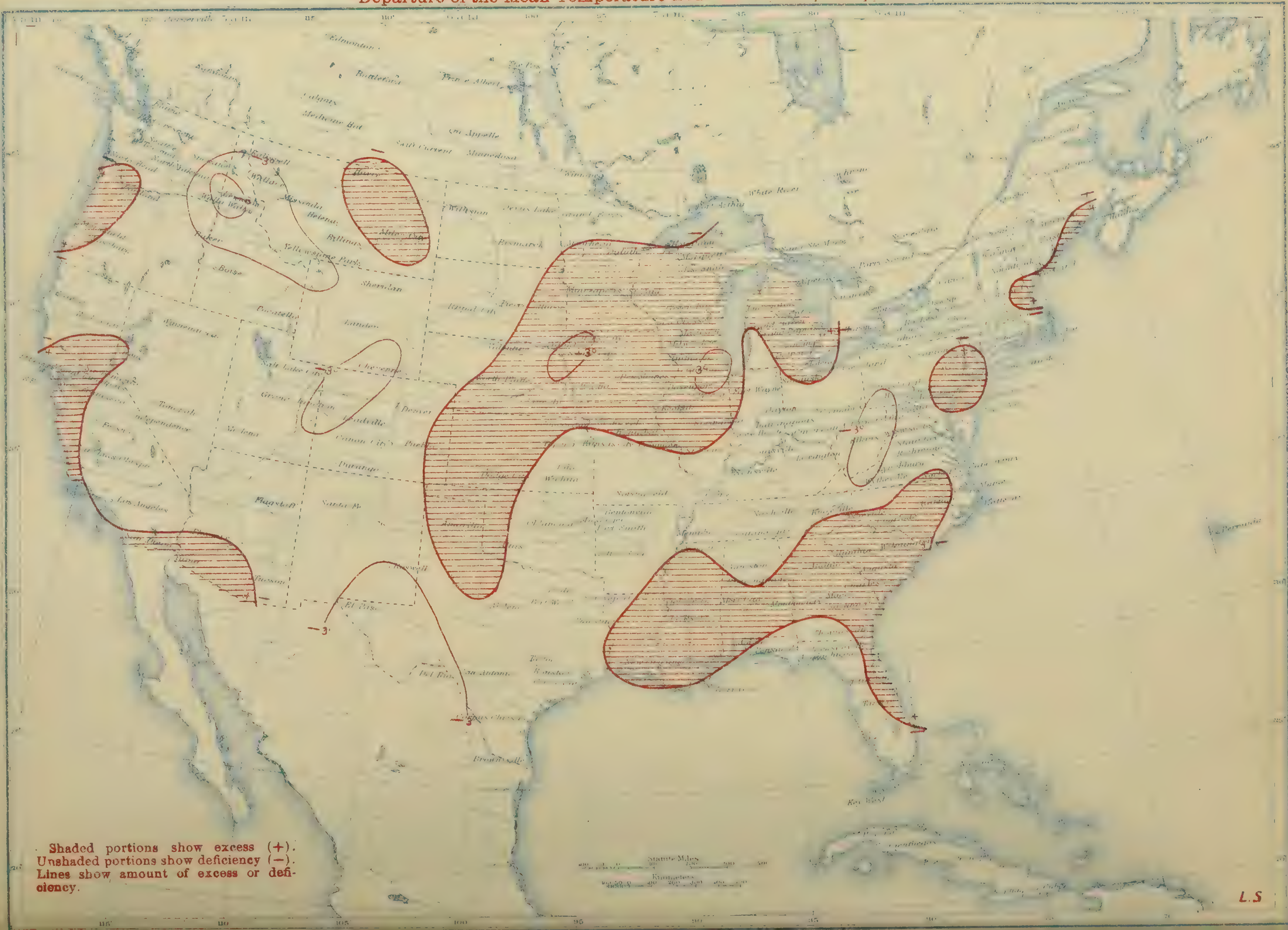
IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

JUNE, 1920

BY
GEORGE REEDER
METEOROLOGIST

COLUMBIA, MO.
WEATHER BUREAU OFFICE
AUGUST 4, 1920

Departure of the Mean Temperature from the Normal, June, 1920.



Shaded portions show excess (+).
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXIV. COLUMBIA, MO., JUNE, 1920. No. 6.

GENERAL SUMMARY.

June, 1920, in Missouri, was characterized by moderate temperatures, average sunshine, rather drouthy conditions, and fresh breezes. From the physiological side it was a pleasant summer month. It also was favorable for nearly all out-door occupations, especially farm work.

Wheat harvest began about the 20th and worked gradually northward to the Missouri River by the last of the month, but only locally as wheat was backward this year. The prevailing dry weather favorably affected the crop, heads filling well with a plump heavy grain. Pastures, until the heavy rains of the last decade, deteriorated somewhat, but a fine hay crop was cut and stacked.

Corn planting had been greatly delayed in May, but June weather was favorable for this work. Farmers continued to plant corn up to and later than the 15th. At the close of the month the crop was small as a rule, but clean and growing well, with timely rains to help it along.

Thunderstorms were quite numerous, but they were mostly moderate. A few damaging storms occurred, however. For report on storms see page 48.

TEMPERATURE.

The monthly mean temperature for the State as a whole, 64 stations reporting, was 72.7°, which approximates the normal for June. The weather was pleasant from the side of personal comfort, cool and warm periods of about equal length alternating. As a rule the first and third weeks were cool, and the second and last weeks were warm. The warmest days, when the maximum exceeded 95°, were the 13th, 14th, and 16th, and 27th, and 28th. The 100 degree value was reached at two stations along the southern border, on the 14th. The southern half of the State averaged about 1.5° cooler than the northern half.

PRECIPITATION.

The average precipitation for the State, 77 stations reporting, was 2.35 inches. The departure from the normal for 71 stations having 10 or more years' record was minus 2.16 inches. Precipitation was deficient in all sections, but good drouth breaking rains fell on the 21st-22d, and 29th-30th over all parts of the State, except a few eastern counties from about Warren and St. Charles south to Bollinger and Scott. During the first 20 days showers were of a light and local character, and the persistence of the drouth began to cause some apprehension. With such marked rainfall deficiency only cool weather prevented crop deterioration in most of the State.

WIND.

The prevailing winds were from the south. The average wind movement was 6,420 miles, 8.8 per hour, or about 9 per cent above normal. There were a few local wind storms.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, based upon the reports of 6 well selected stations having sunshine recorders, was 335, or about 75 per cent of the possible and about 5 per cent greater than normal.

MISCELLANEOUS PHENOMENA.

Hail— 2d, 7th, 8th, 16th, 21st, 22d, and 29th.

Halos, Solar— 1st, 3d, 7th, 8th, 9th, 19th, and 25th.

Lunar— 2d, 26th, and 29th.

Thunderstorms— 1st, 2d, 7th, 8th, 13th, 15th, 16th, 18th, 19th, 20th, 21st, 22d, 24th, and 29th.

ERRATA.

May, 1920: Kansas City, maximum temperature 23d should be 75°; and the monthly mean, 63.3°; the departure from normal, −1.2°. St. Catherine, highest temperature 83° on the 22d.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.99	76	......	346	77	5,132	7.1	26	sw.	16
Hannibal	29.99	74	......	......	......	6,169	8.6	34	nw.	1
Kansas City	29.97	71	52	350	78	8,381	11.6	52	ne.	8
St. Joseph	29.95	74	51	344	77	6,014	8.4	30	nw.	16
St. Louis	29.99	66	48	311	70	8,512	11.8	39	sw.	22
Springfield	30.01	74	57	282	64	6,568	9.1	32	sw.	16
Cairo, Ill	30.00	77	56	......	......	5,081	7.1	33	sw.	16
Keokuk, Iowa	30.00	70	52	375	83	5,063	7.0	26	w.	16

SUPPLEMENTAL TABLE OF DATA.

Stations.	Length of record, years.	Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
		Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Boonville	41	3.07	−2.46	2.40	0.0	7	15	9	6	sw.	C. Randecker.
C. Girardeau	11	3.22	−0.32	2.20	0.0	8	17	4	9	s.	D. L. Albert.
Glencoe	1	....	....	....	0.0	..	..	..	..	......	L. M. Beard.
Hermann	44	0.80	−3.79	0.30	0.0	4	17	0	13	e.	J. G. Rebsamen.
New Madrid	24	2.65	−1.43	1.14	0.0	6	20	1	9	s.	Miss Josie Smith.
Osceola	18	1.99	−2.67	0.88	0.0	3	21	0	9	......	John T. Fields.
Pacific	1	0.91	....	0.46	0.0	4	21	3	6	w.	Mark Waters.
Steelville	16	1.30	−2.93	0.61	0.0	5	23	0	7	sw.	A. Kreamelmeyer.
Tuscumbia	1	1.06	....	0.68	0.0	4	20	3	7	sw.	C. B. Wright.
Union	1	1.09	....	0.60	0.0	3	22	1	7	sw.	J. Wm. Keller.
Valley Park	1	1.41	....	0.78	0.0	4	20	5	5	......	T. W. McNeese.
Waverly	3	3.47	....	1.09	0.0	7	16	5	9	sw.	F. N. Cauthorn.

COMPARATIVE DATA FOR JUNE.

Year.	Temperature.				Precipitation.				Number of Days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	72.6	−0.5	103	37	6.20	+1.26	......	0	7	.....	.....	.....
1889	70.7	−2.4	100	38	4.66	−0.28	......	0	6	.....	.....	.....
1890	77.2	+4.1	105	50	2.59	−2.35	......	0	6	.....	.....	.....
1891	73.3	+0.2	103	46	6.91	+2.00	......	0	13	.....	.....	.....
1892	74.5	+1.4	100	38	3.18	−1.76	4.25	0	7	15	9	6
1893	72.6	−0.5	98	42	4.61	−0.31	3.60	0	9	12	12	6
1894	74.5	+1.4	105	30	3.92	−1.02	3.48	0	7	16	11	3
1895	73.2	+0.1	100	42	5.77	+0.83	3.85	0	10	12	11	7
1896	72.5	−0.6	101	45	8.32	+3.38	5.60	0	9	12	11	7
1897	73.6	+0.5	102	38	6.18	+1.24	6.40	0	12	9	14	7
1898	75.3	+2.2	100	42	5.88	+0.94	8.15	0	9	13	12	5
1899	74.3	+1.2	101	42	3.87	−1.07	4.48	0	9	15	10	5
1900	73.3	+0.2	103	44	4.79	−0.15	5.06	0	10	12	12	6
1901	77.9	+4.8	110	40	2.13	−2.81	2.99	0	6	18	10	2
1902	70.9	−2.2	100	37	6.57	+1.63	6.08	0	12	11	10	9
1903	67.3	−4.2	95	36	3.25	−1.69	4.90	0	9	15	9	6
1904	70.5	−2.6	93	45	6.42	+1.58	5.41	0	11	12	12	6
1905	75.2	+2.1	103	42	3.09	−1.85	4.80	0	7	15	10	5
1906	72.7	−0.4	101	40	4.95	+0.01	4.07	0	10	15	9	6
1907	71.2	−1.9	97	40	5.84	+0.90	3.90	0	11	14	10	6
1908	72.3	−0.8	98	43	6.30	+1.36	5.30	0	11	13	10	7
1909	73.9	+0.8	98	49	5.21	+0.27	4.12	0	11	11	13	6
1910	70.4	−2.7	99	38	3.92	−1.02	3.70	0	8	16	7	7
1911	78.9	+5.8	112	43	1.78	−3.16	2.07	0	6	18	8	4
1912	69.5	−3.6	100	42	4.78	−0.16	5.60	0	9	14	8	8
1913	75.4	+2.6	107	33	2.57	−2.22	3.05	0	6	18	8	4
1914	79.3	+6.2	106	43	2.37	−2.29	3.50	0	5	18	7	5
1915	70.8	−2.5	98	38	6.51	+1.87	4.86	0	12	11	10	9
1916	70.0	−3.2	100	42	6.99	+1.17	6.75	0	10	14	9	7
1917	71.0	−2.3	103	35	3.78	−0.59	4.19	0	8	19	7	4
1918	77.2	+3.9	110	48	3.15	−1.36	4.28	0	7	17	8	5
1919	75.0	+1.9	104	44	5.59	+1.11	4.21	0	11	14	10	6
1920	72.7	−0.5	104	41	2.35	−2.16	3.74	0	6	18	7	5

Climatological data for June, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	39	73.8	+1.0	97	27†	51	3†	33	2.77	−2.72	1.30	0	7	20	0	10	s.	O. K. Benecke.
Clifton Hill	Randolph	731	21	74.0	+1.7	96	15†	51	5	32	1.88	−3.68	1.33	0	5	19	9	2	......	L. S. Harlan.
Columbia	Boone	784	31	72.8	−1.7	94	28	53	6	30	1.49	−2.89	0.86	0	7	14	10	6	s	U. S. Weather Bureau.
Fayette	Howard	725	41	72.8	−0.3	94	28	50	6	33	2.51	−2.18	2.17	0	4	13	14	3	......	Prof. D. R. Briggs.
Fulton	Callaway	818	33	73.1	−0.2	95	27†	48	6	35	1.09	−3.62	0.41	0	7	13	16	1	sw.	Westminster College.
Gorin	Scotland	700	32	......	......	......	......	......	......	....	4.96	+1.20	1.88	0	7	10	10	10	sw.	J. W. Pulliam.
Hannibal	Marion	534	37	72.8	−0.4	94	28	50	6	29	2.21	−1.31	0.82	0	7	14	13	3	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	37	73.2	−0.8	95	27†	51	6	31	1.45	−2.59	0.97	0	4	23	4	3	s.	Miss Emma Swift.
Kirksville	Adair	969	38	71.2	−0.7	92	28	48	18	25	3.20	−1.19	1.34	0	8	24	5	1	s.	Prof. Mark Burrows.
Louisiana	Pike	469	39	72.8	+1.1	94	15	47	6	33	1.14	−2.91	0.39	0	8	19	8	3	w.	J. T. Farrell.
Macon	Macon	875	26	73.6	+1.2	97	27†	51	3†	33	1.92	−2.83	0.96	0	8	21	7	2	se.	W. C. Brown.
Mexico	Audrain	797	41	73.0	−0.6	97	28	47	18	32	1.53	−3.41	1.02	0	5	24	1	5	sw.	Mrs. Abbie Snoddy.
Oakfield	Franklin	793	38	......	......	......	......	......	......	....	......	......	......	......	....	....	....	....	......	E. E. Steines.
Palmyra††	Marion	652	20	73.4	−1.0	96	28	50	18	32	1.82	−2.87	0.54	0	7	15	8	7	sw.	W. B. Markell.
St. Catherine	Linn	850	9	70.9	......	93	27	48	5	27	2.57	......	0.88	0	11	15	12	3	sw.	L. D. Baker.
St. Charles	St. Charles	456	41	74.8	+0.8	96	28	52	5†	29	1.49	−2.67	0.69	0	5	16	6	8	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	83	75.2	+0.1	94	16	57	18	23	1.53	−2.94	0.70	0	6	13	14	3	sw.	U. S. Weather Bureau.
St. Louis (2)	....do.	578	8	74.7	+0.1	95	15	55	5	25	1.79	−2.25	0.69	0	7	18	11	1	w.	St. Louis University.
Shelbina	Shelby	779	27	......	......	......	......	......	......	....	1.25	−3.84	0.70	0	3	....	....	....	...	S. G. Parsons.
Steffenville	Lewis	650	26	74.5	+1.7	98	27	49	6†	35	3.18	−0.99	1.25	0	7	18	10	2	w.	Frank Hall.
Unionville	Putnam	1,072	27	71.3	−0.7	94	27†	45	19	33	5.40	+0.98	2.15	0	6	9	12	9	s.	Geo. W. Davis.
Warrenton	Warren	865	38	73.2	−0.2	96	28	52	18	30	1.36	−2.99	0.56	0	5	11	11	8	sw.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	48	73.4	+1.0	94	28	55	6	24	2.99	−1.36	1.59	0	6	12	12	6	s.	U. S. Weather Bureau.
Section means and	extremes	......	....	73.2	+0.1	98	27	45	19	35	2.25	−2.24	2.17	0	6	16	9	5	sw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	29	79.2	+1.7	104	14†	58	8†	36	4.93	+0.99	1.80	0	7	21	3	6	s.	H. E. Averill.
Doniphan	Ripley	344	16	73.8	−0.9	95	16	53	5	37	2.63	−1.69	1.60	0	5	21	2	7	s.	W. W. Martin.
Jackson	Cape Girardeau	458	30	73.2	−0.9	97	13	50	23	44	2.32	−1.88	1.27	0	8	11	10	9	s.	John J. Putz.
Marble Hill	Bollinger	420	26	....	......	......	......	......	....	....	......	......	......	....	....	....	....	....	......	F. W. Wells.
Patton (near)	Bollinger	500	10	......	......	......	......	......	......	....	0.60	−3.31	0.45	0	2	....	....	....	......	George F. Ellis.
Poplar Bluff	Butler	329	16	74.2	−1.3	97	13	51	7	35	2.94	−2.15	1.40	0	5	24	0	6	...	Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill	359	45	74.5	−0.7	94	14	56	18	25	2.10	−2.21	0.74	0	5	13	9	8	sw.	U. S. Weather Bureau.
Section means and	extremes	......	....	75.0	−0.4	104	14†	50	23	44	2.59	−1.71	1.80	0	5	18	5	7	s.	
Ozark Plateau.																				
Arcadia	Iron	925	42	71.0	−1.0	94	14	48	5†	36	0.68	−4.03	0.30	0	4	15	10	5	sw.	Arcadia College.
Aurora	Lawrence	1,370	....	72.4^{c}	−1.4	95	14†	46	6	38	1.70	−3.28	0.87	0	3	17^{b}	5^{b}	6^{b}	s.	C. D. Sprague.
Birchtree	Shannon	1,078	26	71.2^{a}	−1.5	92	13†	51	23	32	0.93	−3.68	0.46	0	4	21	4	5	s.	V. H. Kirkendall.
Bolivar	Polk	1,071	33	72.3	−0.4	95	27†	47	6	35	1.62	−3.48	1.50	0	4	19	4	7	sw.	K. H. Brown.
Cassville	Barry	1,475	21	......	......	......	......	......	......	....	......	......	......	......	....	....	....	....	......	R. H. Wallen.
Dean	McDonald	1,000	21	70.8^{a}	−2.2	91	13†	46	6	36	2.00	−3.37	0.89	0	6	22^{a}	4^{a}	3^{a}	e.	H. E Dean.
Eldon	Miller	934	21	72.0	−1.4	96	27	46	6	38	1.71	−2.76	1.30	0	3	10	15	5	s.	E. H. Shepherd.
Farmington	St Francois	918	23	73.0	+1.0	96	14	52	6	32	0.57	−4.24	0.30	0	4	16	12	2	ne.	Robert Forsyth.
Gano	Dent	1,250	18	70.7	−2.2	94	13†	46	6	36	0.67	−3.65	0.33	0	4	20	9	1	s.	A. C. Leach.
Goodland	Iron	1,000	27	69.2	−2.9	93	14†	44	5	39	0.88	−3.27	0.52	0	6	19	5	6	s.	F. M. Adams.
Hollister	Taney	735	17	72.8	−3.0	100	16	45	6	41	2.00	−1.87	1.10	0	3	23	0	7	sw.	W. P. Chapmann.
Houston	Texas	1,280	27	71.7	−0.5	93	16	48	6	32	1.64	−3.10	0.95	0	3	17	8	5	se.	R. F. Harmon.
Koshkonong	Oregon	958	19	......	......	......	......	......	......	....	......	......	......	......	....	....	....	....	......	R. M. Hitt.
Lebanon	Laclede	1,265	32	69.8	−3.5	91	16†	48	6	35	1.46	−3.63	0.99	0	5	23	4	3	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	24	71.2	−3.0	93	27	48	25	37	2.62	−2.31	2.62	0	1	19	6	5	sw.	C. S. Crow.
Mountain Grove	Wright	1,490	23	......	......	......	......	......	......	....	......	......	......	......	....	....	....	....	......	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	72.4	−1.5	93	16†	46	6	36	3.32	−2.07	1.18	0	7	17	10	3	sw.	U S. Fisheries Sta.
Rolla	Phelps	1,139	36	72.2	−0.5	93	26†	50	6	37	1.84	−2.28	0.56	0	5	16	12	2	sw.	Prof. Elmo G. Harris.
Springfield	Greene	1,350	42	71.8	−0.5	90	16	55	5	24	1.43	−3.76	1.08	0	6	16	9	5	s	U. S. Weather Bureau.
Section means and	extremes	......	....	71.6	−1.5	100	16	44	5	41	1.57	−3.17	2.62	0	4	18	7	5	s	
Southwest Plain.																				
Amoret	Bates	831	13	72.1	−1.5	94	27	46	5	36	3.51	−0.49	1.44	0	5	23	5	2	s	Darby Fruit Farm.
Appleton City	St. Clair	853	28	73.2	−1.7	94	27	51	5	31	2.09	−2.95	1.33	0	6	17	12	1	sw.	W. G. Bigelow.
Clinton	Henry	765	33	73.8	+0.5	97	28	48	6	36	1.57	−3.16	0.52	0	4	16	9	5	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	912	44	72.2	−1.2	93	28	46	5	33	3.14	−1.39	1.26	0	6	16	4	10	se.	John H. Patterson.
Lamar	Barton	980	39	72.8	−1.6	94	26†	48	6	36	1.08	−3.93	0.94	0	3	18	9	3	s.	Joe W. Springer.
Lamonte	Pettis	863	33	72.6^{c}	−1.8	95	27	46	5	38	2.60	−1.88	1.35	0	4	16^{c}	9^{c}	2^{c}	sw.	J. Ed. Hall.
Marshall	Saline	779	31	72.7^{a}	−0.1	96	27	50	5	34	1.57	−2.81	1.15	0	5	11^{a}	14^{a}	4^{a}	sw.	Dr. W. H. Black.
Nevada	Vernon	860	28	72.7	−0.9	92	26†	50	5	30	1.36	−3.68	0.62	0	6	21	4	5	sw.	George A. Kaupp.
Warrensburg	Johnson	883	42	......	......	...	......	......	......	....	......	......	......	......	....	....	....	....	...	Geo. H. Collins.
Warsaw	Benton	715	25	72.6	−1.1	96	28	46	6	37	2.73	−2.45	0.92	0	6	15	14	1	e.	J. R. Smith, M. D.
Section means and	extremes	......	....	72.7	−1.0	97	28	46	5†	38	2.18	−2.53	1.44	0	5	17	9	4	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	30	73.3	+0.2	94	27†	50	5	29	4.28	−0.28	2.10	0	4	19	8	3	sw.	F. G. Ashbaugh.
Bethany	Harrison	916	28	73.8^{b}	+1.9	96	28	44	5	35	5.10	+0.86	3.05	0	5	11	11	8	sw.	M. H. Moulton.
Chillicothe††	Livingston	768	15	73.2	−0.5	97	27†	46	5	32	3.43	−2.48	1.73	0	7	23	0	7	sw.	R. L. Isherwood.
Conception	Nodaway	982	35	72.6	+1.5	95	13†	47	5	35	3.99	−0.46	1.63	0	6	15	11	4	sw.	Fr. Adelhelm Hess.
Edgerton	Platte	856	....	72.8	......	95	13†	41	5	40	2.11	......	0.41	0	12	22	3	5	s.	H. Killingsworth.
Gallatin	Daviess	......	....	......	......	......	......	......	......	....	......	......	......	......	....	....	....	....	......	
Grant City	Worth	1,134	29	71.6	+0.7	98	13	46	5	30	2.47	−1.91	1.00	0	4	18	8	4	sw.	W. H. Campbell.
Kansas City	Jackson	963	31	73.2	+0.2	93	27	54	5	21	6.63	+1.97	3.53	0	9	15	11	4	s.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	33	70.6	−1.5	92	27	47	5†	31	3.82	−0.57	1.75	0	8	17	9	4	sw.	J. F. Sharp.
Lexington	Lafayette	688	38	73.2	+0.5	95	27	50	5†	33	2.75	−2.09	1.20	0	5	21	1	8	s.	J. W. Keithley.
Liberty	Clay	864	30	73.0	−0.7	95	28	49	5	33	3.80	−1.11	1.35	0	10	15	14	1	s.	James H. Harris.
Maryville	Nodaway	1,036	30	70.6	+1.7	94	13	44	5	34	1.81	−2.73	0.61	0	8	19	1	10	s.	J. R. Brink.
Oregon	Holt	1,048	64	71.1	−1.2	93	13	49	22	33	3.89	−0.85	2.50	0	8	14	9	7	s.	Tom Curry.
St. Joseph	Buchanan	967	46	73.4	−0.5	94	13	50	5	29	6.51	+1.83	3.74	0	7	17	9	4	s.	U. S. Weather Bureau.
Tarkio	Atchison	976	27	71.5	−1.3	93	12	47	5	34	3.39	−1.57	1.17	0	7	21	2	7	sw.	John F. Frazier.
Trenton	Grundy	822	25	72.5	+0.1	93	27	53	5†	27	2.90	−1.09	1.29	0	6	21	6	3	s.	W. H. Estes.
Section means and	extremes	......	....	72.5	+0.2	98	13	44	5	40	3.82	−0.68	3.74	0	7	18	7	5	s.	
State means and	extremes	......	....	72.7	−0.5	104	14†	41	5	44	2.35	−2.16	3.74	0	6	18	7	5	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Oakfield, Pacific, R. F. D No. 1; of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily precipitation for June, 1920.

Stations.	Watersheds.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville ‖	Missouri		.14		T.			.17	.24	.03											.03		.06								2.40		3.07
Brunswick ‖	Grand		.51						1.30	.27							.20						.04	.10							.35		2.77
Clifton Hill	Chariton							.05	.36													.10	.04	1.33									1.88
Columbia***	Missouri	.03			T.			.09	.01												.02	.48								.85	.01		1.49
Fayette	....do	T.						.15	.17											T.	.02	T.								.55	1.62		2.51
Fulton	....do		.05					.05	.03													.41	.02							.17	.36		1.09
Glencoe ‖	Meramee																																
Gorin	Mississippi		1.88			.10		.70	.76													.58	.24							.70			4.96
Hannibal***	....do	.65			T.			.48	T.								.01				.03	.13	.09							.82			2.21
Hermann ‖	Missouri		.24																			.04	.22								.30		0.80
Jefferson City ‖	....do		.12							.05													.31								.97		1.45
Kirksville	Mississippi	.03	1.00		.06				.19												.16	.16	.26							1.34			3.20
Louisiana	....do	.03	.20					.05										.01			T.	.06	.15							.25	.39		1.14
Macon ‖	Chariton		.16					.04	.18								.29				T.	.04	.16	.09							.96		1.92
Mexico ‖	Mississippi		.03						.03														.33	.12						1.02			1.53
Oakfield	Meramee																																
Pacific ‖	....do		.46																				.31	.02							.12		0.91
Palmyra ‖	Mississippi		.28					.54	.10	.08								T.				T.	.22	.09							.51		1.82
St. Catherine	Grand	.30	.27		.04			.10	.88								.04	.01			.06	.20	.02			T.				.65			2.57
St. Charles	Missouri	.21	.69									T.										.21	.25								.13		1.49
St. Louis (1)***	Mississippi	.20	.38	T.	.01																T.	.64	.14							T.	.16		1.53
St. Louis (2)	....do	.18	.53		.04																T.	.69	.03						.15	T.	.17		1.79
Shelbina	....do							.15															.40							.70			1.25
Steffenville	....do	.22	.03					.33	1.25												T.	.25	.50							.60			3.18
Union ‖	Meramee		.60																				.22								.27		1.09
Unionville	Chariton	2.15		T.				.50	.10							T.	T.				T.	.45	.10						T.	2.10			5.40
Valley Park ‖	Meramee		.78	"																			.20	.16							.27		1.41
Warrenton ‖	Mississippi	T.	.55																			.02	.14	.09							.56		1.36
Keokuk, Iowa***	....do	1.54	.05			T.		.24	T.							T.	T.	T.				.02	.65							.49			2.99
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi																																3.22
Caruthersville	....do		1.80	.70	.05													T.	T.	.82	T.	.11	.20								1.25		4.93
Doniphan	Black			1.60															.03	.45		.25	.30										2.63
Jackson	Mississippi		.03	1.27	.12	.12									.38					.18		.16	.06										2.32
Marble Hill	....do																																
New Madrid ‖	....do																																2.65
Patton (near)	....do		.45																		.15												0.60
Poplar Bluff ‖	Black		1.40	.65													T.	T.	T.	.60		.09	.20										2.94
Cairo, Ill.***	Mississippi		.62	.15	T.												T.	T.	T.	.45		.74	T.								.14		2.10
Ozark Plateau.																																	
Arcadia ‖	St. Francis		.10	.06	.30													T.				T.	.22								T.		0.68
Aurora	White																	.87	.34												.49		1.70
Birchtree	Black		.11	.11																		.46									.25		0.93
Bolivar	Osage							.05	.02													.05									1.50		1.62
Cassville	White																																
Dean	Neosho																.27	.04	.89	T.	.24		.08							.48			2.00
Eldon	Osage																					.33								08	1.30		1.71
Farmington	St. Francis	T.	.04	.30																		.14	T.								.09		0.57
Gano	Meramee		.17																			.08	.09								.33		0.67
Goodland	Black	.52		.10	.05												.02					.11	.08										0.88
Hollister	White	.50															1.10		.40														2.00
Houston	Gasconade		.95	T.													T.	.34	T.			T.									.35		1.64
Koshkonong	Black																																
Lebanon ‖	Osage	.26	.04	T.	T.																.05		T.	12							.99		1.46
Lockwood	....do								T.														T.								2.62		2.62
Mountain Grove ‖	White																																
Neosho	Neosho		.15														.03	1.18	.47		.58		.04								.87		3.32
Rolla ‖	Meramee	.35	.34	.20	.39																		T.								.56		1.84
Springfield***	White													T.			.05		T.	T.	.08	.21	.01							.25	.83		1.43
Steelville ‖	Meramee		.61	.01																		.05	.07								.56		1.30
Tuscumbia ‖	Osage	.18	.03	T.						T.											T.	T.	.17	T.							.68		1.05
Southwest Plain.																																	
Amoret	Osage		.94					T.	1.44														T.			.09				.14	.90		3.51
Appleton City	....do	.02		T.	T.			.16	.39									T.			.07	.12	T.			T.					1.33		2.09
Clinton	....do							.32	.52																					.45	.28		1.57
Harrisonville ‖	....do		.61					.18	.88	.19							.02														1.24		3.14
Lamar ‖	Neosho		.07																		.07										.94		1.08
Lamonte	Missouri		.20					.60	.45									T.		T.	T.								1.35				2.60
Marshall	....do		.09					.23	.01									T.								T.				1.15	.09		1.57
Nevada	Osage		.05						.38									.21			.02		.08								.62		1.36
Osceola ‖	....do								.71	.40																					.88		1.99
Warrensburg	Missouri																																
Warsaw	Osage		.02					.48	.38													.05								.92	.88		2.73
Waverly ‖	Missouri	.34	1.08					1.09	.33	.07											T.	T.	.16								.40		3.47
Northwest Plateau.																																	
Avalon	Grand	1.10						.90														.18								2.10			4.28
Bethany	....do	.20	.70	T.	T.			T.	.95								T.				T.	T.				.20				3.05			5.10
Chillicothe ‖	....do		.35						.64								.32						.08				.09			.17	1.78		3.43
Conception	Missouri	.21	.16					.09	1.63												T.	T.				.45				1.45			3.99
Edgerton	Grand	.26	.29		.20			.36	.37								.05			.02	.01	.02	.02			.41				.10			2.11
Grant City	....do	.53	T.	T.				1.00									T.	T.			T.	.19	T.			.75							2.47
Kansas City***	Missouri	.30	T.	T.	.03			.56	3.14							.40		T.		.01	T.	.01				.52				1.66			6.63
Kidder ‖	Grand		1.38		.02			.25	1.75	.10												.06					.23				.03		3.82
Lexington ‖	Missouri		1.20		T.			T.	1.00	.14																	.04				.37		2.75
Liberty	....do	.55	.25		.08			.49	.50							T.	.21	T.			T.	.01	T.			.28				1.35	.08		3.80
Maryville ‖	....do	.06	.44					.14	.18								T.				T	T.	.05			.05	.61			.28			1.81
Oregon	....do	.40		.02				.44	T.					.01		.07				T.		03				.42				2.50			3.89
St. Joseph***	....do	1.13	.01	.02				.38	3.74							T.		T.		T.	T	T.	T.			.41				.82			6.51
Tarkio	....do	.29						1.07	.47							.32						.03				1.17				.04			3.39
Trenton	Grand	.25		T.				.03	1.29													.21	.11							1.01			2.90

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station: precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily temperatures for June, 1920.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	90	76	77	78	78	84	87	85	90	91	91	93	95	95	95	85	78	76	78	66	80	81	88	90	87	96	97	97	86	91	....	86.0
	Minimum	62	63	51	52	51	51	65	63	64	64	65	68	69	70	72	67	60	56	56	57	56	55	56	59	60	62	67	71	72	66	....	61.7
Columbia	Maximum	87	73	73	75	73	80	79	80	89	90	90	91	93	92	92	90	73	74	75	73	75	77	83	86	85	91	93	94	90	86	....	83.4
	Minimum	65	60	56	58	54	53	61	65	64	64	69	68	69	71	70	66	61	55	55	58	51	55	53	63	62	66	66	70	66	65	....	62.1
Hannibal	Maximum	87	72	72	74	72	79	82	82	89	90	91	92	92	94	91	85	73	74	76	73	72	72	81	88	86	90	91	94	84	87	....	82.9
	Minimum	64	61	58	55	52	50	60	65	64	68	71	70	71	73	71	64	59	55	57	60	57	54	54	59	63	67	68	72	68	67	....	62.6
Jefferson City §§	Maximum	88	71	72	75	74	81	80	80	90	90	91	92	92	94	94	93	73	71	79	74	80	80	85	87	87	94	95	95	92	89	....	84.6
	Minimum	63	62	60	58	55	51	59	60	60	61	66	67	70	71	69	71	62	55	55	60	53	55	55	60	60	64	64	70	71	65	....	61.9
Kirksville	Maximum	85	75	71	73	72	77	82	83	85	87	88	89	91	91	90	86	72	72	75	70	74	76	79	85	84	90	91	92	82	85	....	81.7
	Minimum	66	58	51	52	49	53	61	62	64	67	70	66	71	72	71	68	56	48	50	55	52	53	54	60	62	65	68	70	66	65	....	60.8
Louisiana	Maximum	84	85	84	71	74	78	80	82	88	90	92	91	93	92	94	92	90	82	73	72	74	76	80	87	88	90	93	93	93	85	...	85.0
	Minimum	68	62	60	55	48	47	60	60	60	64	65	68	70	71	66	72	58	52	57	56	56	52	50	55	55	60	60	70	74	68	....	60.6
Macon §§	Maximum	88	76	79	79	79	85	87	85	90	93	93	94	96	95	95	81	80	78	81	69	77	79	87	92	89	95	97	97	85	92	....	86.4
	Minimum	66	66	51	54	51	52	61	62	63	63	70	62	69	71	70	64	56	52	51	56	53	53	54	59	62	64	66	70	71	65	....	60.7
Mexico §§	Maximum	89	75	74	75	74	82	82	81	92	92	93	94	95	96	95	78	77	78	68	69	78	78	85	89	88	94	95	97	94	91	....	84.9
	Minimum	67	63	53	56	54	48	62	62	64	65	68	68	70	72	70	70	50	47	52	52	53	55	53	59	62	66	64	69	72	65	....	61.0
Oakfield	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
St. Catharine	Maximum	83	74	70	71	73	77	80	81	83	85	85	87	88	88	88	82	72	71	75	72	74	76	80	85	83	90	93	86	83	85	....	80.8
	Minimum	67	55	50	59	48	52	63	61	63	69	67	65	67	70	69	67	57	51	52	56	50	52	53	70	63	67	66	69	67	65	....	61.0
St. Louis (1)	Maximum	80	77	68	74	76	80	82	86	90	90	92	92	93	94	94	94	74	74	76	77	76	74	83	85	87	90	91	90	92	88	....	84.0
	Minimum	67	66	62	58	59	59	62	66	70	73	73	74	75	75	76	71	60	57	60	61	59	58	60	67	71	69	70	74	73	70	....	66.5
Unionville	Maximum	84	72	72	75	76	78	84	86	87	88	90	91	93	92	90	83	84	74	78	66	75	78	79	87	84	92	94	94	86	88	....	83.3
	Minimum	60	56	50	53	47	53	60	62	65	66	68	65	70	71	70	62	55	47	45	55	52	50	52	55	60	67	65	68	66	65	....	59.3
Warrenton §§	Maximum	87	72	70	74	76	81	83	83	91	92	92	94	94	95	94	92	75	73	76	73	76	75	83	87	88	93	93	96	92	90	....	84.7
	Minimum	61	62	58	56	53	54	59	62	64	67	67	67	71	72	68	71	58	52	53	54	57	54	56	61	63	63	63	69	71	65	....	61.8
Southeast Lowlands.																																	
Caruthersville	Maximum	96	90	71	76	86	89	88	94	98	101	101	102	104	101	99	97	93	77	81	84	84	83	91	97	101	98	101	100	98	93	....	92.7
	Minimum	66	70	61	60	60	59	61	58	61	69	70	70	69	70	72	72	73	62	61	62	63	58	65	61	66	68	68	73	66	74	....	65.8
Doniphan	Maximum	88	88	72	76	80	86	87	88	89	91	91	92	94	94	93	95	82	79	78	79	80	78	85	87	91	90	93	91	92	91	....	86.7
	Minimum	62	68	62	62	53	61	60	62	59	60	64	60	59	62	65	67	67	58	55	56	60	55	61	55	51	59	59	65	61	73	....	60.8
Jackson	Maximum	88	87	81	79	79	85	85	87	92	91	94	95	97	95	95	94	91	74	77	79	80	80	84	89	91	91	92	94	91	92	....	87.6
	Minimum	63	67	60	59	52	52	53	54	59	60	62	62	53	56	63	69	66	55	58	57	56	55	50	54	57	61	57	64	61	71	..	58.9
Marble Hill	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
Poplar Bluff	Maximum	90	92	75	77	83	85	84	89	90	91	94	96	97	96	95	95	84	76	79	81	80	79	85	90	92	92	94	93	92	92	....	88.0
	Minimum	61	66	61	59	52	52	51	54	59	59	69	62	62	64	70	67	67	56	57	59	59	56	55	55	57	61	61	66	62	72	....	60.4
Ozark Plateau.																																	
Arcadia §§	Maximum	86	83	63	75	78	80	80	85	88	89	91	91	93	91	92	93	73	70	76	75	79	74	85	85	86	87	91	92	92	91	....	83.9
	Minimum	63	63	60	57	48	48	51	53	59	58	62	60	62	63	62	66	65	55	57	57	54	52	54	54	53	55	55	65	63	69	....	58.1
Aurora	Maximum	86	80	71	76	75	84	84	81	89	91	91	92	94	95	92	95	83	68	..	69	79	76	86	81	90	....	90	93	94	....	....	c84.6
	Minimum	62	60	61	55	50	46	60	59	60	60	59	73	64	65	76	71	63	59	....	50	58	53	51	54	61	....	65	63	65	....	....	c60.1
Birchtree	Maximum	81	82	70	74	76	78	78	83	85	89	....	89	92	92	90	92	85	72	75	75	80	72	83	84	86	88	90	90	90	86	....	a83.1
	Minimum	61	62	61	57	52	53	53	56	68	65	....	60	62	64	67	65	63	57	55	55	56	53	51	54	58	60	61	66	63	65	....	a59.4
Eldon	Maximum	84	87	71	76	81	80	81	81	91	91	90	92	95	93	94	92	91	72	77	72	78	79	84	90	92	90	96	95	96	92	....	86.2
	Minimum	56	54	54	54	50	46	57	58	59	69	63	65	64	65	62	65	69	52	48	48	51	52	52	52	54	64	59	64	70	62	....	57.9
Farmington	Maximum	87	79	64	71	77	80	82	89	93	92	92	95	95	96	94	93	85	72	76	75	72	73	83	86	89	93	93	93	92	89	....	85.1
	Minimum	62	64	60	58	53	52	59	57	63	64	64	67	68	69	69	69	63	55	56	59	53	53	57	58	58	63	61	67	65	65	....	61.0
Gano	Maximum	89	76	67	73	73	81	81	83	80	80	90	91	94	93	92	91	79	68	74	75	77	75	85	89	91	93	87	91	93	87	....	83.5
	Minimum	62	60	59	53	50	46	55	54	60	58	65	61	65	65	65	67	60	52	52	52	52	52	53	55	55	58	57	67	65	63	....	57.9
Hollister	Maximum	90	83	75	78	78	85	85	85	90	93	94	96	97	99	96	100	89	75	73	65	80	75	85	87	90	90	94	92	94	90	....	86.8
	Minimum	61	62	62	60	50	45	55	58	60	60	63	55	60	62	61	70	65	59	55	50	56	59	51	54	60	62	58	61	62	67	....	55.8
Koshkonong	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
Lebanon §§	Maximum	85	69	67	74	76	80	79	77	87	87	83	89	89	90	90	91	71	67	72	70	78	74	81	83	86	87	90	91	91	85	....	81.3
	Minimum	60	59	58	56	51	48	55	61	61	63	63	63	65	66	66	69	60	55	49	52	52	51	54	56	57	52	56	65	66	64	....	58.4
Mountain Grove	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
Neosho	Maximum	87	85	72	74	74	82	85	87	90	91	88	89	91	90	90	93	93	76	73	73	77	76	84	84	90	90	91	91	89	87	....	84.7
	Minimum	67	60	62	57	49	46	60	55	59	60	67	59	65	66	65	71	65	57	56	50	56	54	51	55	62	62	64	69	66	66	....	60.0
Rolla §§	Maximum	86	80	69	71	75	81	81	80	90	88	89	91	91	92	90	91	84	71	75	74	75	74	85	87	91	93	93	93	92	87	....	84.1
	Minimum	65	70	55	57	53	50	60	61	62	61	70	67	67	69	69	68	61	55	55	55	53	52	55	56	56	55	57	56	68	64	....	60.2
Springfield	Maximum	84	72	67	73	72	79	79	77	84	86	86	87	88	89	89	90	72	65	70	68	76	73	81	81	83	87	88	88	88	83	....	80.2
	Minimum	66	61	60	56	55	55	62	63	66	66	70	66	69	71	70	69	62	59	56	59	57	57	58	62	66	69	67	70	68	64	....	63.3
Southwest Plain.																																	
Amoret	Maximum	87	72	70	76	78	83	86	82	87	89	87	90	92	90	92	92	82	70	73	75	83	83	89	87	91	93	94	93	93	86	....	84.8
	Minimum	61	59	52	58	46	49	61	59	62	60	68	64	67	68	64	64	60	56	50	56	50	50	53	55	60	65	65	66	69	65	....	59.4
Appleton City	Maximum	86	75	69	76	76	82	82	79	87	89	87	89	90	90	92	90	88	71	73	74	79	78	86	87	87	92	94	92	92	88	....	81.0
	Minimum	66	63	57	60	51	54	62	65	64	63	68	65	69	70	73	68	62	57	53	57	52	53	55	58	65	70	68	70	62	66	....	62.5
Clinton	Maximum	88	76	74	78	78	84	84	81	89	91	89	90	93	89	92	92	85	75	76	74	83	84	87	88	89	95	96	97	94	89	....	86.1
	Minimum	67	63	55	59	53	48	62	64	65	62	65	64	67	69	68	67	62	57	53	59	53	51	55	57	60	66	64	70	69	66	....	61.5
Harrisonville §§	Maximum	81	74	71	74	76	83	84	81	86	87	87	90	91	90	91	91	71	73	73	74	80	84	88	85	85	91	93	83	86	87	....	83.0
	Minimum	63	60	52	56	46	54	64	61	61	64	67	65	67	69	71	69	61	57	54	58	52	52	55	60	64	68	67	68	69	65	....	61.4
Lamar §§	Maximum	88	81	72	77	77	84	87	79	90	91	89	92	93	91	92	92	73	70	73	73	82	79	87	87	91	94	94	93	93	88	....	85.1
	Minimum	65	61	60	58	51	48	61	62	62	61	61	62	66	67	68	69	63	60	51	55	53	50	51	55	63	66	65	67	67	65	....	60.5
Lamonte	Maximum	87	72	75	75	76	82	81	80	86	89	88	90	91	92	93	90	75	73	76	70	....	81	89	89	86	96	95	....	90	....	....	c83.7
	Minimum	68	61	49	60	46	47	62	69	66	64	69	67	70	72	71	71	60	56	49	58	....	55	51	54	66	68	67	....	61	....	....	c61.4
Marshall	Maximum	88	75	76	76	75	82	80	81	88	88	90	91	93	93	91	89	77	75	77	70	82	....	86	86	85	93	96	95	87	87	....	a84.6
	Minimum	63	61	51	59	50	53	60	68	62	62	68	66	68	63	70	70	60	53	52	58	51	....	52	57	57	65	63	67	71	65	....	a60.8
Warsaw	Maximum	88	82	70	76	75	83	81	79	87	90	90	92	93	93	93	93	86	72	75	74	83	83	87	86	87	93	95	96	95	88	....	85.4
	Minimum	66	64	60	56	51	46	61	60	62	59	67	62	64	65	64	70	60	55	48	60	55	47	52	51	56	61	60	69	68	66	....	59.7
Northwest Plateau.																																	
Chillicothe §§	Maximum	88	75	75	79	78	82	88	88	89	91	92	92	94	94	95	82	78	76	78	69	81	82	87	88	85	95	97	97	86	90	...	85.7
	Minimum	68	59	51	54	46	53	65	61	61	61	61	66	68	71	72	65	50	55	54	59	50	53	52	57	61	63	68	69	71	66	....	60.6
Grant City	Maximum	80	74	68	76	75	81	84	86	88	88	88	94	98	91	91	81	72	70	72	65	76	79	86	86	84	90	92	92	87	87	....	82.6
	Minimum	60	56	54	52	46	53	56	61	66	65	69	64	74	69	70	63	57	56	53	55	52	53	56	59	62	67	67	66	67	66	....	60.5
Kansas City	Maximum	88	70	70	75	75	82	84	83	85	88	88	89	92	90	91	86	66	70	71	71	79	80	81	86	86	92	93	97	87	85	....	82.5
	Minimum	64	61	55	57	54	58	63	61	68	69	72	70	74	74	68	64	59	58	56	59	57	57	61	66	64	70	71	73	67	69	....	61.0
Kidder §§	Maximum	79	68	70	72	72	78	82	82	84	85	86	88	90	88	88	88	70	71	74	65	77	78	84	83	80	91	92	91	87	86	....	81.1
	Minimum	60	59	52	53	47	47	54	60	64	62	66	65	65	71	71	77	58	53	52	63	54	53	54	56	59	63	67	68	70	63	...	60.2
Lexington §§	Maximum	80	72	74	75	75	83	84	82	87	88	88	90	92	91	92	87	70	74	75	72	82	81	86	86	84	91	95	91	86	88	...	83.6
	Minimum	69	60	52	58	50	50	65	69	66	65	70	67	72	74	72	70	60	55	54	59	51	55	53	60	62	68	67	72	73	67	....	62.9
Maryville §§	Maximum	74	71	70	74	77	80	82	85	89	89	89	92	94	91	92	76	75	73	68	69	76	78	85	86	82	90	93	93	89	89	....	82.4
	Minimum	60	51	53	52	41	49	56	62	62	63	65	67	69	69	70	63	55	53	52	54	48	51	51	51	60	62	66	69	64	61	....	58.7
Oregon	Maximum	78	72	72	74	77	81	85	86	90	88	89	91	93	92	92	79	72	72	69	68	76	79	81	86	83	90	92	92	89	88	..	82.6
	Minimum	61	54	52	52	44	52	62	63	65	62	69	66	68	69	70	61	55	52	52	51	50	49	52	59	61	68	67	69	67	64	....	59.6
St. Joseph	Maximum	80	73	72	74	76	83	86	85	88	90	90	92	94	91	92	79	70	72	72	68	76	78	84	87	84	92	93	92	90	89	....	83.1
	Minimum	62	58	57	56	50	57	66	62	70	70	73	73	75	75	73	61	59	57	58	56	56	57	55	63	64	69	72	74	69	68	....	63.8
Trenton	Maximum	85	72	73	71	76	79	84	80	88	87	89	90	92	92	91	85	75	74	78	70	74	76	82	87	83	91	93	92	85	88	....	82.9
	Minimum	65	59	54	55	53	54	64	58	66	67	68	68	71	70	72	65	59	55	56	54	53	54	55	64	62	68	68	72	71	62	....	62.1

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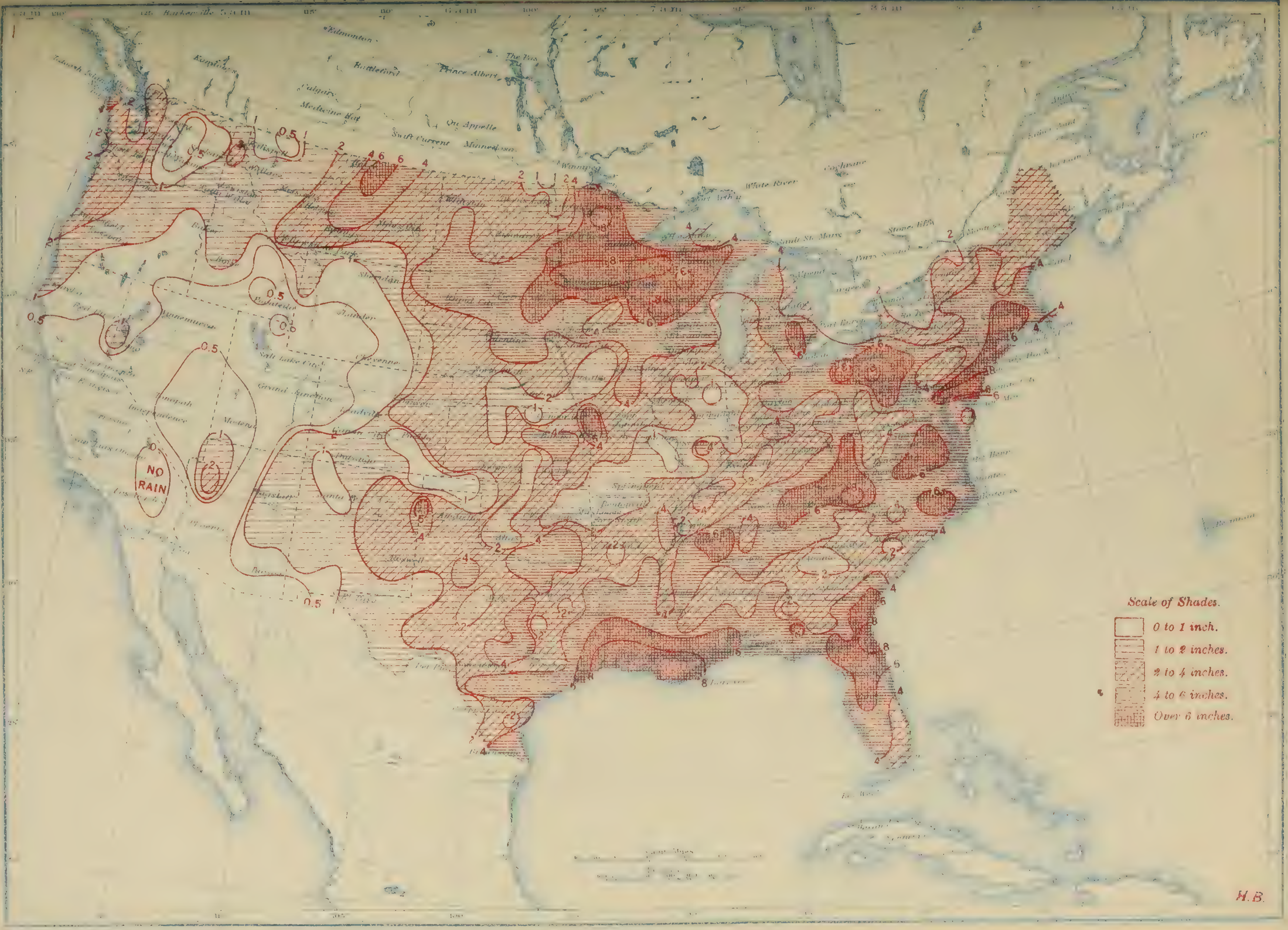
a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

Total Precipitation, Inches, June, 1926.



Daily Evaporation (inches) and Wind Movement (miles) for June 1920, at Columbia, Mo.

Date.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mo.
Columbia*	Evaporation	.165	.227	.181	.235	.212	.249	.250	.127	.076	.226	.289	.248	.269	.275	.313	.348	.374	.179	.249	.180	.098	.194	.166	.224	.222	.181	.296	.288	.355	.223	....	6.919
	Wind movement	21	24	34	38	27	26	20	14	14	16	21	22	24	22	25	42	68	44	40	28	21	22	32	17	18	23	26	20	43	33	....	825
University of Mo.†	Evaporation.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Wind movement	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....

*Observations taken at 6.45 a.m. † Observations taken at 5.30 p.m. ** Included in next following measurement. Both stations are located on the University grounds; one on the West Campus and the other about one mile southeast on the Experiment Farm. To prevent confusion of records the former will be known as "Columbia" and the latter as "University of Missouri." The equipment is the same in both cases (see Annual Summary, 1918); but the Experiment Farm station has a freer exposure to sun and wind.

DAMAGING STORMS.

Damage during the month was local in several counties, due to rather severe thunderstorms, in two of which damage by hail also occurred.

On the afternoon of the 2d a barn west of New Madrid, a house or two in Marston, and numerous trees were blown down in a severe thundersquall that passed from north to south. On the morning of the 7th a large barn in Cameron was struck by lightning and burned, with an estimated loss of $3,000. On the morning of the 8th, a house near Bucklin was struck by lightning and damaged; the local telephone system of Bucklin was damaged considerably. Jackson County near Kansas City was visited by a thunderstorm and very heavy rain the same morning. Intense lightning together with the downpour of rain caused much damage to public utilities, truck and flower gardens were washed, and a balloon and hangar were blown down and destroyed. One man was killed, damage estimated $50,000.

Hollister, in Taney County reported a destructive wind and hail storm on the 16th, without indicating the extent of damage. Brunswick reported damage to trees, windows, and roofs on the same day.

On the 21st, wheat, oats, and fruit were damaged considerably in a wind and hail storm in southwestern Dent County. The damage is estimated at $25,000. Many other stations reported hail on this date but no other damage was indicated.

Only one station, Liberty, in Clay County, reported damage in the extensive thunderstorm area of the 29th. Thunderstorms and moderate to heavy rains were quite general throughout the State but no mention of wind damage is made, save a minor loss at Liberty.

OBSERVERS' REMARKS.

Brunswick — High wind on the 16th, damaging trees and roofs.

Kirksville — A fine growing month with no untoward weather occurrences.

Macon — Month very favorable to all crops and vegetation.

Palmyra — Extremely warm month. Wheat harvest commenced the 28th; yield about average; acreage about 65 per cent of the normal.

St. Catherine — June has been dry with an abundance of sunshine. Corn looks good and some has been "laid by". Meadows are good in the bottoms but rather light on the high land.

Bolivar — Month unusually dry and cool. The good rain of the 30th came in time to save corn from damage and to benefit pastures and young meadows.

Farmington — The drouth, coming so abruptly after the excessive rains of May, is being severely felt the last of the month. Early potatoes have been cut short and gardens are suffering, but wheat and oats were good and young corn is looking well. Fruit is of fair quality but the crop is light.

Gano — The weather has been very dry and everything is suffering.

Hollister — Destructive wind storm with hail on the 16th.

Houston — We have not had much rain this month but corn is clean and in good shape for growing if we can get rain. Wheat harvest is about over and early oats are harvested.

Lockwood — A very warm dry month, only one day with rain. Harvest is well advanced and corn looks good but the chinch bugs are bad and some damage has been done to crops.

Amoret — Corn all planted by the 12th, and growing fine. Commenced harvesting oats and wheat the 24th.

Appleton City — First part of the month was cool but as a whole it was favorable for general farm work. Wheat and oat harvest late on account of unfavorable spring. Less rain than in 1919.

Lamonte — Corn all clean and well cultivated. Wheat and oats being harvested since the 20th. Chinch bugs numerous and moving into cornfields in armies.

Warsaw — The entire month was dry but fine for farm work and wheat harvest which was completed. Glorious rain on the 29th-30th has relieved the drouth.

Avalon — Very dry from the first to the 29th. Splendid rain on the 29th came in the nick of time for the potato crop and meadows. Good harvest weather now.

Chillicothe — Corn looking fine; wheat and oats extra good and nearly all cut.

Grant City — Corn late but looks well and promises good crop; wheat fairly good; oats, alfalfa, meadows, and pastures extra good.

Kidder — The first ten days of the month were mostly cloudy with two heavy rains. High temperatures prevailed during the entire month.

Liberty — On the 29th there were a few light showers during the a. m. and in the evening a thunderstorm came from the southwest with some hail and strong wind.

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U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

MISSOURI SECTION

IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

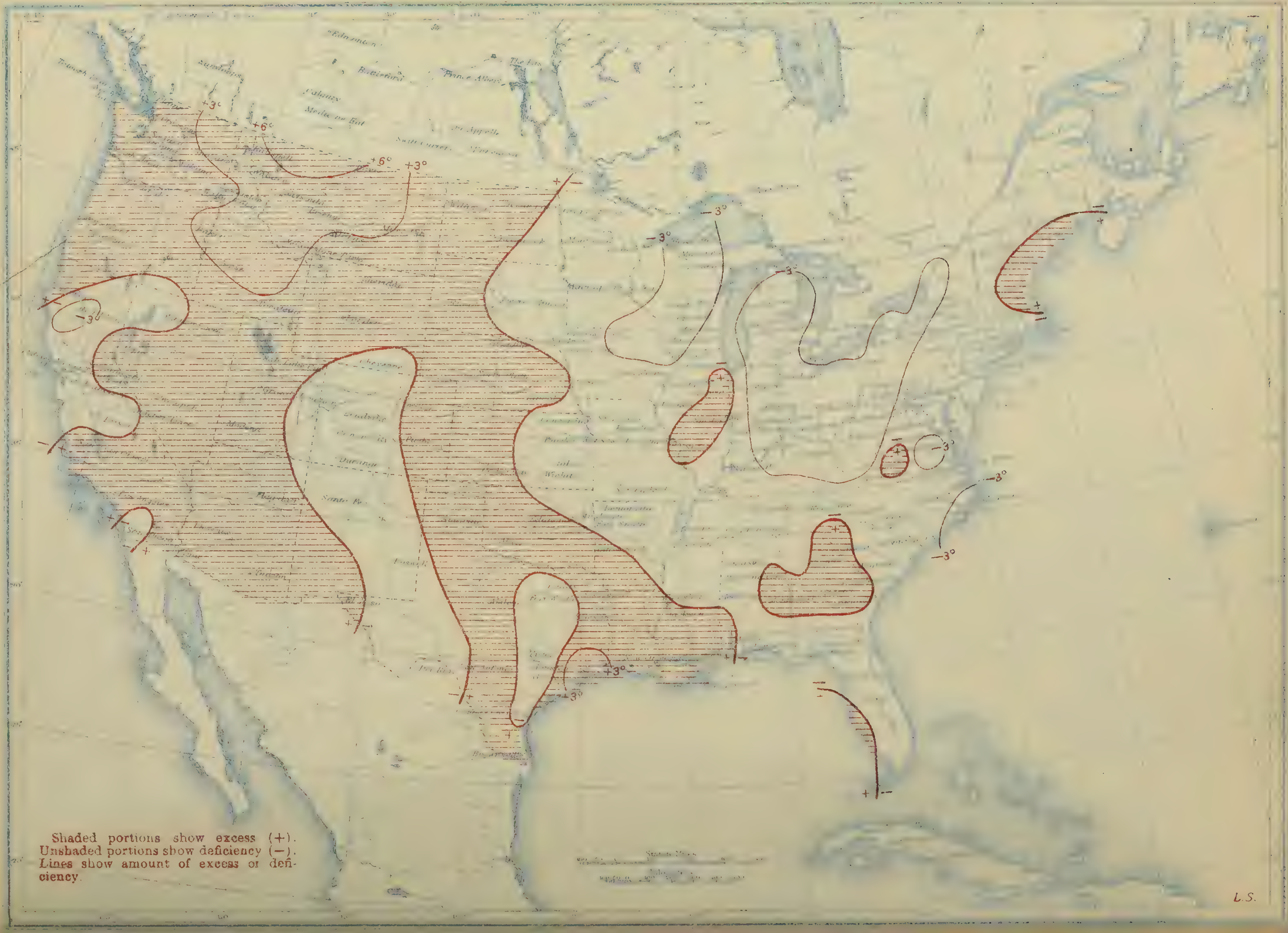
JULY, 1920

BY
GEORGE REEDER
METEOROLOGIST

1862 1889

COLUMBIA, MO.
WEATHER BUREAU OFFICE
SEPTEMBER 10, 1920

Departure of the Mean Temperature from the Normal, July, 1920.



Shaded portions show excess (+).
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXIV. COLUMBIA, MO., JULY, 1920. No. 7.

GENERAL SUMMARY.

July, 1920, in Missouri, was relatively dry and cool, with nearly normal sunshine, and wind movement. From the side of personal comfort it was nearly an ideal summer month.

In most of the northwestern plateau and practically all of the southeastern lowlands showers were of sufficient frequency and adequate in amounts for nearly normal crop growth; but in the other three divisions the total rainfall fell somewhat short of the proper supply for best results.

Following a dry June the continued lack of moisture in July aggravated the drouth conditions to some extent, especially in parts of the southwestern plain thence northeast embracing the northern slope of the Ozarks and the lower section of the northeastern plain.

Late planting, and the prevailing moderate temperature condition gave considerable sustaining power to the corn crop, so that damage was not general at the close of the month. The most decided corn deterioration would be found in the counties of Warren, St. Charles, St. Louis, and Franklin; and probably, though of a somewhat less serious nature, from about Pike County southwest across Montgomery to about Miller, Maries, and Phelps. The weather was about ideal for harvesting, threshing, and other outdoor pursuits.

There were a few wind and hail storms, the damage being confined to small areas. For more detailed notes see page 56.

TEMPERATURE.

The monthly mean temperature for the State, 63 stations reporting, was 76.3°. The mean departure from the normal for 61 stations having 10 or more years' record was minus 0.9°. The month's warmth was quite uniformly distributed but the temperature deficiency was slightly more pronounced in the southwestern plain, and in the Ozark Plateau, than in the three other divisions. The weather alternated in short moderately warm and cool periods. There was very little excessive heat. The 23d was the warmest day, when day temperatures reached or exceeded the 100° value at about 44 stations; on the 9th, and 27th night temperatures ranged below 60° generally and below 50° at several stations.

PRECIPITATION.

The average precipitation for the State was 3.25 inches. The mean departure from the normal, for 71 stations having 10 or more years' record was minus 0.84 inch. The rainfall was below normal in all divisions but the deficiency was much less marked in the southwestern plateau, and in the southeastern lowlands. The precipitation was in the form of local showers, quite frequent, but as a rule light to moderate. The days of most widespread distribution were 2d, 5-6th, 13-14th, and 26th. There were some heavy local amounts. At Unionville, 3.80 inches fell within less than 24 consecutive hours on the 13th; and at Kansas City 3.84 inches fell within a 24-hour period ending on the 26th. The heaviest local monthly amounts were 7.22 inches at Unionville, 5.16 at Poplar Bluff, 5.87 at Koshkonong, 6.64 at Warsaw, and 9.78 inches at Kansas City.

WIND.

The prevailing winds were from the southwest. The average movement, based on the records of 8 stations equipped with anemometers was 5,267 miles, or about 7.1 miles per hour, which is about normal. Quite a high thunderstorm squall occurred at a few stations on the 1st, and there were some strong local winds on the 12th.

SUNSHINE AND CLOUDINESS.

There were 18 clear and 5 cloudy days. The average number of hours of sunshine was 345, or 76 per cent of the possible and about 5 per cent greater than normal; and about 11 per cent less than July, 1919.

MISCELLANEOUS PHENOMENA.

Hail. — 7th, 10th, 22d, and 24th.

Halos, solar. — 6th, 7th, 9th, 12th, 14th, 16th, 17th, 24th, 25th, 29th, and 31st. Lunar, 23d.

Thunderstorms. — General, 1st, 4th, 5th, 14th, 24th, and 31st. More or less local, 3d, 6th, 7th, 9th, 12th, 13th, 17th, 18th, 19th, 22d, 25th, 26th, and 30th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	30.00	82	56	341	75	4,449	6.0	33	s.	12
Hannibal	30.00	77	......	......	......	4,900	6.6	37	sw.	12
Kansas City	30.00	75	54	372	82	6,518	8.8	55	nw.	1
St. Joseph	29.98	80	53	371	81	4,652	6.3	38	nw.	6
St. Louis	30.00	68	44	337	75	7,538	10.1	50	sw.	1
Springfield	30.02	83	59	282	63	5,277	7.1	38	s	3
Cairo, Ill	30.00	82	62	......	......	4,637	6.2	48	nw.	14
Keokuk, Iowa	30.02	75	53	366	80	4,163	5.6	50	nw.	1

SUPPLEMENTAL TABLE OF DATA.

Stations.	Length of record, years.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	No. of days. With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Boonville	41	2.52	−1.44	1.16	0.0	8	16	5	10	w.	C. Randecker.
C. Girardeau	11	3.01	−0.08	1.54	0.0	7	20	3	8	s.	D. L. Albert.
Glencoe	1	....	....	....	...		..	.	..	......	L. M. Beard.
Hermann	41	1.11	−2.86	0.63	0.0	6	20	0	11	sw.	J. G. Rebsamen.
New Madrid	24	5.22	+1.22	1.33	0.0	10	19	3	9	s.	Miss Josie Smith.
Osceola	18	3.83	−0.31	1.05	0.0	8	25	0	6	......	John T. Fields.
Pacific	1	0.79	....	0.54	0.0	4	24	3	4	w.	Mark Waters.
Steelville	16	1.67	−1.68	0.90	0.0	8	21	0	10	w.	A. Kreamelmeyer.
Tuscumbia	1	1.86	....	0.76	0.0	8	20	4	7	n.	C. B. Wright.
Union	1	1.93	....	1.10	0.0	7	20	4	7	sw.	J. Wm. Keller.
Valley Park	1	1.67	....	0.64	0.0	6	18	10	3	......	T. W. McNeese.
Waverly	3	3.17	....	0.89	0.0	8	19	4	8	sw.	F. N. Cauthorn.

COMPARATIVE DATA FOR JULY.

Year.	Temperature. Mean.	Departure.	Highest.	Lowest.	Precipitation. Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of Days. With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	79.3	+2.3	111	50	3.31	−0.98	......	0	7	.....	.....	.....
1889	77.1	+0.1	107	46	3.75	−0.54	......	0	8	.....	.....	.....
1890	79.6	+2.6	106	52	2.98	−1.31	......	0	5	....	.....	.....
1891	72.7	−4.3	103	40	3.55	−0.74	......	0	8	.....	.....	.....
1892	75.8	−1.2	101	45	4.99	+0.70	4.75	0	8	12	10	9
1893	77.3	+0.3	101	51	4.91	+0.62	6.44	0	8	14	12	5
1894	76.5	−0.5	109	42	2.48	−1.81	4.90	0	5	18	10	3
1895	74.4	−2.6	106	45	6.79	+2.50	6.52	0	10	10	12	9
1896	77.3	+0.3	108	48	5.87	+1.58	8.00	0	9	15	11	5
1897	78.7	+1.7	106	48	3.22	−1.07	4.05	0	6	19	9	3
1898	76.1	−0 9	104	42	5.58	+1.29	8.15	0	9	16	10	5
1899	76.0	−1.0	102	43	4.51	+0.22	4.48	0	9	15	11	5
1900	76.9	−0.1	102	46	4.11	−0.18	7.03	0	8	17	10	4
1901	85.4	+8.4	116	46	2.02	−2.27	3.78	0	5	19	10	2
1902	77.0	0.0	103	50	4.59	+0.30	5.30	0	8	17	11	3
1903	77.4	+0.4	102	51	3.22	−1.07	3.26	0	8	17	10	4
1904	74.2	−2.8	100	47	4.65	+0.36	4.15	0	10	15	11	5
1905	73.4	−3.6	101	48	7.45	+3.16	7.60	0	12	12	10	9
1906	74 7	−2.3	100	48	3.53	+0 76	4.46	0	8	17	10	4
1907	78.4	+1.4	105	47	4.57	+0.28	6.70	0	8	19	8	4
1908	76.5	−0.5	101	49	2.23	−2.06	2.65	0	8	18	9	4
1909	76.7	−0.3	102	41	6.41	+2.12	10.71	0	10	17	8	6
1910	76.8	−0.2	109	46	6.70	+2.41	5.80	0	9	16	9	6
1911	78.0	+1.0	113	43	3.95	−0.34	4.20	0	8	16	9	6
1912	78.8	+1.8	104	52	2.74	−1.55	3.17	0	7	18	9	4
1913	80.2	+3.2	108	47	3.13	−1.16	3.62	0	7	18	9	4
1914	80.5	+3.7	109	45	2.67	−1.66	4.45	0	7	17	9	5
1915	74.6	−2.4	102	42	6.05	+1.59	6.77	0	12	14	9	8
1916	81 6	+4.6	109	52	1.25	−3.15	2.55	0	3	25	5	1
1917	77.5	+0.2	107	42	2.96	−1.22	3.40	0	8	20	8	3
1918	77.1	+0.2	110	41	1.76	−2.49	3.75	0	6	19	8	4
1919	80.0	+2.3	115	50	2.33	−1.37	4.55	0	5	23	6	2
1920	76.3	−0.9	105	47	3.25	−0.84	3.84	0	7	18	8	5

Climatological data for July, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	39	76.8	+1.6	101	23	56	27†	34	3.22	−1.42	0.98	0	8	20	0	11	nw.	O. K. Benecke.
Clifton Hill	Randolph	731	21	76.6	+0.6	99	23	57	26†	33	2.89	−1.37	0.84	0	9	19	11	1	......	L. S. Harlan.
Columbia	Boone	784	31	75.8	−1.6	98	23	57	26	30	2.61	−1.04	1.50	0	9	16	10	5	sw.	U. S. Weather Bureau.
Fayette	Howard	725	41	75.6	−0.8	97	23	56	28	32	3.63	−0.14	0.85	0	7	20	7	4	......	Prof. D. R. Briggs.
Fulton	Callaway	818	33	77.6ᵇ	−0.3	99	23	54	27†	39	3.38	−0.96	1.97	0	6	14ʲ	5ʲ	2ʲ	......	Westminster College.
Gorin	Scotland	700	32	......	......	......	......	......	......	....	5.81	+1.63	1.53	0	9	15	9	7	sw.	J. W. Pulliam.
Hannibal	Marion	534	37	75.3	−2.1	98	23	56	27	32	2.74	−1.01	0.72	0	10	14	10	7	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	87	77.0	−1.1	99	23	56	27	35	2.32	−1.21	1.07	0	9	27	1	3	s.	Miss Emma Swift.
Kirksville	Adair	969	38	73.8	−2.3	94	23	55	8†	33	2.63	−1.95	0.82	0	8	24	7	0	s.	Prof. Mark Burrows.
Louisiana	Pike	469	39	75.3	−0.7	100	24	50	12	38	1.18	−2.11	0.66	0	6	22	9	0	w.	J. T. Farrell.
Macon	Macon	875	26	76.4	−1.0	100	23	55	27	35	2.96	−0.70	1.05	0	10	21	7	3	se.	W. C. Brown.
Mexico	Audrain	797	41	77.4	+0.1	102	23	55	11	40	1.03	−2.98	0.50	0	5	29	1	1	sw.	Mrs. Abbie Snoddy.
Oakfield	Franklin	793	38	......	......	......	......	......	......	....	......	......	....	......	....	....	....	....	......	E. E. Steines.
Palmyra	Marion	652	20	75.2	−3.9	98	23	53	27	36	4.47	+0.96	1.05	0	7	14	10	7	sw.	W. B. Markell.
St. Catherine	Linn	850	9	74.1	....	94	22†	54	27	32	4.62	....	1.84	0	10	19	11	1	sw.	L. D. Baker.
St. Charles	St. Charles	456	41	78.8	+1.1	105	23	58	11	37	0.78	−2.72	0.35	0	4	18	9	4	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	83	78.8	−0.3	99	23	61	25	24	0.73	−2.70	0.26	0	9	16	14	1	sw.	U. S. Weather Bureau.
St. Louis (2)	....do	578	8	78.4	−1.7	100	23	61	25	28	0.83	−1.81	0.28	0	10	18	12	1	se.	St. Louis University.
Shelbina	Shelby	779	27	......	......	......	......	......	......	....	2.23	−2 37	0.78	0	4	....	....	....	......	S. G. Parsons.
Steffenville	Lewis	650	26	77.2ᵃ	0.0	99	22	55	26	36	3.28	−1.57	1.05	0	5	16ᵃ	13ᵃ	1ᵃ	sw.	Frank Hall.
Unionville	Putnam	1,072	27	73.4	−3.3	96	23	51	27	33	7.22	+3.03	3.80	0	8	15	8	8	s.	Geo. W. Davis.
Warrenton	Warren	865	38	77.9	+0.3	103	23	56	11	33	1.67	−2.26	0.71	0	7	11	14	6	nw.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	48	75.2	−1.8	97	23	57	7	28	3.84	−0.19	1.26	0	8	9	17	5	sw.	U. S. Weather Bureau.
Section means and	extremes	......	....	76.3	−0.9	105	23	50	12	40	2.91	−1.09	3.80	0	8	18	9	4	sw.	
Southeast Lowlands.																				
Caruthersville††	Pemiscot	220	29	83.6	+3.4	103	3	62	11†	35	3.71	+0.23	0.84	0	8	25	6	0	w.	H. E. Averill.
Doniphan	Ripley	344	16	77.8	−0.3	98	24	55	28	35	3.26	−1.79	1.14	0	7	19	6	6	sw.	W. W. Martin.
Jackson	Cape Girardeau	458	30	77.9	+0.6	101	3	51	9	39	4.46	+0.93	1.90	0	7	6	13	12	s.	John J. Patz.
Marble Hill	Bollinger	420	26	......	......	......	......	......	......	....	......	......	....	......	....	....	....	....	......	F. W. Wells.
Patton (near)	Bollinger	500	10	......	......	......	......	......	......	....	3.78	−0.22	1.01	0	7	....	....	....	......	George F. Ellis.
Poplar Bluff	Butler	339	16	78.6	+0.1	99	3†	55	27	38	5.16	+1.56	1 31	0	9	16	5	10	...	Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill	359	45	78.3	−0.3	94	24	60	27	24	2.82	−0.63	1.23	0	7	11	13	7	sw.	U. S. Weather Bureau.
Section means and	extremes	......	....	78.2	0.0	101	3	51	9	39	3.90	−0.03	1.90	0	7	13	9	9	sw.	
Ozark Plateau.																				
Arcadia	Iron	925	42	75.2	−0.7	98	24	50	9†	37	3.71	−0.63	1.55	0	8	15	13	3	s.	Arcadia College.
Aurora	Lawrence	1,370	....	76.8	−1.0	98	4†	50	28	38	1.65	−3.71	0.51	0	6	22	6	3	s.	C. D. Sprague.
Birchtree	Shannon	1,078	26	76.0	−0.3	101	24	53	9	33	2.91	−1.24	0.81	0	7	22	7	2	sw.	V. H. Kirkendall.
Bolivar	Polk	1,071	33	75.8	−1.3	98	4†	53	28	37	3.91	+0.11	1.82	0	8	19	9	3	sw.	K. H. Brown.
Cassville	Barry	1,475	21	......	......	......	......	......	......	....	......	......	....	......	....	....	....	....	......	E. H. Wallen.
Dean	McDonald	1,000	21	76.3	−1.3	99	24	53	10†	43	3.13	−1.06	1.56	0	4	25	3	3	s.	H. E. Dean.
Eldon	Miller	934	21	75.4	−1.6	101	3	50	26	38	2.30	−1.48	0.80	0	6	7	20	4	sw.	E. H. Shepherd.
Farmington	St Francois	918	23	76.2	+1.6	96	22†	54	27	31	4.20	−0.53	1.41	0	10	11	15	5	nw.	Robert Forsyth.
Gano	Dent	1,250	18	75.0	−1.9	100	24	50	9	37	2.44	−1.26	0.63	0	6	20	9	2	w.	A. C. Leach.
Goodland	Iron	1,000	27	74.5	−1.1	100	24	47	9	40	2.96	−1.31	0.97	0	7	9	19	3	s.	F. M. Adams.
Hollister	Taney	735	17	78.6	−0.8	104	21	50	8	39	2.70	−1.43	1.35	0	4	22	0	9	se.	W. P. Chapman.
Houston	Texas	1,280	27	......	....	100	24	......	......	....	2.48	−1.77	1.19	0	5	23	6	2	se.	R. F. Harmon.
Koshkonong	Oregon	958	19	78.2	0.0	101	3	57	27†	31	5.87	+1.91	2.00	0	7	15	15	1	sw.	R. M. Hitt.
Lebanon	Laclede	1,265	32	74.2	−2.8	97	24	54	9†	34	5.32	+1.20	1.88	0	8	20	5	6	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	24	77.4ᶜ	−0.1	97	24	55	28	33	1.26	−3.88	0.78	0	3	21ᶜ	4ᶜ	3ᶜ	sw.	C. S. Crow.
Mountain Grove	Wright	1,490	23	75.0	−1.0	100	24	53	9†	35	2.78	−1.26	0.83	0	9	12	15	4	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	76.6	−1.0	96	3†	51	9	34	4.08	−0.18	1.12	0	6	23	6	2	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,139	36	77.2	−0.1	101	24	55	11†	37	1.04	−3.13	0.58	0	3	16	14	1	sw.	Prof. Elmo G. Harris.
Springfield	Greene	1,350	42	76.0	+0.4	95	4	57	9	29	2.42	−2.37	0.98	0	9	15	12	4	s.	U. S. Weather Bureau.
Section means and	extremes	......	....	76.1	−0.8	104	24	47	9	43	3.06	−1.22	2.00	0	6	18	10	3	sw.	
Southwest Plain.																				
Amoret	Bates	831	13	77.0	−0.4	102	4	55	9†	35	3.09	−1.13	2.10	0	7	25	3	3	s.	Darby Fruit Farm.
Appleton City	St. Clair	853	28	77.6	−0.6	98	3†	58	9	30	2.26	−2.58	0.90	0	6	21	9	1	sw.	W. G. Bigelow.
Clinton	Henry	765	33	77.8	+0.4	100	22	57	11†	36	2.60	−1.47	1.48	0	4	19	10	2	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	912	44	76.6	−2.2	99	22†	57	26	31	3.06	−0.78	0.98	0	9	14	12	5	se.	John H. Patterson.
Lamar	Barton	980	39	76.4	−2.1	99	24	55	9†	34	3.72	−0.62	1.64	0	8	20	8	3	s.	Joe W. Springer.
Lamonte	Pettis	863	33	......	......	......	......	......	......	....	......	......	....	......	....	....	....	....	......	J. Ed. Hall.
Marshall	Saline	779	31	75.9	−1.3	100	23	53	9	35	2.21	−1.84	0.54	0	8	18	10	3	sw.	Dr. W. H. Black.
Nevada	Vernon	860	28	77.3	−3.1	98	24	55	9†	31	1.69	−2.40	0.89	0	7	20	9	2	s.	George A. Kaupp.
Warrensburg††	Johnson	883	42	78.1ᵃ	−0.7	102	23	59	8†	33	5.31	+1.39	1.67	0	7	....	....	....	......	S. I. Major.
Warsaw	Benton	715	25	75.8	−2.5	97	4†	52	9	36	6.64	+2.27	1.30	0	11	14	16	1	e.	J. R. Smith, M. D.
Section means and	extremes	......	....	76.8	−1.4	102	4	52	9	36	3.16	−1.07	2.10	0	8	19	10	2	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	30	78.0	−0.9	101	23	60	7†	28	3.50	−0.67	1.70	0	6	20	10	1	sw.	F. G. Ashbaugh.
Bethany	Harrison	916	28	75.2	−0.5	99	23	51	27	34	4.02	−0.49	1.23	0	10	16ᵃ	9ᵃ	5ᵃ	sw.	M. H. Moulton.
Chillicothe	Livingston	768	15	76.3	−1.5	98	3†	54	27	33	4.26	−0.89	1.88	0	8	24	0	7	sw.	R. E. Isherwood.
Conception	Nodaway	982	35	76.6	+0.7	101	23	56	8†	32	3.23	−1.12	2.05	0	6	12	14	5	sw.	Fr. Adelhelm Hess.
Edgerton	Platte	856	....	75.4	....	98	3†	52	9†	38	4.50	....	2.25	0	8	20	7	4	sw.	Fred L. Stiff.
Gallatin	Daviess	......	....	......	......	......	......	......	......	....	......	......	....	......	....	....	....	....	......	
Grant City	Worth	1,134	29	75.0	−0.6	101	23	53	9	35	3.39	−1.55	2.25	0	6	19	6	6	nw.	W. H. Campbell.
Kansas City	Jackson	963	31	76.8	−0.8	98	23	58	26	26	9.78	+4.94	3.84	0	10	19	9	3	sw.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	33	74.1	−2.6	96	3	54	27	30	3.13	−0.98	1.65	0	8	20	4	7	se.	J. F. Sharp.
Lexington	Lafayette	688	38	76.8	−0.3	99	23	56	27	30	3.35	−1.47	1.15	0	10	22	0	9	s.	J. W. Keithley.
Liberty	Clay	864	30	76 4	−1.3	98	23	55	27	31	6.41	+1.81	2.06	0	9	18	12	1	ne.	James H. Harris.
Maryville	Nodaway	1,036	30	73.6	−1.9	101	23	49	27	39	3.22	−2.49	1.51	0	7	19	5	7	s.	J. R. Brink.
Oregon	Holt	1,048	64	73.6	−1.8	97	23	53	27	30	5.04	+0.66	2.86	0	8	17	11	3	sw.	Tom Curry.
St. Joseph	Buchanan	967	46	76.7	−2.5	100	23	57	27	26	3.34	−0.54	2.02	0	12	17	13	1	sw	U. S. Weather Bureau.
Tarkio ††	Atchison	976	27	76.0ᵃ	−0.8	97	23	53	27	32	2.69	−1.15	1.48	0	8	26ᵃ	2ᵃ	2ᵃ	sw.	John F. Frazier.
Trenton	Grundy	822	25	75.7	−0.8	96	23	58	8†	25	5.84	+1.86	2.45	0	7	24	6	1	s.	W. H. Estes.
Section means and	extremes	......	....	75.7	−1.1	101	23	49	27	39	4.50	−0.07	3.84	0	8	19	8	4	sw.	
State means and	extremes	......	....	76.3	−0.9	105	23	47	9	43	3.25	−0.84	3.84	0	7	18	8	5	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ᵃ, ᵇ, ᶜ, appearing in the table indicate number of days missing; for example, ᵇ represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Oakfield, Pacific, R. F. D. No. 1; of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily precipitation for July, 1920.

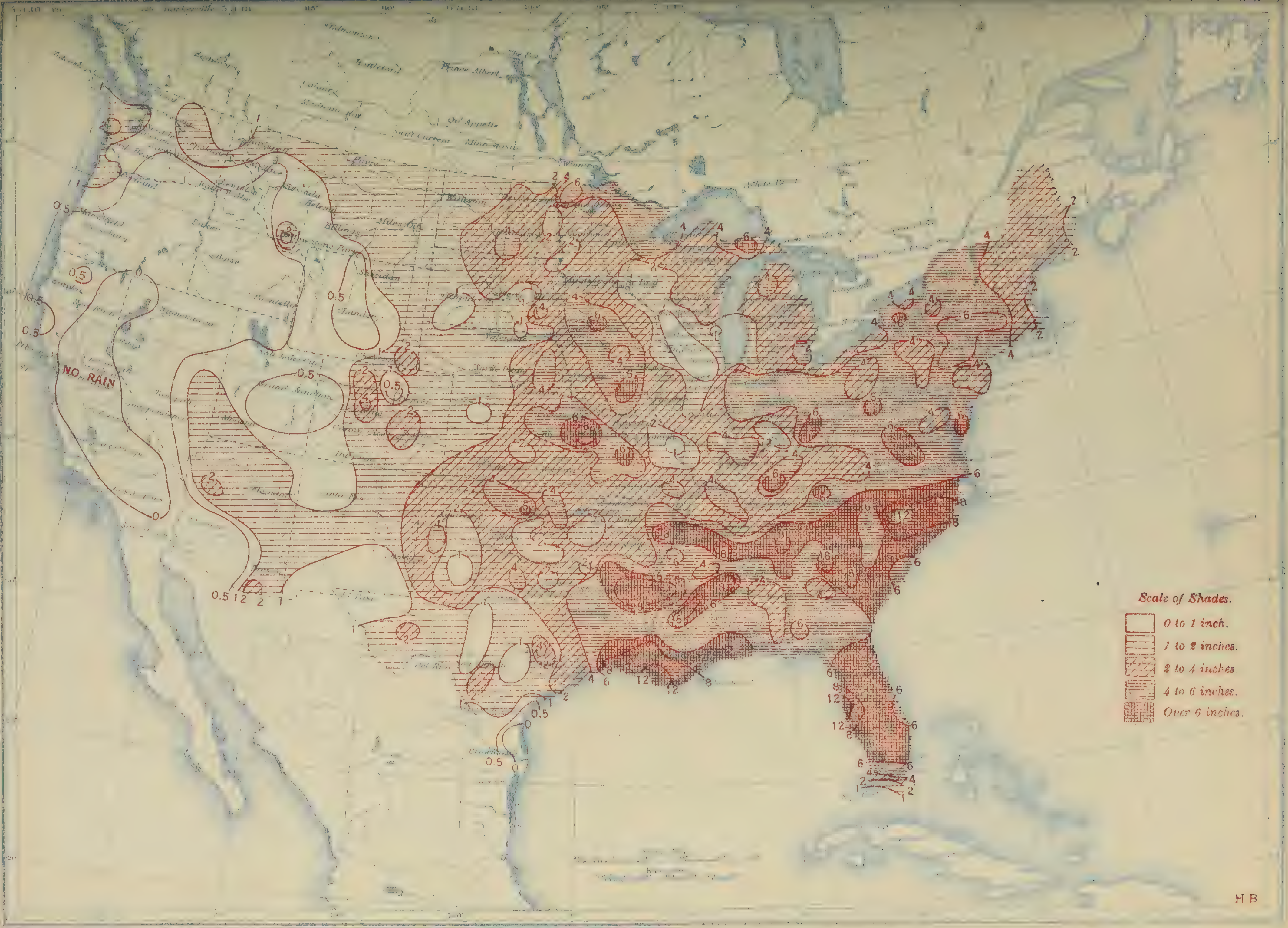
Stations.	Watersheds.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville ‖	Missouri		.03			1.16	.36				.53			.10	.02					T.						T.	.27	.05					2.52
Brunswick ‖	Grand					.10	.98	.34						.20	.83	.05											.66	.06					3.22
Clifton Hill	Chariton		.05			.25	.40				.25				.84							.01				.11	.22					.76	2.89
Columbia***	Missouri	.03		T.	T.	.09	.01				.34		.21	.02	.11											T.	.30					1.50	2.61
Fayette	....do	.58				.67	.07			.42				T.	.56												.48					.85	3.63
Fulton	....do		.62								.33			.08	.12												.26					1.97	3.38
Glencoe ‖	Meramec																																......
Gorin	Mississippi		1.53			.94		.34					.07	.70	1.40				.01			.16										.66	5.81
Hannibal***	....do	.66				.02	.28	.40		.01	.02			.07	.66							T.				.01	T.					.61	2.74
Hermann ‖	Missouri		.63					.03			.04	.02															.03	.36					1.11
Jefferson City ‖	....do		1.07				.08				.03	.02		.60	.27											.08	.12	.05					2.32
Kirksville	Mississippi		.25			.10	.46		.67					.82	.23							.07				.03						T.	2.63
Louisiana	....do					.30			.03		.66			.03	.02							T.				T.						.14	1.18
Macon ‖	Chariton		.33			.11	1.05	.10	.11					.10	.89	.05							T.				.05					.17	2.96
Mexico ‖	Mississippi						.05	.03	T.					.50	.10												.35						1.03
Pacific ‖	Meramec		.54											T.		.13			.03								T.	.09					0.79
Palmyra ‖	Mississippi		.61				.83		.91		.34			.70	1.05								T.									.03	4.47
St. Catherine	Grand		.54			.72	.32		.15				.36	.57	1.84							T.				.07	.03					.02	4.62
St. Charles	Missouri					T.		T.	.07		.34				T.				T.						.02		T.					.35	0.78
St. Louis (1)***	Mississippi	.11	.03				.01				.12				.08			.07	T.						.01	T.	.04					.26	0.73
St. Louis (2)	....do	.08	.03			.01					.28	.02			.02			.05	T.						.07		.04					.23	0.83
Shelbina	....do					.30					.78			.65	.50																		2.23
Steffenville	....do		.63		T.	1.00		.30					.30	1.05							T.										T.		3.28
Union ‖	Meramec		1.10								.10			.02	.02					.47							.07	.15					1.93
Unionville	Chariton	T.	.60		T.	2.15		.30					.90	2.90	.12						.10				T.	.15					T.		7.22
Valley Park ‖	Meramec				T	T.						.24		.16	.21					.36	.64						.06						1.67
Warrenton ‖	Mississippi		.01					.07			.25	.23			.18											T.	.16	.06				.71	1.67
Keokuk, Iowa***	....do	.43	.07			1.26	T.	.60						.75	.47				T.			.03				T.						.23	3.84
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi		.25					.13								.18			.84	1.54				.04		.03							3.01
Caruthersville	....do	.84	.30			T.	.60				T.				.38	.38		.36		.55							T.					.30	3.71
Doniphan	Black	.50					.30							1.14	.22			.35								.30	.45					T.	3.26
Jackson	Mississippi	.13			T.	T.												.96		.67			1.90			.10	.02					.68	4.46
Marble Hill	....do																																......
New Madrid ‖	....do	.30	1.05			.38	.52	1.33			.02					.15			.62	.82						.03							5.22
Patton (near)	....do	.30				.02									1.00			1.01					.40					.10				.95	3.78
Poplar Bluff ‖	Black		.72				.15					.65			.09	T.	1.31	1.14	T.					.53		.29					.28		5.16
Cairo, Ill.***	Mississippi		.25		T.		.17				T.				.36			.51		1.23			T.		.03	T	T.					.27	2.82
Ozark Plateau.																																	
Arcadia ‖	St. Francis		.57			.18	.40					.02				.24			1.55					T.		.70	T.	.05					3.71
Aurora	White	.08				.35	.01						.44	.26			.51																1.65
Birchtree	Black		.81				.21								.25		.17									.50	.74					.23	2.91
Bolivar	Osage				.25	1.82	.59	.12					.27		.43	T.									.05		.38					T.	3.91
Cassville	White																																......
Dean	Neosho					.34							.50		T.		.73											1.56					3.13
Eldon	Osage		.80		.41						.36		.15		.18												.40						2.30
Farmington	St. Francis		.22			.18	.08				.38	.07			1.41				.64	.06		.01			1.15							T.	4.20
Gano	Meramec		.63			.47					.53						.12		T.						.41		.28						2.44
Goodland	Black	.07	.40				.02								.97			.81							.47							.22	2.96
Hollister	White	.70		1.35		.15																						.50					2.70
Houston	Gasconade	T.	.52		T.	T.					.15				.18					T.	T.		T.				1.19					.44	2.48
Koshkonong	Black				.55	2.00	.71				T				T.	1.95	.04									.55	.07						5.87
Lebanon ‖	Osage		1.88			.28	1.20	.17				T.			T.	.27										.56	.43	.53					5.32
Lockwood	....do	.30				T.	.18										.78										T.						1.26
Mountain Grove ‖	White					.58	.15				.48	.24				.15		.12								.08	.15	.83					2.78
Neosho	Neosho					.75	.14	T.	T.	T.			.65	T.	.32		1.10											1.12					4.08
Rolla ‖	Meramec		.58									T.														.13		.33					1.04
Springfield***	White	.02		.98	.59	.21	T						.07		.09		.11								T.		.34					.01	2.42
Steelville ‖	Meramec		.28			.39						.90		.02				.02		.02						.02		.02					1.67
Tuscumbia ‖	Osage	T.	.76			.07	.50					T.		.08	.02					.10								.25	.08				1.86
Southwest Plain.																																	
Amoret	Osage		.02			2.10	.22							.07			.10		.25		T.						.33						3.09
Appleton City	....do	T.			.90	.01	.61						.01		.25												.48						2.26
Clinton	....do		1.48			.65							.32		.15																		2.60
Harrisonville ‖	....do		.87	.01		.43	.24							.25	.07											.13	.98	.08					3.06
Lamar ‖	Neosho		.23			1.64	.68	.19						.38	.10			.36									.14	T.					3.72
Lamonte	Missouri																																......
Marshall	....do		.07	T.	T.	.33	.12			T.	.30		.15	.47	.23											T.	.54						2.21
Nevada	Osage	.08				.11							T.		.26		.06		.14						.89		.15						1.69
Osceola ‖	....do		.28			.15	.85	.15						.07		.30				.98							1.05						3.83
Warrensburg	Missouri	1.67			.14	.58							.70													.90	.40					.92	5.31
Warsaw	Osage	1.10	1.15		.65	.15	1.25				T.		.15	.02	.05				1.30							.52	.30						6.64
Waverly ‖	Missouri		.07	T.		.34	.63	.23			.89			.55	.07												.39						3.17
Northwest Plateau.																																	
Avalon	Grand				.50	1.20							.35		1.05											.20	.20						3.50
Bethany	....do	.05	.20	T.		.45	.45		T.		T.		.10	.34	1.00				1.23							.17						.03	4.02
Chillicothe ‖	....do			.03		.40	1.12		.10					.52	1.88	.04											.17						4.26
Conception	Missouri	T.		.03	T.	2.05	T			.03				T.	.67				.13							.32	T.					T.	3.23
Edgerton	Grand	T.		.04	T.	1.05	.06			.17	.07			2.25	T.											.58						.28	4.50
Grant City	....do	.30	T.		T	2.25	.50	.08					T.	T.	T.											.21						.05	3.39
Kansas City***	Missouri	1.01		.35	T.	.64				.20			.63	1.35	.12				T.							3.56	.81					1.11	9.78
Kidder ‖	Grand			.03		.47	.18	.03						1.65	.28					.04						.45							3.13
Lexington ‖	Missouri		.95	T.	.03	.43	.27	.03			.03			1.15	.06												.33	.07					3.35
Liberty	....do		.43	.17		1.90				T.	T.		.30	2.06	.13				T.							.51	.79					.12	6.41
Maryville ‖	....do		.36	.06		.66	1.51	.07	T.		.28			T																		.28	3.22
Oregon	....do	T.				2.86	.21						.35	.26					.28						.30	.38						.40	5.04
St. Joseph***	....do	T.		.07	.17	2.00	.01			.01			.02	.21	.13				.02						T.	.46	.06					.18	3.34
Tarkio	....do	.03		.13		1.48	.20								.10				.13							.45						.17	2.69
Trenton	Grand	.38				1.25	.23	T.					.05	1.32	2.45										T.	.16						T.	5.84

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch.
*** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily temperatures for July, 1920.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Northeast Plain.																																	
Brunswick §§	Maximum	94	96	99	93	94	84	85	81	85	85	87	92	93	87	88	91	93	94	88	94	96	98	101	92	69	80	87	90	92	95	86	89.9
	Minimum	68	67	67	78	70	68	63	60	59	59	59	65	67	66	64	63	64	67	61	61	63	68	70	72	64	58	56	56	58	59	63	63.7
Columbia	Maximum	93	87	94	92	86	83	80	78	82	80	84	90	90	85	83	86	90	92	84	90	95	97	98	95	77	75	83	88	90	93	77	87.0
	Minimum	67	65	68	73	70	66	60	60	57	60	57	65	69	68	65	61	68	69	62	62	65	71	72	71	64	57	58	59	61	63	70	64.6
Fayette	Maximum	91	93	96	93	86	80	84	79	82	82	84	88	88	84	86	87	90	92	84	90	93	95	97	94	76	77	80	87	89	92	78	87.0
	Minimum	68	67	69	71	69	67	63	61	58	61	58	64	68	66	65	60	67	70	61	59	64	69	70	76	64	57	57	56	57	60	67	64.2
Hannibal	Maximum	93	90	92	87	85	82	80	77	83	79	83	89	91	82	83	85	80	92	79	89	91	94	98	85	71	79	83	89	91	94	83	86.1
	Minimum	65	66	69	67	70	65	60	60	59	62	59	67	71	67	61	61	68	69	62	61	68	70	72	69	61	61	56	57	63	66	67	64.5
Jefferson City §§	Maximum	94	92	96	94	88	85	82	79	86	80	86	90	90	88	85	88	92	95	85	90	95	97	99	97	80	76	85	90	95	97	77	88.8
	Minimum	68	65	69	70	68	66	62	65	57	61	57	65	67	70	67	61	67	69	64	62	65	72	72	76	65	59	56	58	60	65	69	65.1
Kirksville	Maximum	87	88	90	84	84	79	79	77	80	79	82	86	87	85	81	83	89	89	78	87	88	91	94	90	76	77	80	86	89	90	86	84.5
	Minimum	67	64	68	65	68	65	58	55	56	58	57	62	64	65	62	58	56	73	56	61	68	70	73	70	60	57	55	65	62	64	71	63.0
Louisiana	Maximum	90	92	93	92	90	85	86	84	83	83	82	88	90	92	82	83	90	95	94	86	90	96	98	100	90	78	84	90	92	91	93	89.2
	Minimum	62	65	64	66	64	67	62	62	55	60	58	50	70	70	60	56	65	68	60	55	62	62	68	76	60	60	52	52	55	62	55	61.4
Macon §§	Maximum	94	92	98	94	92	83	82	80	85	86	88	94	91	85	88	90	94	93	86	94	93	97	100	91	71	86	89	91	93	94	89	89.8
	Minimum	66	65	68	65	69	65	59	57	58	60	57	62	67	65	58	60	65	70	56	59	66	70	71	70	60	59	55	57	60	65	68	63.0
Mexico §§	Maximum	98	91	98	91	93	87	85	81	87	88	88	94	97	99	86	90	96	86	90	96	97	100	102	100	72	79	88	93	95	98	84	91.3
	Minimum	62	66	70	69	69	68	60	62	60	60	55	65	67	68	62	62	56	69	58	60	64	70	73	75	58	56	56	57	61	62	68	63.5
St. Catharine	Maximum	89	88	92	87	86	80	80	77	84	82	82	85	86	82	82	84	87	93	81	86	87	94	91	86	76	77	83	87	89	91	85	85.2
	Minimum	67	65	69	68	68	65	60	56	57	59	58	64	65	63	58	60	60	69	57	62	67	71	70	72	60	60	54	58	57	64	70	63.0
St. Louis (1)	Maximum	94	91	96	90	82	88	85	80	83	81	84	91	93	88	85	88	92	92	83	85	92	98	99	96	81	76	83	86	91	94	85	88.1
	Minimum	74	70	74	71	73	71	65	66	65	65	64	69	73	75	69	70	71	71	64	67	71	75	79	72	61	64	64	67	68	73	71	69.4
Unionville	Maximum	89	90	93	88	86	78	80	78	83	82	83	84	86	82	84	85	88	89	82	86	90	92	96	85	74	76	84	86	90	91	88	85.4
	Minimum	63	61	62	62	66	62	57	55	60	55	58	62	63	64	55	60	62	70	54	60	65	72	71	70	60	55	51	55	62	66	70	61.5
Warrenton §§	Maximum	96	92	98	95	87	89	85	82	89	76	86	92	93	85	87	91	95	97	85	94	92	100	103	100	79	78	86	93	96	98	83	90.4
	Minimum	69	66	71	68	71	68	60	62	60	60	56	63	69	71	63	63	68	70	60	61	67	71	75	74	60	58	57	61	65	69	71	65.4
Southeast Lowlands.																																	
Caruthersville	Maximum	96	101	103	101	97	90	94	90	97	90	90	99	100	94	98	93	91	102	94	100	102	102	102	102	94	84	94	100	100	101	96	96.8
	Minimum	70	70	74	76	74	74	69	68	64	71	62	67	72	72	70	73	72	74	69	74	74	74	72	74	73	70	62	65	66	69	70	70.5
Doniphan	Maximum	96	96	97	96	93	87	87	85	87	87	92	93	88	84	86	88	90	94	88	88	93	96	96	98	89	75	81	87	91	94	90	90.1
	Minimum	67	65	65	71	70	70	65	60	57	64	57	64	68	68	65	67	71	70	70	71	65	68	70	70	69	64	58	55	58	63	67	65.5
Jackson	Maximum	94	95	101	99	94	90	98	88	89	88	88	92	96	90	93	95	96	95	91	89	94	96	97	99	84	81	86	88	92	94	92	92.4
	Minimum	58	60	66	68	73	74	65	55	51	56	56	57	63	72	65	62	70	65	69	66	64	69	70	72	64	67	52	53	53	61	66	63.4
Poplar Bluff	Maximum	94	95	99	99	94	89	89	81	90	88	91	91	89	93	90	92	94	85	91	94	97	98	98	92	83	83	93	91	93	93	94	91.9
	Minimum	69	67	65	70	70	72	70	60	58	58	59	61	72	68	66	69	67	67	71	67	70	72	72	61	65	56	55	58	58	68	68	65.5
Ozark Plateau.																																	
Arcadia §§	Maximum	90	92	95	95	92	87	84	83	84	79	84	90	92	92	88	87	91	92	78	89	92	96	97	98	80	70	79	85	90	93	84	88.0
	Minimum	62	67	62	66	69	68	64	55	50	58	53	59	68	71	65	58	65	64	64	63	62	68	72	73	62	64	51	50	53	60	68	62.4
Aurora	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Birchtree	Maximum	92	90	95	92	92	87	85	81	83	79	85	89	92	89	89	88	90	84	82	89	94	96	96	101	92	76	80	83	89	92	85	88.3
	Minimum	67	64	62	67	67	68	62	57	53	60	54	63	68	68	68	67	65	66	60	67	63	67	69	70	66	59	61	56	57	65	65	63.6
Eldon	Maximum	95	90	101	91	97	91	85	86	76	82	90	91	91	87	88	90	92	96	88	95	96	100	100	90	84	74	85	84	90	90	87	89.7
	Minimum	63	62	64	63	68	67	58	60	54	58	59	60	60	66	62	58	61	66	62	57	65	67	66	72	61	50	54	52	55	59	66	61.1
Farmington	Maximum	92	90	95	91	94	88	83	81	86	77	85	90	92	85	89	90	91	91	84	88	92	96	96	95	81	78	77	81	89	92	85	87.9
	Minimum	66	67	67	70	72	69	62	59	55	61	57	63	69	67	67	62	68	67	64	64	61	72	76	68	60	62	54	55	59	67	69	64.6
Gano	Maximum	92	90	97	98	95	86	81	80	87	82	85	78	92	92	80	76	91	92	82	89	89	94	99	100	77	74	81	87	85	90	87	87.4
	Minimum	68	63	62	68	64	65	59	58	50	59	53	61	69	69	62	61	60	64	63	61	66	69	72	67	60	58	53	61	55	67	67	62.5
Hollister	Maximum	98	96	101	99	91	88	87	80	80	85	90	95	95	91	95	84	90	96	90	90	100	100	100	104	94	97	74	90	94	100	98	92.6
	Minimum	70	74	63	65	65	65	65	50	54	59	58	60	68	68	69	67	65	70	68	70	66	67	68	70	72	70	60	55	55	63	63	64.6
Koshkonong	Maximum	95	94	101	100	91	86	84	84	83	84	85	88	89	87	89	88	89	92	87	90	92	94	95	96	86	85	86	86	90	91	86	89.5
	Minimum	70	68	70	78	67	67	65	64	60	62	58	65	69	70	66	67	68	70	71	69	69	71	71	72	68	65	57	57	63	68	69	66.9
Lebanon §§	Maximum	89	87	93	93	88	81	79	77	80	81	83	87	89	79	85	83	86	89	86	89	92	95	94	97	79	70	79	83	88	90	85	85.7
	Minimum	66	64	63	65	65	61	60	61	54	54	55	57	65	71	64	63	63	61	65	66	69	67	70	72	70	58	58	55	54	60	65	62.7
Mountain Grove	Maximum	89	90	94	92	88	84	83	79	80	83	82	87	87	83	88	83	90	93	88	89	94	96	97	100	83	70	78	83	90	93	87	87.2
	Minimum	66	64	63	67	63	64	60	58	53	58	54	60	64	67	62	66	62	65	68	66	65	67	68	70	65	67	59	53	56	58	66	62.7
Neosho	Maximum	91	92	96	95	93	83	88	83	81	84	87	88	87	86	89	89	90	89	90	90	94	94	95	96	95	84	82	85	89	91	91	89.3
	Minimum	71	73	63	70	68	65	59	61	51	54	54	60	68	68	68	67	61	70	68	62	63	67	69	71	70	64	58	53	55	63	65	63.8
Rolla §§	Maximum	93	88	95	95	92	86	80	73	85	83	86	91	93	85	88	87	94	97	88	91	97	98	100	101	87	78	85	89	93	95	89	89.8
	Minimum	68	65	68	78	69	65	60	60	56	61	55	67	72	73	65	64	64	68	66	63	67	70	72	72	61	63	57	55	59	58	59	64.6
Springfield	Maximum	87	89	94	95	87	79	80	78	78	79	84	87	86	80	85	78	85	88	81	87	91	93	93	95	81	72	78	83	87	91	88	85.2
	Minimum	72	74	68	66	68	64	64	65	57	61	59	66	70	69	68	66	63	70	70	68	69	73	73	74	70	58	64	61	64	68	71	66.9
Southwest Plain.																																	
Amoret	Maximum	92	95	100	102	97	82	83	84	82	84	85	88	90	90	88	83	90	94	87	95	97	97	98	98	82	71	82	88	94	94	92	89.8
	Minimum	68	74	76	73	65	61	61	63	55	62	57	63	61	64	65	62	64	65	63	60	64	65	70	71	66	56	63	55	63	60	68	64.1
Appleton City	Maximum	90	92	98	96	90	84	83	81	84	82	86	90	90	87	83	83	89	94	87	91	96	98	98	98	85	76	80	86	91	94	91	88.7
	Minimum	79	68	69	73	70	64	63	64	58	62	60	66	71	71	69	65	64	68	65	64	68	70	71	73	66	59	66	60	61	64	70	66.5
Clinton	Maximum	94	94	99	97	98	85	81	82	85	83	87	86	92	88	87	87	92	96	88	94	97	100	99	97	90	78	86	89	93	94	87	90.6
	Minimum	69	67	66	62	65	67	62	62	65	62	57	66	69	70	62	70	64	67	65	61	68	73	75	73	61	59	64	57	57	61	69	65.0
Harrisonville §§	Maximum	91	92	97	91	90	83	84	80	82	77	86	89	90	88	86	84	91	97	87	93	97	99	99	95	77	71	80	86	91	94	85	88.2
	Minimum	68	64	68	70	75	65	61	60	58	60	60	67	67	68	67	65	65	68	62	63	67	68	71	73	63	57	59	68	61	65	66	65.1
Lamar §§	Maximum	90	93	98	98	91	84	84	82	81	83	87	90	90	86	90	78	85	92	89	89	94	95	96	99	85	75	82	88	91	93	93	88.7
	Minimum	66	72	66	68	67	63	61	62	55	56	57	64	67	66	70	67	65	64	68	62	65	69	70	71	68	60	59	55	57	62	65	64.1
Lamonte	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Marshall	Maximum	92	92	97	94	88	84	82	79	85	93	83	89	89	85	85	85	89	95	84	90	94	97	100	91	81	72	83	87	91	95	90	88.5
	Minimum	68	68	66	70	68	65	61	58	53	59	57	63	59	66	65	62	66	69	59	68	69	68	68	71	64	58	58	57	56	60	61	63.3
Warrensburg	Maximum	98	92	99	99	94	82	81	80	87	81	88	95	92	87	87	89	92	95	....	94	98	101	102	96	82	73	83	88	93	95	85	[a]90.5
	Minimum	59	70	74	69	66	63	63	59	62	60	68	68	69	67	64	67	71	62	....	68	71	73	75	63	59	59	60	61	67	71	63	[a]65.7
Warsaw	Maximum	92	91	96	97	9[illegible]	85	82	80	84	81	85	91	90	85	86	85	90	95	85	91	94	96	96	97	85	74	82	85	91	93	87	88.4
	Minimum	68	66	64	72	68	64	62	62	52	60	56	60	69	71	65	60	62	65	66	59	61	67	67	72	60	60	66	54	55	59	67	63.3
Northwest Plateau.																																	
Chillicothe §§	Maximum	91	93	98	94	92	83	84	80	84	81	88	92	92	85	85	88	92	95	83	93	94	96	98	89	70	80	85	88	93	95	88	88.8
	Minimum	67	65	68	69	68	65	68	58	57	57	58	65	67	65	61	62	66	68	59	61	67	69	69	72	64	60	54	56	60	64	70	63.8
Grant City	Maximum	88	90	94	90	81	73	81	80	74	83	86	83	91	85	84	85	92	91	90	93	95	95	101	91	79	77	84	89	95	94	88	87.2
	Minimum	63	63	72	68	65	63	58	55	53	55	56	65	68	64	58	61	65	66	61	58	69	68	69	71	59	59	55	59	62	66	69	62.8
Kansas City	Maximum	92	91	95	93	90	80	83	79	81	80	84	89	91	82	80	82	89	93	82	91	91	95	98	88	72	70	79	85	89	91	81	86.1
	Minimum	66	70	70	76	69	66	65	61	64	59	61	67	66	67	67	68	70	73	63	67	74	76	77	72	63	58	61	65	70	72	68	67.5
Kidder §§	Maximum	90	92	96	93	87	78	81	78	79	83	82	89	88	80	80	82	87	91	80	88	91	93	95	88	65	75	80	84	88	90	85	85.1
	Minimum	66	64	67	70	67	63	59	56	56	56	57	61	65	66	62	62	65	68	67	58	63	72	72	71	63	58	54	56	61	62	68	63.1
Lexington §§	Maximum	93	92	95	96	90	84	84	80	83	83	87	92	90	88	84	84	90	94	84	90	93	95	99	93	75	73	81	86	90	92	85	88.0
	Minimum	68	66	70	74	68	65	63	60	60	60	58	66	68	67	65	62	68	72	61	62	71	72	75	75	66	60	56	58	60	65	71	65.5
Maryville §§	Maximum	90	91	95	94	80	78	86	79	80	83	83	87	90	77	85	86	91	93	87	93	95	95	101	90	75	78	82	87	92	92	89	87.0
	Minimum	65	62	64	65	65	69	55	54	54	53	56	63	65	64	55	55	64	64	54	54	64	68	68	67	63	58	49	51	56	62	66	60.1
Oregon	Maximum	88	88	92	93	86	75	81	79	80	82	83	88	89	82	82	85	89	91	83	88	91	91	97	88	80	77	81	84	89	90	84	85.7
	Minimum	64	60	66	71	63	58	55	54	57	54	58	65	65	63	58	61	66	65	55	61	66	68	68	63	60	57	53	57	59	65	65	61.5
St. Joseph	Maximum	92	93	95	95	89	79	81	79	78	82	85	90	91	80	85	86	91	93	86	91	94	96	100	91	72	77	82	85	90	92	86	87.3
	Minimum	70	68	70	75	65	64	62	59	60	57	63	70	69	68	64	65	70	69	61	67	72	74	75	72	62	60	57	59	65	70	68	66.1
Trenton	Maximum	91	87	91	90	88	80	81	77	83	81	84	88	89	84	81	84	90	90	89	87	91	94	96	90	80	77	80	84	90	91	87	86.0
	Minimum	67	65	70	70	67	65	62	58	62	59	61	65	68	65	60	63	68	70	60	63	71	72	73	74	62	62	58	62	65	68	72	65.4

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.


Scale of Shades.
0 to 1 inch.
1 to 2 inches.
2 to 4 inches.
4 to 6 inches.
Over 6 inches.
NO RAIN
Edmonton
Battleford
Prince Albert
Calgary
Medicine Hat
Qu'Appelle
Swift Current
Winnipeg
Helena
Miles City
Salt Lake City
Grand Junction
H B

Daily Evaporation (inches) and Wind Movement (miles) for July, 1920, at Columbia, Mo.

Date.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mo.
Columbia*	Evaporation	.157	.293	.264	.265	.231	.176	.215	.262	241	.201	.141	.236	.205	.203	.115	.269	.181	.223	.314	.280	.245	.234	.270	.325	.381	.175	.076	.215	.239	.122	.254	7.011
	Wind movement	16	33	26	24	23	24	39	36	36	26	14	18	26	32	17	26	14	18	42	33	16	16	24	32	49	44	13	18	14	20	18	787
University of Mo.†	Evaporation.....	.378	.372	.210	.402	.222	.261	.321	.316	.215	.208	.311	.243	.205	.187	.270	.281	.264	.362	.343	.275	.287	.349	.392	.386	.341	.079	.226	.273	419	.325	.267	9.080
	Wind movement	46	83	37	75	72	78	90	82	31	50	44	62	83	53	40	41	4	59	63	44	79	28	33	58	81	54	33	30	45	45	25	1,684

*Observations taken at 6.45 a.m. †Observations taken at 5.30 p.m. **Included in next following measurement. Both stations are located on the University grounds; one on the West Campus and the other about one mile southeast on the Experiment Farm. To prevent confusion of records the former will be known as "Columbia" and the latter as "University of Missouri." The equipment is the same in both cases (see Annual Summary, 1919); but the Experiment Farm station has a freer exposure to sun and wind.

DAMAGING STORMS.

July 1.— A thunder squall wind of 55 miles an hour at Kansas City broke the branches of many trees, which in frequent instances fell across public utility wires and cables causing considerable damage and inconvenience. At Warrensburg "the worst storm in years occurred from 7:30 p. m. to about 10 p.m." No damage reported.

July 6.— A thunder squall wind damaged large trees and several buildings at Brunswick.

July 7.— At 10:30 p. m. what may have been a small tornado caused damage estimated at $5,000 to $8,000 near Withers Mills, Marion County. The storm moved from northwest to southwest, in a path about one mile wide. Some trees on the south side of the path fell toward the southwest. Heavy hail fell over a small area with the wind storm.

July 10 and 24.— In Dent County there were damaging wind and hail storms, the one on the 10th being especially severe in the southwestern part of the county. Damage to crops was the most important item, though orchards and other trees, and sheds were damaged to quite an extent.

July 22.— A thunder squall and light hail caused minor damage in southwestern Cape Girardeau County.

OBSERVERS' REMARKS.

Brunswick.— Strong wind on the 6th, damaging large shade trees and buildings.

Gorin.— Cool month especially at night.

Macon.— Threshing going on at full swing. Corn needs rain although not suffering.

St Catherine.— Corn looks fine but is in need of a good rain. Hay was put up in fine shape.

Warrenton.— A dry hot month with a few light showers. The one of the 31st has done the most good but was too late to benefit some of the crops.

Jackson.— Severe thunderstorm with hail and electrical discharges on the 22d.

Farmington.— The most severe thunderstorm of the season occurred on the 24th. July was a fine summer month and made amends for June. The rains although moderate came in a good time and the heat was not excessive. Wheat and grass were good.

Gano.— There was a severe hail and rain storm in the south part of the country about the 10th, doing much damage. A wind storm on the 24th did much damage to orchards and out buildings.

Houston.— Everything is looking good since the rains of the 26th and 31st but the corn is cut a little short in this section. Gardens have suffered more than the corn. Pastures were getting short.

Lebanon.— Fine prospect for corn.

Lockwood.— Weather very favorable for threshing. Corn is needing rain and pastures are getting short. All farm work is up and plowing is well advanced for fall wheat. Rain needed badly.

Appleton City.— The month was favorable for farm work, but the last part was too dry for best results. Wheat crop good quality; oat crop fair. Corn is doing well but needs more rain. Pastures fair.

Warsaw.— The month has been ideal with no intense heat and plenty of moisture. Corn and pastures are fine. Threshing progressing and hay all in. Fall plowing begun.

Avalon.— This month has been very favorable for threshing and harvesting. Corn has done well but will need rain shortly. Pastures are getting short and dry.

Bethany.— One and twenty three hundredths inches of rain fell in fifteen minutes on the 18th with strong wind and lightning.

Edgerton.— Corn crop looking fine. Wheat very good; about 18 to 20 bushels to the acre. Fine weather for harvesting.

Grant City.— Wheat, oats, and hay all harvested with fair yields. Wheat testing 60 and above. Corn prospect good but needs rain.

Lexington.— Past month favorable in every respect.

NMS

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

MISSOURI SECTION

IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

AUGUST, 1920

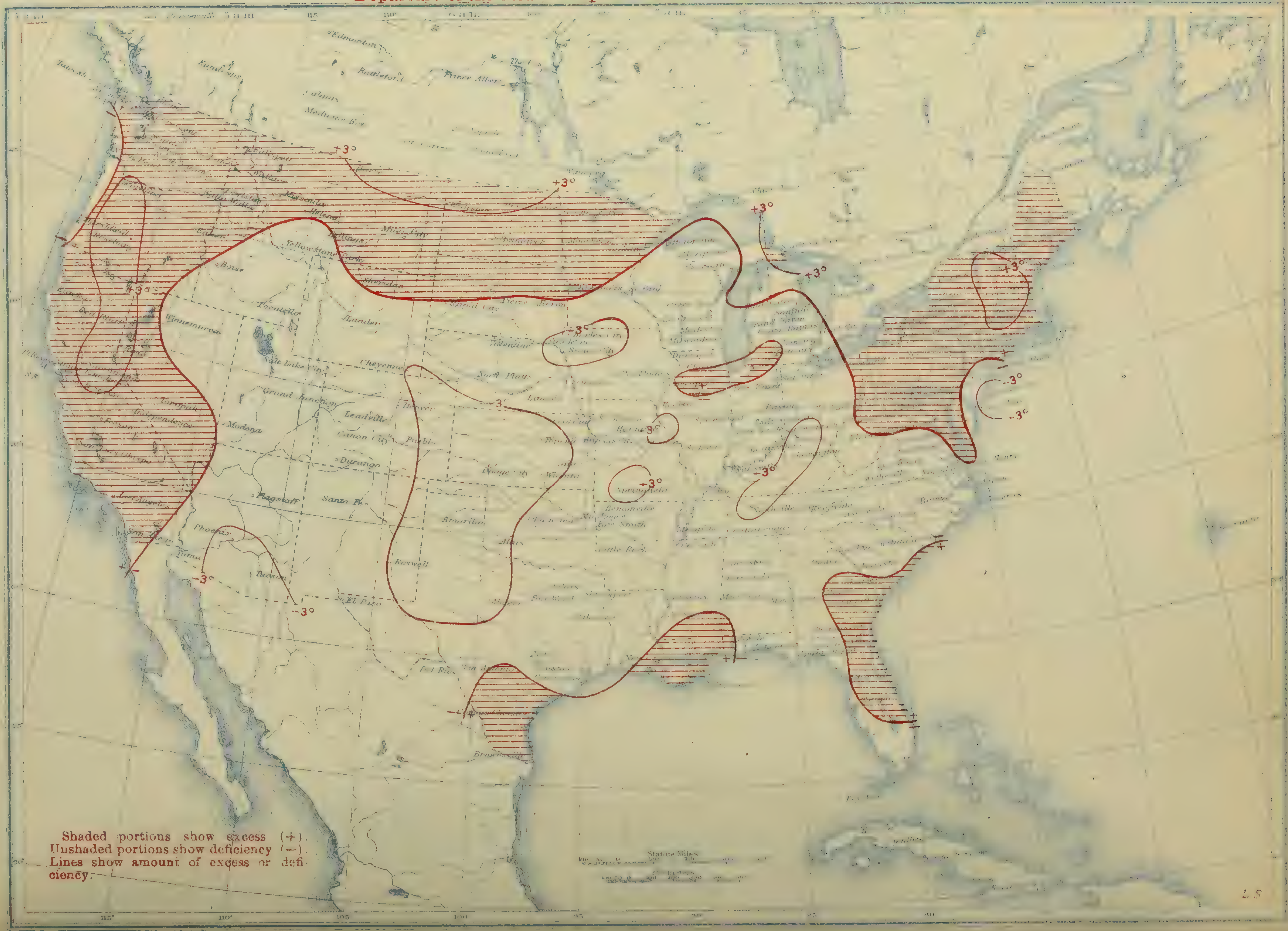
BY

GEORGE REEDER

METEOROLOGIST

COLUMBIA, MO.
WEATHER BUREAU OFFICE
OCTOBER 19, 1920

Departure of the Mean Temperature from the Normal, August, 1920.



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXIV. Columbia, Mo., August, 1920. No. 8.

GENERAL SUMMARY.

The prevailing weather during August, 1920, in Missouri, was mostly cool, and cloudy, with some drouthy conditions during the first half and rather frepuent rains the latter half of the month. Altogether, it was a pleasant summer month.

As a rule, rains falling after the 10th of August, following drouth, are not of the highest value to corn; but as much corn was planted late because of the cool, wet spring, and early part of June, the rains of this August, falling as late as they did, were very helpful to corn, and of course to all vegetation not yet matured. At the close of the month corn was making satisfactory progress, and was in good condition, except in the east-central section where it had been damaged by drouth. Preparation for wheat sowing made good progress; and, as a rule, farm conditions generally were satisfactory.

Local wind and hail storms occurred in St. Louis County on the 7th; Saline on the 14th, and in Cass, and Bates counties on the 30th.

TEMPERATURE.

The monthly mean for the State, as determined from the records of 65 stations, was 73.1°, or 3.3° below normal. This is the third cool August of record, though about 3.3° warmer than the same month in 1915, the coolest in thirty years. All sections of the state were cooler than the normal, the largest deficiency, about 4°, occuring in the southwestern plain, and Ozark Plateau. Warm and cool periods alternated, the latter being somewhat longer as a rule, The warmest days covered the period from the 6th to the 10th, when maxima ranged well into the 90's, with the 100° value occuring at a few stations. The last ten days were the coolest of the month, the minimum temperatures ranging in the low 40's, but still several degrees above the low record of this month. The average number of days with maximum of 90° or higher was only five.

PRECIPITATION.

The average precipitation for the State, 77 stations reporting, was 4.78 inches. The departure from the normal for 71 stations having 10 or more years' record was plus 0.89 inch. This was the wettest August since 1915, all though the rainfall was slightly below normal in the northwestern plateau, and southeastern lowlands, and also in about 10 or 12 counties lying in the east-central section. There was a marked excess in the Ozark Plateau, and southwestern plain. Rather drouthy conditions prevailed during the first half of the month, though there were some heavy local showers; on and after the 19th showers were frequent, heavy, and quite general. The greatest local amount was 10.47 inches, at Osceola, and the least was 0.96 inch, at Maryville. The greatest amount in any 24 consecutive hours was 5.77 inches, at Seymour on the 20th.

WIND.

The prevailing winds were from the southeast. The average movement based upon records of eight well placed stations equipped with anemometers, was 4,792 miles, or 6.4 miles an hours, and about 6 per cent less than the average. There was some local wind damage, for which see special article.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine for the State, based upon the records of six stations equipped with sunshine recorders, was 288, or 68 per cent of the possible and about 4 per cent below normal.

MISCELLANEOUS PHENOMENA.

Fog, dense. — 10th, 13th, 14th, 21st, 24th, 26th, and 27th.

Hail. — 30th, and 31st.

Halos, solar. — 4th, 11th, 15th, 20th, 22d, 26th, 30th, and 31st. Lunar, 31st.

Thunderstorms. — General, 7th, 8th, 9th, 12th, 29th, 30th, and 31st. Local. — 6th, 10th, 11th, 13th, 14th, 15th, 21st, 25th, and 28th.

DAMAGING STORMS.

August 7. — A hail and wind storm caused some damage to shrubbery, gardens, and the telephone and electric light systems in the southern and southwestern parts of the City of St. Louis. A few trees were blown down.

August 14. — At 3 p.m. damaging hail fell over an area four miles long and three-fourths mile wide in the vicinity of Miami, Saline County. Corn was stripped of leaves, and it is estimated that 250 acres were damaged to the extent of 75 per cent of the yield.

August 30. — Severe hail and wind storms, accompanied by terrific thunder and lightning, crossed Bates and Cass counties in the afternoon. Southwest of Harrisonville corn was blown flat, a silo and windmill were wrecked, and a barn unroofed. Windows of a passing train were broken by hail. In Bates the damage was confined to crops.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Max. velocity. Direction.	Max. velocity. Date.
Columbia	30.00	88	56	256	61	3,789	5.1	26	n.	31
Hannibal	30.02	83	......	......	......	4,242	5.7	27	s.	6
Kansas City	30.00	78	55	320	75	6,130	8.2	28	n.	20
St. Joseph	30.00	83	53	323	76	4,220	5.7	35	w.	31
St. Louis	30.00	75	58	258	61	6,404	8.6	46	sw.	8
Springfield	30.02	87	69	269	64	5,584	7.5	40	n.	31
Cairo, Ill	30.01	88	68	......	......	4,396	5.9	34	n.	31
Keokuk, Iowa	30.03	77	55	300	71	3,568	4.8	35	w.	31

COMPARATIVE DATA FOR JULY.

Year.	Temperature.				Precipitation.				Number of Days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly Cloudy.	Cloudy.
1888	74.0	−1.6	110	48	7.25	−3.80	......	0	11	......	......	......
1889	73.5	−2.1	101	52	1.96	−1.49	......	0	14	......	......	......
1890	73.3	−2.3	104	49	4.84	+1.39	......	0	9	......	......	......
1891	73.2	−2.4	108	38	5.34	+1.89	......	0	8	......	......	......
1892	74.3	−1.3	100	40	2.42	−1.03	4.55	0	6	17	8	6
1893	72.8	−2.8	100	40	2.20	−1.25	5.66	0	4	18	10	3
1894	77.0	+1.4	111	39	1.58	−1.87	3.07	0	5	14	16	1
1895	75.3	−0 3	104	48	4.23	+0.78	3.50	0	8	15	11	5
1896	76.6	+1.0	108	41	3.25	−0.20	4.80	0	6	17	10	4
1897	74.1	−1.5	108	41	2.39	−1.06	5 00	0	6	19	9	3
1898	75.8	+0.2	103	44	3.03	−0.42	4.75	0	5	17	10	4
1899	78.8	+3.2	107	49	3.35	−0.10	4.28	0	7	18	10	3
1900	80 3	+4.7	105	52	3.51	+0.06	2.77	0	6	19	9	3
1901	78.4	+2.8	109	47	1.88	−1.57	4.33	0	5	19	9	3
1902	75.0	−0.6	103	47	6.16	+2.71	7.84	0	10	14	11	6
1903	74.4	−1.2	102	43	5.40	−1.95	6.40	0	10	16	11	4
1904	73.7	−1.9	100	43	5.46	+2.01	4.43	0	8	16	10	5
1905	76.4	+0.8	102	48	4.69	+1.24	3.94	0	8	19	7	5
1906	76.6	+1.0	101	40	4.72	+0.27	3.55	0	11	14	10	7
1907	77.3	+1.7	109	47	3.71	+0.26	6.30	0	9	17	8	6
1908	76.4	+0.8	102	46	3.87	+0.42	4.00	0	8	17	9	5
1909	79.5	+3.9	110	40	0.55	−2.90	14.21	0	2	24	6	1
1910	74.7	−0.9	103	40	2.77	−0.68	5.80	0	6	15	9	7
1911	75.4	−0.2	109	41	4.20	+0 55	5.17	0	7	15	8	8
1912	76.2	+0.6	104	41	4.19	−0.74	2.62	0	9	17	8	6
1913	82.8	+6.9	110	41	1.06	−2.51	3.51	0	3	22	7	2
1914	78.0	+1.8	106	49	4.25	+0.60	8.50	0	9	15	9	7
1915	69.8	−6.5	98	37	7.86	+4.15	8.20	0	12	12	9	10
1916	79.2	+2.9	107	41	4.05	+0.49	6.48	0	7	19	7	5
1917	73.3	−2.9	104	38	4.45	+0.94	5.20	0	9	16	8	7
1918	81.8	+5.8	111	45	3.34	−0.27	3.42	0	8	17	9	5
1919	75.7	−0.5	106	44	4.29	+0.49	7.00	0	8	17	9	5
1920	73.1	−3.0	102	43	4.78	+0.89	5.77	0	9	15	8	8

Climatological data for August, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	39	74.2	+0.8	95	8†	51	24†	34	5.27	+1.40	1.50	0	10	16	0	15	ne.	O. K. Benecke.
Clifton Hill	Randolph	731	21	74.5	−1.4	96	17	48	24	35	4.92	+2.08	2.00	0	7	22	7	2	...	L. S. Harlan.
Columbia	Boone	784	31	73.0	−1.7	92	18	48	24	28	3.50	+0.46	1.48	0	7	12	10	9	se.	U. S. Weather Bureau.
Fayette	Howard	725	41	71.9	−4.3	92	6	47	24	33	5.08	+2.00	1.84	0	8	21	5	5	...	L. W. Jacobs, jr.
Fulton	Callaway	818	33	73.2	−3.1	93	6†	45	24	34	4.06	+0.76	1.71	0	8	13	12	6	sw.	Westminster College.
Gorin	Scotland	700	32	...	...	...	...	...	...	...	2.91	−0.13	1.40	0	7	14	7	10	sw.	J. W. Pulliam.
Hannibal	Marion	534	37	72.4	−2.6	93	6	48	24	30	3.05	−0.33	0.90	0	9	14	8	9	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	37	73.6	−3.2	95	6†	49	24	33	6.35	+3.39	2.90	0	10	15	13	3	s	Miss Emma Swift.
Kirksville	Adair	969	38	71.5	−2.3	93	6	50	24	32	2.08	−1.17	0.86	0	6	22	8	1	s.	Prof. J. S. Stokes.
Louisiana	Pike	469	39	72.4	−2.3	94	7	45	2	40	4.81	+1.21	1.81	0	6	20	5	6	n.	J. T. Farrell.
Macon	Macon	875	26	74.0	−2.7	98	10	48	24	35	6.21	+3.31	2.34	0	7	19	5	7	e.	W. C. Brown.
Mexico	Audrain	797	41	73.7	−2.4	99	6	44	24	39	2.27	−0.87	0.68	0	9	16	3	12	e.	Mrs. Abbie Snoddy.
Oakfield	Franklin	793	38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	E. E. Steines.
Palmyra	Marion	652	20	72.8	−3.9	97	6	43	24	35	1.18	−2.50	0.46	0	6	13	8	10	se.	W. B. Markell.
St. Catherine	Linn	850	9	72.0	...	93	10†	48	24	32	3.24	...	1.16	0	10	11	18	2	se.	L. D. Baker.
St. Charles	St. Charles	456	41	74.5	−2.0	99	6	50	24†	36	6.05	−2.61	1.67	0	8	12	8	11	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	83	75.1	−2.1	92	6	56	23	23	4.16	+1.50	1.18	0	10	9	16	6	s.	U. S. Weather Bureau.
St. Louis (2)	do.	578	8	74.3	−3.3	93	6	54	24	26	3.65	...	0.87	0	11	12	12	7	se.	St. Louis University.
Shelbina	Shelby	779	27	...	...	...	...	...	...	...	3.35	+0.71	1.00	0	6	...	...	...	...	S. G. Parsons.
Steffenville	Lewis	650	26	73.4	−3.1	100	5	44	24	40	2.05	−1.54	0.70	0	7	10	19	2	ne.	Frank Hall.
Unionville	Putnam	1,072	27	71.0	−4.3	94	7	47	24	38	1.76	−2.22	0.75	0	5	10	8	13	sw.	Geo. W. Davis.
Warrenton	Warren	865	38	73.9	−2.5	97	6†	50	24	34	4.34	+1.25	1.93	0	9	6	13	12	n.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	48	73.4	−1.2	93	6	51	24	28	0.88	−2.36	0.50	0	6	6	15	10	ne.	U. S. Weather Bureau.
Section means and	extremes	...	...	73.2	−2.5	100	5	43	24	40	3.69	+0.22	2.90	0	8	14	10	7	s.	
Southeast Lowlands.																				
Caruthersville††	Pemiscot	220	29	80.8	+1.3	102	6	57	24	40	3.33	−0.19	1.18	0	10	17	10	4	e.	H. E. Averill.
Doniphan	Ripley	344	16	74.2	−3.4	94	7	47	27	41	2.35	−2.17	0.75	0	7	14	11	6	s.	W. W. Martin.
Jackson	Cape Girardeau	458	30	73.2	−3.1	93	6	46	25	39	3.62	+0.06	1.44	0	12	6	9	16	s.	John J. Putz.
Marble Hill	Bollinger	420	26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	F. W. Wells.
Patton (near)	Bollinger	500	10	...	...	...	...	...	...	...	6.69	+1.37	2.64	0	7	...	...	...	...	George F. Ellis.
Poplar Bluff	Butler	339	16	75.8	−2.3	95	7†	51	23†	39	5.20	+1.21	1.81	0	9	21	2	8	...	Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill	359	45	75.1	−1.9	90	6	57	24	26	2.48	−0.45	1.39	0	12	9	7	15	ne.	U. S. Weather Bureau.
Section means and	extremes	...	...	75.8	−1.9	102	6	46	25	41	3.94	−0.03	2.64	0	10	13	8	10	s.	
Ozark Plateau.																				
Arcadia	Iron	925	42	70.6	−4.0	92	29	46	24	41	5.74	+2.06	2.18	0	14	8	9	14	w.	Arcadia College.
Aurora	Lawrence	1,370	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	C. D. Sprague.
Birchtree	Shannon	1,078	26	72.2^{b}	−3.9	90	5†	50	23	32	3.44	−1.06	0.72	0	9	15^{b}	8^{b}	6^{b}	sw.	V. H. Kirkendall.
Bolivar	Polk	1,071	33	72.8	−4.3	92	6†	50	24	32	6.31	+2.70	2.10	0	13	14	10	7	ne.	K. H. Brown.
Cassville	Barry	1,475	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	R. H. Wallen.
Dean	McDonald	1,000	21	...	...	89	7	50	15	33	7.73	+3.65	3.41	0	8	18^{a}	5^{a}	7^{a}	w.	H. E. Dean.
Eldon	Miller	934	21	71.7	−4.9	95	8†	45	25	37	4.38	+0.42	1.17	0	10	4	18	9	s.	E. H. Shepherd.
Farmington	St. Francois	918	23	72.2	−2.7	91	7	50	24	34	6.05	+2.77	1.90	0	11	11	14	6	sw.	Robert Forsyth.
Gano	Dent	1,250	18	70.8	−5.7	91	29	48	24	34	9.06	+4.84	2.22	0	10	12	10	9	s.	A. C. Leach.
Goodland	Iron	1,000	27	70.6	−4.0	92	29	45	2†	44	5.26	+1.27	2.00	0	10	10	12	9	s.	F. M. Adams.
Hollister	Taney	735	17	75.3	−2.7	96	7	50	4	43	5.70	+1.76	2.60	0	8	15	0	16	se.	W. P. Chapmann.
Houston	Texas	1,280	27	72.6^{c}	−4.5	90	6	48	24	32	6.57	+2.89	1.30	0	8	16	6	9	se.	R. F. Harmon.
Koshkonong	Oregon	958	19	74.2^{c}	−3.6	95	6	53	24	40	5.46	+0.93	1.55	0	8	11^{c}	7^{c}	10^{c}	sw.	R. M. Hitt.
Lebanon	Laclede	1,265	32	70.8	−5.7	90	6	49	24†	31	5.37	+1.92	1.20	0	11	20	4	7	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	24	74.0	−3.4	92	7†	53	22†	31	5.91	+1.73	3.38	0	4	16	5	10	se.	C. S. Crow.
Mountain Grove	Wright	1,490	23	71.6	−3.8	90	7	49	24	31	5.98	+1.59	1.93	0	9	7	7	17	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	73.4	−3.6	93	28	50	22	37	4.84	+0.71	1.02	0	9	16	8	7	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,139	36	73.6	−2.2	93	7†	53	24	37	5.58	+1.55	3.46	0	11	10	18	3	sw.	Prof. Elmo G. Harris.
Seymour	Webster	...	...	71.5^{a}	−3.8	...	...	49	24	...	...	...	5.77	0	...	...	...	...	s.	Ira H. Hailey.
Springfield	Greene	1,350	42	72.4	−2.4	88	7	56	24	25	6.31	+2.00	2.14	0	13	14	14	3	se.	U. S. Weather Bureau.
Section means and	extremes	...	...	72.4	−3.8	96	7	45	2†	44	5.87	+1.87	5.77	0	10	13	9	9	s.	
Southwest Plain.																				
Amoret	Bates	831	13	73.1	−3.6	96	7	52	22†	37	10.21	+6.65	2.40	0	10	15	4	12	s.	Darby Fruit Farm.
Appleton City	St. Clair	853	28	73.8^{a}	−4.2	93	7	54	24	28	8.15	+4.57	1.82	0	12	15^{a}	9^{a}	6^{a}	se.	W. G. Bigelow.
Clinton	Henry	765	33	74.7	−2.2	96	18	52	24	33	6.04	+2.83	1.60	0	9	16	9	6	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	912	44	71.8	−4.0	96	7	52	22	31	4.70	+0.61	1.24	0	10	13^{a}	8^{a}	9^{a}	se.	John H. Patterson.
Lamar	Barton	980	39	73.8	−3.8	94	7	52	2†	32	4.77	+0.56	1.04	0	11	19	7	5	s.	Joe W. Springer.
Lamonte	Pettis	863	33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	W. D. Wade.
Marshall	Saline	779	31	72.8	−3.6	98	8	50	24	38	5.03	+1.45	2.29	0	8	17	9	5	sw.	Dr. W. H. Black.
Nevada	Vernon	860	28	73.0	−4.1	93	7	52	22	29	5.08	+1.68	1.70	0	11	17	8	6	n.	George A. Kaupp.
Warrensburg††	Johnson	883	42	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	S. I. Major.
Warsaw	Benton	715	25	73.0	−4.7	94	6†	48	24	34	5.06	+1.05	1.25	0	9	11	19	1	e.	J. R. Smith, M. D.
Section means and	extremes	...	...	73.2	−3.8	98	8	48	24	38	6.13	+2.42	2.40	0	10	15	10	6	s.	
Northwest Plateau.																				
Avalon	Livingston	730	30	75.0	−1.6	99	6	51	24	34	3.30	−0.23	1.55	0	6	23	7	1	sw.	F. G. Ashbaugh.
Bethany	Harrison	916	28	72.4	−2.3	97	6	46	22	37	3.81	−0.18	1.20	0	8	15	10	6	nw.	M. H. Moulton.
Chillicothe	Livingston	768	15	73.4	−2.5	97	8†	48	24	38	4.52	−0.33	1.24	0	9	22	0	9	se.	G. L. Fellinger.
Conception	Nodaway	982	35	73.8	−0.3	96	6†	51	22	32	2.69	−0.98	2.09	0	4	13	11	7	nw.	Fr. Adelhelm Hess.
Edgerton	Platte	856	...	71.7	...	96	8	47	22	42	4.97	...	2.63	0	7	21	4	6	s.	Fred L. Stiff.
Grant City	Worth	1,134	29	71.9	−3.1	96	6	50	22†	32	3.66	−0.04	0.95	0	6	22	3	6	nw.	J. F. Hunter.
Kansas City	Jackson	963	31	73.7	−2.1	93	8	57	22	24	3.11	−1.64	2.19	0	10	16	10	5	se.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	33	72.5	−3.0	92	6†	51	22	36	6.72	+2.88	3.10	0	9	16	9	6	sw.	Linn Terry.
Lexington	Lafayette	688	38	73.0	−3.1	92	8†	51	24	32	4.61	+1.45	1.93	0	9	19	0	12	s.	J. W. Keithley.
Liberty	Clay	864	30	73.7	−2.9	94	7†	52	24	37	5.28	+1.53	2.37	0	7	16	9	6	se.	James H. Harris.
Maryville	Nodaway	1,036	30	70.8	−2.9	96	10	46	22	35	0.96	−3.10	0.43	0	5	22	3	6	n.	J. R. Brink.
Oregon	Holt	1,048	64	70.9	−4.2	91	6†	49	22	30	3.47	−0.62	1.80	0	6	16	9	6	se.	Tom Curry.
St. Joseph	Buchanan	967	46	73.3	−4.1	94	10	51	22	29	1.95	−1.71	0.75	0	7	20	5	6	se.	U. S. Weather Bureau.
Tarkio ††	Atchison	976	27	71.7	−4.2	93	5	50	23	32	3.23	−0.81	1.90	0	6	22	3	6	sw.	John F. Frazier.
Trenton	Grundy	822	25	72.5	−2.6	91	6†	51	22	29	5.79	+2.19	1.57	0	8	23	6	2	se.	W. H. Estes.
Section means and	extremes	...	...	72.7	−2.8	99	6	46	22	42	3.87	−0.11	3.10	0	7	19	6	6	se.	
State means and	extremes	...	...	73.1	−3.0	102	6	43	24	44	4.78	+0.89	5.77	0	9	15	8	8	se.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Oakfield. Pacific. R. F. D. No. 1: of Dean. Anderson: of Gano. Salem. R. F. D. No. 5.

Daily precipitation for August, 1920.

Stations.	Watersheds.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville ‖	Missouri	.20							1.00	.50	.06		T.	.22						.21	.56	2.30				T.			.15	.84	.12	T.	6.16
Brunswick ‖	Grand	1.06								.07				.12						.20	.87	1.01					.17			.10	1.50	.17	5.27
Clifton Hill	Chariton									.06			.66							.60	.46								.68		.46	2.00	4.92
Columbia***	Missouri							.06		.08			T.	T						.80	1.36					T.			T.	.70	.26	.24	3.50
Fayette	....do							.08		.11			1.23							.83	1.84								.26	.60		.13	5.08
Fulton	....do								.03	T.			.30	T.						.27	1.03	1.71					.07			.35	.30		4.06
Glencoe ‖	Meramec																																......
Gorin	Mississippi									1.40			.29	.06						.03	.40	T.							.08			.65	2.91
Hannibal***	....do							.10		.12			.15							.06	.75					T	.10			.03	.90	.84	3.05
Hermann ‖	Missouri	.20							.08		.02										.20	1.30	.02				.12			.50	.07		2.51
Jefferson City ‖	....do	.58							.08	.10				.78							.57	2.90	.40				.20			.59		.15	6.35
Kirksville	Mississippi									.02			.86							.37	.12								T.	.06		.65	2.08
Louisiana	....do								.98				T.	1.81						T.	.26	.16				T.					1.30	.30	4.81
Macon ‖	Chariton	T.								.23				.58							.86	.72								.21	1.27	2.34	6.21
Mexico ‖	Mississippi	.21						.68						.01			T.				.26	.48				T.			.20	.23	.10	.10	2.27
Pacific ‖	Meramec							.07	.16	.76	.15					.18	.02					.68	T.				.32			.50	.29		3.13
Palmyra ‖	Mississippi	.04									T.			.03			T.				.27	.46								T.	.20	.18	1.18
St. Catherine	Grand							.28	.05	.12			1.16	.01						.22	.60	.01					T.			.04	T.	.75	3.24
St. Charles	Missouri								.50							1.67					.21	.69				.19				.83	.30	1.66	6.05
St. Louis (1)***	Mississippi							.44	.26	.15		T.			T.	1.18					.23	.06				T.	.31			.59	.26	.68	4.16
St. Louis (2)	....do							.42	.10	.14						.67	T.				.28	.03				.05	.25			.61	.23	.87	3.65
Shelbina	....do								.16				.30							.57	.62										.70	1.00	3.35
Steffenville	....do									.20			.25	.13		T.				.35	.12										.30	.70	2.05
Union ‖	Meramec								.28	1.95	.04										.02	1.57					.45			.27	.28		4.86
Unionville	Chariton							T.		.15			.35	T.						.06		.45								.75		T.	1.76
Valley Park ‖	Meramec								.40	.21	T.					.25	.06				T	.26					.39			.45	.83	.24	3.09
Warrenton ‖	Mississippi								.15		.02			T.		.45					.31	1.93	T.				.05			1.08	.16	.19	4.34
Keokuk, Iowa***	....do					T.				.26			.02	.01						T.	.06	T.							T.		.03	.50	0.88
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi	.04							.37	1.19	.07			.05		.30	.21					.03	.02				.20	.05		.04		.64	3.21
Caruthersville	....do	.07						.45	.04	T.	.45		1.18		.50	.22						.22							.14		.06		3.33
Doniphan	Black								.75	T.			.65	T.	.15	.10					.07						.61		T.	.02	T.	T.	2.35
Jackson	Mississippi				.20				1.44	.20	.04		.04			.17						.03					.26		.02	.09	.98	.15	3.62
Marble Hill	....do																																......
New Madrid ‖	....do	.11	.01						.12	.11		.13		.41	.04	2.05	.14						.28								.04	T.	3.44
Patton (near)	....do								2.64	.96	.91					.44											.88				.57	.29	6.69
Poplar Bluff ‖	Black	.11							.18	1.81	T.	.16		.90	.86	.64	.45					T.	.09				T.			T.	T.	T.	5.20
Cairo, Ill.***	Mississippi	T.						.34	.02	.01	.14		.11	.01	1.14	.25	T.				T.	.09					T.		T.	.04	.30	.03	2.48
Ozark Plateau.																																	
Arcadia ‖	St. Francis	.67	.02				T.	.07	2.18	.19	.02	T.		.30		.10	.01					.51					.95	.60		.11		.01	5.74
Aurora	White																																......
Birchtree	Black	.72						.25		.10		.50			.32					.64							.60				.20	.11	3.44
Bolivar	Osage	2.10							.04	.25			.70	T.					T.	.20	.70	.07				1.08	.15		.07	.45	.20	.30	6.31
Cassville	White																																......
Dean	Neosho	2.11								.58			.04							T.		3.41				.22	1.19	.15	T.		.03		7.73
Eldon	Osage	.04					T.	.08					.20							.14	1.17	.76				.28				1.04	.35	.32	4.38
Farmington	St. Francis						T.	.88	.24	.02	.06		.20				.12				.40	1.90					.91			.46	T.	.86	6.05
Gano	Meramec					T.	.06		1.42	T.			2.22		.10	1.49				T.	.71	.10					1.99			.91	T.	.06	9.06
Goodland	Black								.83	.10			.67		.11	.04					1.24	10					2.00			.15	.02		5.26
Hollister	White								.90	.35		.15	.75							.70						1.60	1.00					.25	5.70
Houston	Gasconade	T.				.68	.67		.81	T.			1.21	1.04							.51	T.					1.30		T.		T.	.35	6.57
Koshkonong	Black	.45							T.				.62		.55						.52					.05	1.55		1.52		.20		5.46
Lebanon ‖	Osage	.36						.64	.36	.10	.05			.97							1.20	.04					.63			1.00	T.	.02	5.37
Lockwood	....do							.95			3.38										.42						1.19						5.94
Mountain Grove ‖	White	.59					.12	T.		1.30	.16			.48		.16					1.12						1.93			.12			5.98
Neosho	Neosho	1.02					T.			.68			.02						T.	.80	.66	.68				T.	.68	.17	T.		.13		4.84
Rolla ‖	Meramec	.10						.20	.25	.05	.12			.33							.25	3.46					.32	.15		.35			5.58
Seymour	White																			T.	5.77	.14				1.02	.61		.02		.66	.34	......
Springfield**	....do	.44					.04		.09	.08			.01						T.	1.21	.93	.25		T.		1.79			.03	.28	.88	.28	6.31
Steelville ‖	Meramec	.03							1.04	.56	.20			.16		.27	.04				.68	1.00	.02				.48			.20			4.68
Tuscumbia ‖	Osage	.28							.07	.43	.01			.12							.27	1.92					.25			.85	.12		4.32
Southwest Plain.																																	
Amoret	Osage	.72								.07										2.40	.05	.92				.65			1.53	1.84	1.35	.68	10.21
Appleton City	....do	1.37						.04		T.			T.		.02				.09	.72	.02	1.82				.94			.02	1.59	.90	.62	8.15
Clinton	....do								.26				.38						.15	1.60	.72					.30			.35	1.18		1.10	6.04
Harrisonville ‖	....do	1.24							.57	.02				.07						.33	.70						.54		.10	1.06	.07		4.70
Lamar ‖	Neosho	.91								.52	.33		.06	.11	.05						.44	.14					.47			1.04	.70		4.77
Lamonte	Missouri																																......
Marshall	....do	.03											1.05							1.06	2.29					T.			.15	.09	.30	.06	5.03
Nevada	Osage	.72						T.	.40	.42			.08							.17	.10	1.70				.80				.18	.21	.30	5.08
Osceola ‖	....do	.78							.16				1.23							.82	.76	.47					2.25			3.43	.57		10.47
Warrensburg	Missouri																																......
Warsaw	Osage	.50						T.	T.				.35						T.	.65	.25	.50				.30				1.10	.16	1.25	5.06
Waverly ‖	Missouri								.30	.10				.24						1.06	.83	1.08				T.				.06	.52		4.19
Northwest Plateau.																																	
Avalon	Grand							.12	.18				.60							1.55									.65			.20	3.30
Bethany	....do							.50		.10			.35							.50	1.20								.11	.70		.35	3.81
Chillicothe ‖	....do							.06		.75	.02									.44	.89	1.24								.06	.20	.86	4.52
Conception	Missouri							T.		T.			T.							.15	.18								T.	2.09		.27	2.69
Edgerton	Grand												.24						T.	1.02	2.63								.03	.69	.01	.35	4.97
Grant City	....do						.32	.75		T.										.95	.52	T.							.62	.50			3.66
Kansas City***	Missouri	.03						T.		.18		.02	T.						.01	1.88	.50					.07			.21		.07	.14	3.11
Kidder ‖	Grand	.02						.05		.06			.38							.38	1.18	3.10								1.05		.50	6.72
Lexington ‖	Missouri	.47							.25	.12				.80						.13	1.93	.57								.10	.24		4.61
Liberty	....do							T.		.12			T.							2.37	.55	.03								.40	1.65	.16	5.28
Maryville ‖	....do												.06	T.						.04	.43	.22										.21	0.96
Oregon	....do								.04			.03			.01				T.		1.18					T.			1.80			.41	3.47
St. Joseph***	....do								.07			.06	.07						T.	.37	.45				T.				.62			.31	1.95
Tarkio	....do											1.90								.45	.01								.43	.19		.25	3.23
Trenton	Grand						.08		.90				.04						.21	.84	1.57								1.50			.65	5.79

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily temperatures for August, 1920.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	84	86	90	92	93	90	94	95	90	94	94	86	78	87	88	93	95	93	79	89	79	80	79	80	85	83	85	88	89	92	84	87.5
	Minimum	63	53	53	58	62	61	60	61	69	64	64	66	64	59	59	61	61	63	67	70	61	52	58	51	51	61	61	61	63	64	65	60.8
Columbia	Maximum	81	82	83	87	89	91	88	89	82	90	90	81	74	81	85	89	91	92	77	80	75	75	70	76	77	80	78	85	85	88	80	82.9
	Minimum	62	58	60	62	62	63	68	65	64	63	65	68	65	60	66	62	68	68	70	72	61	54	55	48	59	63	62	66	66	65	66	63.1
Fayette	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Hannibal	Maximum	78	80	82	87	90	93	91	88	85	90	92	79	76	81	77	86	89	88	81	84	74	74	69	76	79	80	80	84	88	88	78	82.8
	Minimum	61	53	57	58	61	63	67	64	68	65	66	68	67	65	66	63	64	66	70	70	59	54	52	48	54	64	61	62	62	62	66	62.1
Jefferson City §§	Maximum	81	84	86	88	91	95	95	90	85	91	95	85	72	82	86	89	91	90	91	85	73	77	70	78	82	79	79	85	92	88	78	84.9
	Minimum	66	59	56	58	59	62	65	65	63	64	66	69	65	64	66	62	63	66	70	71	60	56	57	49	50	54	63	61	64	67	68	62.2
Kirksville	Maximum	77	80	84	88	91	93	87	91	89	91	90	81	70	78	82	84	88	89	82	79	77	74	72	75	81	80	82	77	84	90	83	82.9
	Minimum	58	53	58	61	62	63	63	62	63	65	66	64	61	63	61	60	63	65	69	67	57	51	53	50	52	55	56	59	62	58	62	60.1
Louisiana	Maximum	85	85	82	88	90	93	94	92	93	90	90	90	84	82	80	84	85	86	88	84	82	73	73	74	75	76	80	82	82	82	85	84.2
	Minimum	60	45	48	50	54	56	68	65	62	62	64	75	65	65	69	62	63	62	65	72	62	52	55	46	50	60	55	74	62	60	68	60.5
Macon §§	Maximum	84	88	89	94	96	97	92	97	92	98	94	86	75	85	86	92	96	97	80	80	78	81	77	81	83	85	87	86	88	90	81	87.6
	Minimum	59	53	54	59	62	64	65	63	65	64	68	68	62	59	62	60	64	64	67	67	57	51	54	48	52	57	58	58	63	61	64	60.4
Mexico §§	Maximum	83	87	90	92	93	99	93	92	87	93	94	85	75	84	82	90	95	94	79	83	73	76	71	79	80	84	86	86	90	90	81	86.0
	Minimum	62	52	55	61	63	60	68	66	66	63	64	69	66	60	63	61	64	66	68	70	60	52	55	44	53	62	56	60	65	63	65	61.4
St. Catharine	Maximum	80	84	86	87	90	92	85	91	86	93	89	93	73	79	80	86	91	88	84	89	75	78	73	73	80	80	82	80	85	89	79	83.6
	Minimum	58	52	56	62	62	61	64	59	66	65	67	65	60	62	61	59	59	67	68	67	58	48	54	48	65	55	61	57	65	60	63	60.5
St. Louis (B)	Maximum	81	80	82	88	91	92	89	81	87	88	91	87	84	84	76	85	86	90	89	86	75	72	69	77	82	72	81	85	92	86	83	83.6
	Minimum	67	61	62	65	70	72	69	66	64	69	73	71	70	68	64	66	70	73	72	71	65	60	56	56	64	61	64	67	70	66	68	66.6
Unionville	Maximum	88	80	84	85	90	92	94	88	91	90	91	90	82	68	81	85	88	91	90	81	80	76	78	76	88	74	83	85	84	81	88	84.6
	Minimum	53	50	54	60	58	65	62	60	60	64	65	63	60	61	58	60	58	64	60	66	56	46	50	47	50	52	53	55	56	53	60	57.4
Warrenton §§	Maximum	82	84	85	92	93	97	94	89	87	92	97	84	82	85	73	88	90	92	84	83	67	72	69	77	80	77	82	85	90	90	92	85.0
	Minimum	68	56	55	58	65	67	69	65	63	63	69	71	64	64	65	61	65	65	67	70	62	55	54	50	57	62	61	61	66	64	66	62.8
Southeast Lowlands.																																	
Caruthersville	Maximum	91	91	94	100	101	102	99	95	95	91	91	91	93	89	93	89	99	99	101	99	95	88	88	92	92	83	87	92	89	94	98	93.6
	Minimum	71	65	61	63	61	68	71	71	71	71	69	68	71	75	71	69	71	71	71	72	75	66	59	57	57	62	66	68	72	72	73	68.0
Doniphan	Maximum	86	82	83	91	89	74	94	90	85	84	82	78	87	80	87	85	87	89	91	91	88	89	80	84	82	80	88	82	90	90	92	85.8
	Minimum	68	60	50	51	62	64	67	65	62	68	60	63	68	68	69	64	62	63	63	69	71	63	54	50	55	63	47	68	70	65	68	62.6
Jackson	Maximum	85	83	89	91	92	93	92	86	86	88	93	91	90	81	78	80	82	93	89	83	80	75	70	77	77	77	79	78	86	86	79	84.2
	Minimum	66	53	51	52	62	67	67	67	64	68	65	66	65	69	70	64	62	61	61	66	70	61	52	47	46	62	57	57	71	68	67	62.1
Poplar Bluff	Maximum	85	85	85	90	91	94	95	95	93	87	90	91	90	87	90	87	90	91	92	90	89	87	89	90	90	91	91	93	91	94	92	90.2
	Minimum	66	55	52	52	60	65	69	61	63	62	65	65	64	67	69	63	64	64	61	66	70	62	51	51	52	56	58	60	61	63	68	61.5
Ozark Plateau.																																	
Arcadia §§	Maximum	82	79	83	88	85	84	88	81	78	84	87	81	83	76	78	82	85	85	87	84	76	72	75	79	78	71	79	80	92	84	86	81.7
	Minimum	65	51	48	47	55	64	65	64	61	63	61	64	66	65	67	59	59	57	59	66	71	57	49	46	50	57	58	56	61	68	69	59.6
Aurora	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Birchtree	Maximum	79	80	83	85	90	90	89	79	83	87	82	83	....	75	82	85	85	86	89	84	74	76	82	....	79	77	83	78	86	81	82	[b]82.6
	Minimum	66	57	54	55	65	66	64	60	65	63	65	64	....	64	61	63	66	66	70	64	55	52	50	....	59	61	60	62	61	66	66	[b]61.7
Eldon	Maximum	86	86	85	82	85	92	94	95	85	94	95	81	75	85	89	93	90	91	99	87	72	75	82	81	80	78	77	85	91	84	74	85.1
	Minimum	63	50	50	53	55	60	61	61	58	57	60	63	62	60	62	56	59	59	68	65	56	50	54	49	45	58	59	66	63	63	63	58.3
Farmington	Maximum	79	79	81	86	89	79	91	81	78	88	88	79	82	80	86	85	88	88	90	86	72	74	69	78	81	72	80	78	90	84	86	82.2
	Minimum	61	55	55	52	65	69	67	65	63	67	64	67	66	65	68	64	63	62	61	65	62	58	52	50	51	62	59	60	70	70	66	62.2
Gano	Maximum	83	86	85	80	87	84	90	84	74	87	85	81	75	80	79	85	83	84	87	81	75	75	71	69	79	73	84	81	91	85	84	81.5
	Minimum	65	53	51	50	59	67	65	62	60	62	62	63	62	61	64	58	62	60	63	65	62	52	52	48	56	60	60	59	63	69	68	60.1
Hollister	Maximum	90	88	88	93	96	95	96	93	84	88	91	85	81	85	90	90	90	95	88	87	88	88	90	86	86	80	81	80	93	90	95	88.7
	Minimum	63	59	52	50	63	63	64	65	60	64	65	62	65	65	60	58	61	60	70	68	66	56	58	52	60	62	62	62	68	70	65	61.9
Koshkonong	Maximum	84	81	....	....	....	95	88	87	81	91	91	80	85	77	85	87	90	91	90	88	82	78	77	84	78	77	85	76	87	80	89	[c]84.4
	Minimum	69	65	....	....	....	55	68	67	60	64	65	67	66	67	66	65	65	65	66	67	66	58	56	53	59	63	60	64	70	69	69	[c]64.1
Lebanon §§	Maximum	82	80	81	84	86	90	88	80	76	80	87	76	70	80	82	84	86	86	87	84	72	74	74	80	77	76	80	76	86	84	82	81.0
	Minimum	65	56	55	55	56	60	61	62	62	64	65	65	65	59	59	60	63	62	65	66	65	55	51	49	49	61	59	60	63	65	70	60.5
Mountain Grove	Maximum	81	81	84	83	84	87	90	86	73	83	87	78	79	78	84	85	85	86	88	85	71	76	75	80	76	75	79	76	88	84	84	81.6
	Minimum	57	56	64	65	55	62	65	65	64	60	64	65	65	63	65	63	64	62	65	67	67	52	56	49	53	60	59	61	64	69	67	61.7
Neosho	Maximum	90	84	84	85	86	89	92	91	82	87	90	87	75	80	85	89	89	88	86	81	80	80	83	83	86	87	84	93	90	87	91	85.9
	Minimum	67	58	54	54	54	64	62	63	65	64	63	68	63	58	51	52	60	62	71	69	52	50	51	51	64	63	65	63	66	68	70	60.8
Rolla §§	Maximum	87	86	88	91	92	90	93	91	85	90	93	85	74	80	78	76	91	90	86	85	73	73	74	81	80	76	83	80	89	90	85	84.4
	Minimum	67	57	54	54	60	68	67	65	62	65	65	68	65	63	66	62	61	61	68	69	66	55	56	53	59	62	63	62	65	65	70	62.7
Springfield	Maximum	81	80	80	84	86	86	88	82	75	85	87	79	69	79	83	83	86	85	85	83	72	74	74	80	79	76	78	75	87	85	87	81.1
	Minimum	67	60	61	60	63	69	68	66	63	64	67	67	64	62	62	65	66	66	69	63	61	56	59	56	63	62	62	66	68	66	62	63.8
Southwest Plain.																																	
Amoret	Maximum	78	82	85	88	87	92	96	93	85	91	92	85	85	86	90	90	92	88	85	82	78	77	78	80	76	78	82	84	85	87	87	85.3
	Minimum	68	54	55	58	64	58	62	76	65	61	64	65	62	58	56	55	55	62	65	70	58	52	55	52	59	68	60	62	63	64	62	60.9
Appleton City	Maximum	81	81	85	86	87	91	93	90	81	90	90	81	80	80	88	90	91	85	82	83	77	76	77	73	....	78	83	84	88	87	86	[a]84.1
	Minimum	68	58	58	61	65	65	66	66	65	63	66	69	65	65	61	62	65	65	69	70	61	62	55	54	....	60	63	66	66	66	61	[a]63.5
Clinton	Maximum	85	86	87	89	89	94	95	94	86	94	93	86	79	83	90	93	93	96	87	87	80	82	79	82	77	85	87	88	90	89	87	87.5
	Minimum	65	56	54	57	63	61	64	65	62	63	63	68	64	64	60	60	63	63	67	69	60	55	60	52	60	60	60	65	65	66	65	61.9
Harrisonville §§	Maximum	82	65	84	86	88	94	96	89	82	90	86	80	79	79	72	91	88	84	79	83	79	77	76	77	67	77	69	82	70	75	78	80.8
	Minimum	63	58	57	61	65	63	65	75	65	64	65	64	62	61	63	61	65	65	67	70	61	52	59	55	58	59	61	61	64	67	69	62.7
Lamar §§	Maximum	84	83	86	88	90	92	94	91	82	88	91	82	77	84	89	91	91	89	87	84	79	76	82	85	87	85	87	85	91	89	91	86.5
	Minimum	66	52	55	57	58	62	63	66	63	64	63	65	62	62	56	56	56	64	67	70	61	52	56	53	62	62	64	63	65	65	67	61.2
Lamonte	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Marshall	Maximum	87	85	88	90	88	94	97	98	85	93	96	84	77	82	82	90	92	92	82	82	80	78	76	77	76	78	81	85	87	89	82	85.6
	Minimum	64	54	55	57	60	59	59	60	65	59	65	60	62	60	61	61	62	63	59	61	60	53	59	50	57	59	56	60	60	67	69	59.9
Warrensburg	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Warsaw	Maximum	82	83	85	88	87	94	94	90	82	90	91	85	76	82	87	90	90	89	86	87	82	77	76	80	80	80	84	85	90	89	85	85.4
	Minimum	68	52	50	54	60	60	64	66	62	61	60	67	65	60	59	58	59	59	71	70	62	51	59	48	58	59	60	63	63	67	66	60.7
Northwest Plateau.																																	
Chillicothe §§	Maximum	82	84	80	92	93	96	91	97	91	95	92	86	79	85	89	93	95	97	81	87	77	78	78	78	83	83	85	83	87	82	82	86.5
	Minimum	59	51	55	62	61	59	62	59	66	63	64	67	62	59	59	60	62	67	70	68	59	51	56	48	57	60	59	60	65	59	63	60.4
Grant City	Maximum	84	84	88	92	94	96	81	93	90	94	90	80	78	80	84	81	92	83	90	82	75	75	77	76	80	81	85	81	80	89	81	84.4
	Minimum	58	55	57	61	62	64	62	62	63	65	65	64	62	58	61	59	60	62	66	65	57	50	53	51	50	55	56	58	62	60	55	59.4
Kansas City	Maximum	77	79	86	87	86	91	90	93	85	88	86	75	79	79	83	86	88	85	81	83	76	74	76	76	71	76	81	82	83	89	79	82.3
	Minimum	64	61	63	67	70	67	70	70	68	69	69	64	63	60	65	68	68	70	68	66	62	57	60	57	61	60	63	67	66	66	69	65.1
Kidder §§	Maximum	80	84	86	89	90	92	89	93	89	92	87	88	88	82	85	88	91	89	80	82	73	72	75	75	88	78	80	82	80	86	73	84.1
	Minimum	58	55	58	63	67	65	66	65	67	68	68	66	62	59	58	62	62	62	67	67	58	51	52	52	52	57	58	59	62	61	62	60.9
Lexington §§	Maximum	81	83	87	88	88	91	85	92	86	92	90	82	81	82	86	88	91	90	80	86	78	80	76	77	76	82	82	86	86	88	84	84.6
	Minimum	62	54	55	60	63	57	68	60	67	62	65	66	63	59	60	60	62	66	61	68	61	52	60	51	57	60	64	64	66	64	65	61.4
Maryville §§	Maximum	81	84	85	89	92	94	90	93	91	96	88	66	79	82	86	89	91	87	85	82	77	78	80	78	82	83	83	80	82	90	79	84.6
	Minimum	56	50	50	59	61	62	61	58	62	62	62	62	56	56	56	58	60	63	63	66	55	46	51	52	52	52	54	54	54	56	59	57.0
Oregon	Maximum	79	83	85	87	88	91	87	91	89	91	88	80	71	79	84	87	90	87	81	82	75	74	78	78	80	80	83	81	77	87	80	83.0
	Minimum	56	55	56	62	62	63	63	61	64	65	64	60	56	56	56	59	60	65	66	62	54	49	51	52	55	55	56	59	61	58	61	58.8
St. Joseph	Maximum	81	84	87	88	89	92	88	93	91	94	88	69	78	82	86	88	90	87	83	83	77	75	79	79	81	80	83	80	81	90	77	84.0
	Minimum	62	55	60	68	61	64	69	65	69	69	69	64	62	59	59	63	63	67	69	62	60	51	56	56	60	62	61	63	63	62	66	62.6
Trenton	Maximum	80	79	86	87	87	91	87	91	87	88	91	86	78	80	83	84	88	88	83	84	76	75	74	73	79	80	81	81	77	86	80	82.9
	Minimum	60	56	59	63	65	63	65	62	66	67	69	65	62	63	61	62	65	68	70	69	58	51	56	52	57	59	61	62	65	60	65	62.1

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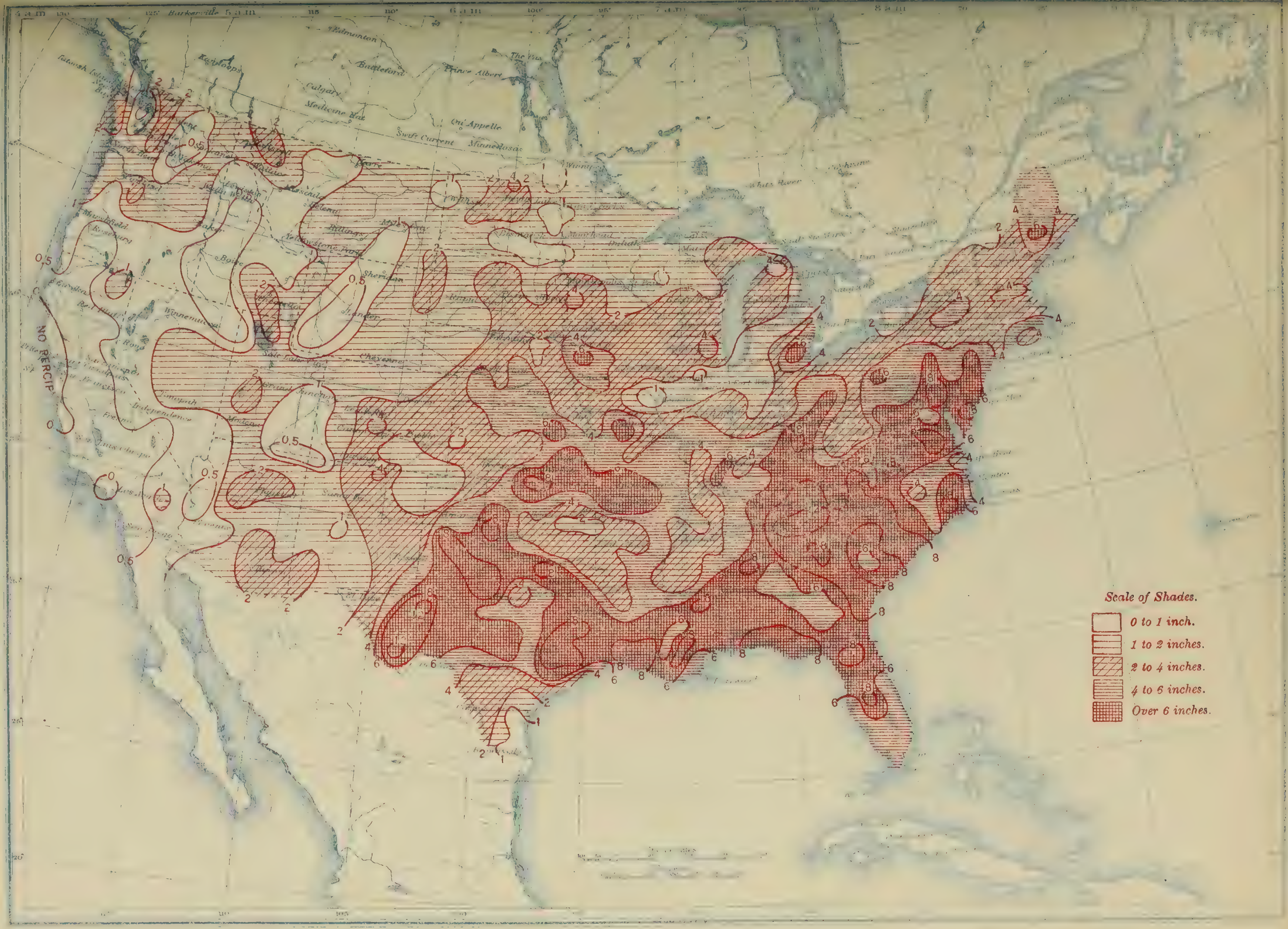
[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.


Scale of Shades.
0 to 1 inch.
1 to 2 inches.
2 to 4 inches.
4 to 6 inches.
Over 6 inches.
NO PERCIP
Edmonton
Battleford
Prince Albert
Calgary
Medicine Hat
Qu'Appelle
Swift Current
Minnedosa
Kamloops
Barkerville
Helena
Billings
Yellowstone Park
Sheridan
Lander
Boise
Baker
Walla Walla
Winnemucca
Salt Lake City
Cheyenne
Roseburg
Red Bluff
Independence
Fresno
San Francisco
Los Angeles
Bismarck
Moorhead
Duluth
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CLIMATOLOGICAL DATA

MISSOURI SECTION

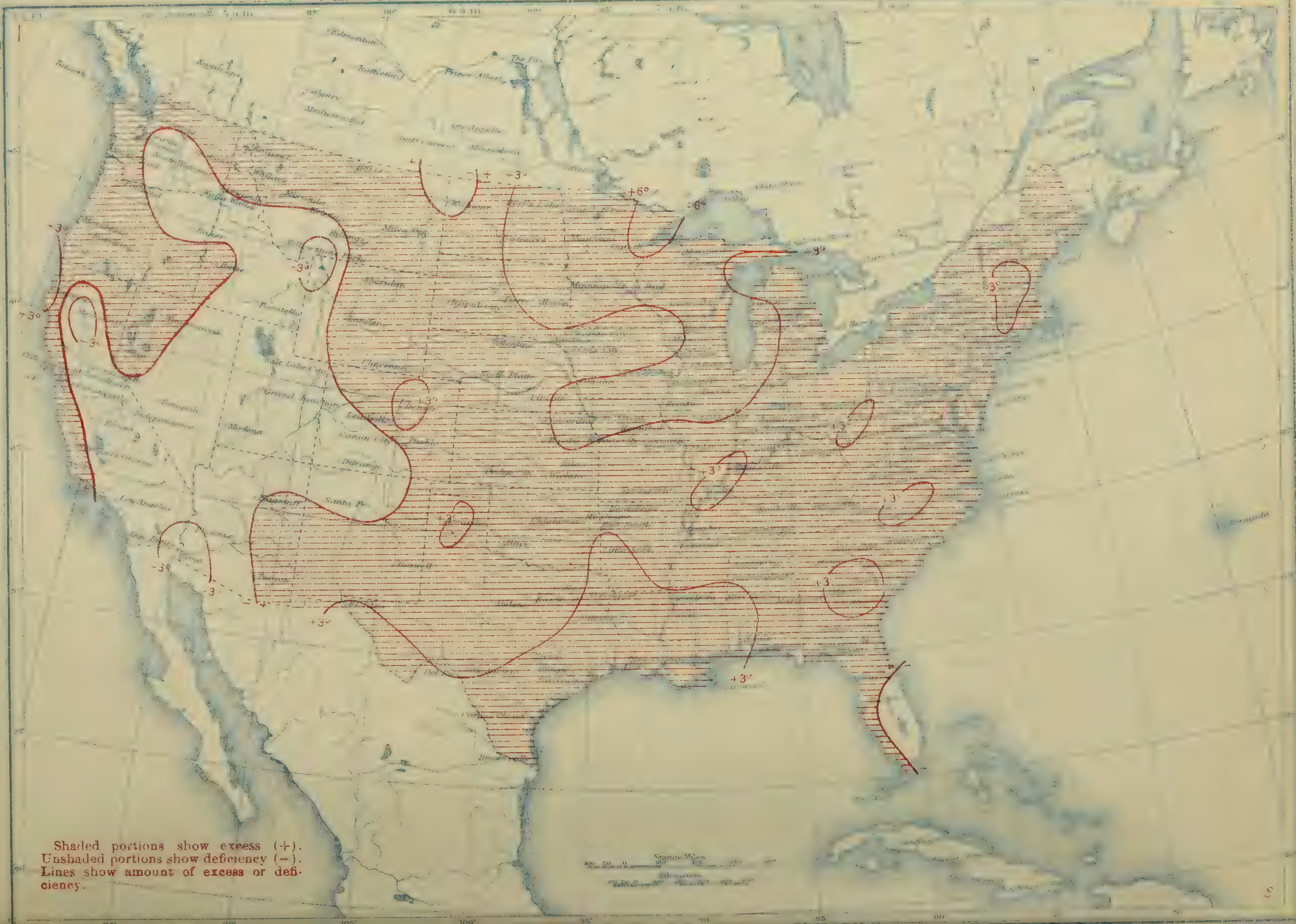
IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

SEPTEMBER, 1920

BY
GEORGE REEDER
METEOROLOGIST

COLUMBIA, MO.
WEATHER BUREAU OFFICE
NOVEMBER 19, 1920

Departure of the Mean Temperature from the Normal, September, 1920



Shaded portions show excess (+).
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXIV. COLUMBIA, MO., SEPTEMBER, 1920. No. 9.

GENERAL SUMMARY.

September, 1920, in Missouri, was warm with about normal sunshine. There was ample moisture, except in a few counties in the east-central section. In the Southwest there was rather more precipitation than needed. Temperatures approximated the freezing value at some stations in the northern sections on the morning of the 30th, but there was no material injury to vegetation.

As a whole the month was favorable for crops and for farm work. At the close of the month the bulk of the corn crop was safely made; and preparation for wheat sowing was well advanced.

There were a few wind, and hail storms but the resulting damage was confined to small spots.

TEMPERATURE.

The monthly mean for the State, 62 stations reporting, was 70.0°. The departure from the normal for 60 stations having 10 or more years' record was plus 1.4°. Temperatures were above normal in all sections, but the warmth was less marked in the Ozark Plateau and in the northwestern section than in the other divisions. The first week was cool, then followed a long stretch of warm weather ending on the 28th. The last two days were the coolest of the month, temperatures approximating the freezing value occurred at a few stations on the morning of the 30th. There was very little damage. The warmest days were the 12th, 15th, 20th, and the 25th, when day temperatures ranged from near 90° to 100°.

PRECIPITATION.

The average precipitation for the State, 66 stations reporting, was 4.81 inches. The departure from the normal for 64 stations having 10 or more years' record was plus 0.92 inch. All of the State, except a relatively small area from Callaway to Pike, thence south to about St. Francois County, received more than the normal precipitation. The heaviest rains fell in the southwestern plain as a rule, though heavy local rains fell in the other divisions. Rains were frequent and general during the first 12 days, and again on the 22nd, 24th, and 27th. The greatest local monthly amount was 9.06 inches, at Clinton, while the least amount was 0.96 inch, at Farmington.

WIND.

The prevailing winds were from the south. The total number of miles, as determined from the records of 8 stations equipped with anemometers, was 5,875 miles, or an average hourly velocity of about 8.2 miles. This is about 5 per cent greater than normal. General brisk winds prevailed on the 10th.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 regular stations with sunshine recorders reporting, was 259, or 70 per cent of the possible and about 5 per cent above normal.

MISCELLANEOUS PHENOMENA.

Fog, dense. — 5th, 6th, 7th, 20th, 25th, 26th, and 27th.

Frost, light. — 30th.

Hail. — At St. Joseph on the 10th; and in the northeast part of the State on the 29th.

Halos, solar. — 1st, 2nd, 12th, 21st, and 27th. Lunar. — 21st, and 27th.

Thunderstorms. General on the 8th, 10th, 11th, 15th, and 26th. Local, 2nd, 4th, 5th, 7th, 12th, 13th, 14th, 23rd, 24th, and 27th.

DAMAGING STORMS.

8th. - St. Louis was visited during the late afternoon by heavy rainstorm attended by damaging winds. Nearly 3 inches of rain fell. Cellars were flooded in lower portions of the city. Considerable damage was sustained by public utilities; traffic was delayed by fallen poles. Many trees were blown down.

10th. - Central Shelby County reported excessive rainfall and damaging winds in the late afternoon. The town of Shelbyville was out of light and phone service and basements were flooded. Corn was blown flat; some windows were broken.

11th. - Excessive rainstorms frequently attended by hail were local over the northern portions of the State. In Harrison County about 4 p.m. the wind storm was 6 miles wide across the northern portion with damaging hail about 1 mile wide in the center of the strip. Near Eagleville, chickens were killed by the hailstones that were the size of walnuts. It is estimated that 1,000 window panes were broken. Barns were blown down, haystacks and timber were damaged, while a large acreage of mature corn was laid flat. The damage to crops is estimated at 25 per cent over the hail swept area, which comprises about 24 square miles.

Between 5 and 6 p.m. Linn County reported damaging winds and excessive rainfall; considerable corn was blown flat. About the same hour storm conditions prevailed again at Shelbyville, Shelby County, that had been flooded by a downpour the night before. There was a heavy fall of hail, and light and phone service was again interrupted. Water stood everywhere. The storm travelled northeast over Center and Clarence in Ralls County. At Center, the path was 200 yards wide. $500 damage to plate glass, several large cattle sheds, many small sheds and out-buildings, and shade and fruit trees were the chief items of property damage; much corn was blown down. At Clarence several large shade trees were uprooted, two of them falling on dwellings and causing several hundred dollars damage. There was terrific wind, heavy hail, and excessive rainfall for a period of ten minutes. Heavy damage occurred across the Mississippi River in the vicinity of Canton, Ills. Some corn was blown bown near Mexico, Audrian County, and a few large trees uprooted in a local high wind.

12th. - Minor hail damage at 3 p.m. in the vicinity of Doniphan, Ripley County.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity. 7 a. m.	Mean relative humidity. 7 p. m.	Sunshine. Total hours.	Sunshine. Percentage of possible.	Wind. Total movement, miles.	Wind. Average hourly velocity.	Max. velocity. Miles per hour.	Max. velocity. Direction.	Max. velocity. Date.
Columbia	29.99	90	......	239	64	4,728	6.6	28	w.	13
Hannibal	29.99	85	......	......	......	5,377	7.5	32	nw.	11
Kansas City	29.97	81	63	275	74	7,191	10.0	36	n.	10
St. Joseph	29.96	86	63	264	71	4,802	6.7	33	s.	23
St. Louis	30.00	78	57	258	69	8,269	11.5	44	s.	10
Springfield	30.01	85	70	274	74	6,726	9.3	37	se.	13
Cairo, Ill	30.00	86	67	......	......	5,172	7.2	29	n.	29
Keokuk, Iowa	30.00	79	60	246	66	4,733	6.6	34	nw.	11

COMPARATIVE DATA FOR SEPTEMBER.

Year.	Temperature. Mean.	Temperature. Departure.	Temperature. Highest.	Temperature. Lowest.	Precipitation. Mean.	Precipitation. Departure.	Precipitation. Greatest in 24 hours.	Precipitation. Total snowfall, unmelted.	Number of days. With .01 inch or more.	Number of days. Clear.	Number of days. Partly cloudy.	Number of days. Cloudy.
1888	65.2	−3.7	97	28	1.11	−2.56	......	0	4	.....	.....	.....
1889	64.7	−4.2	94	31	4.66	+0.99	......	0	11	.....	.....	.....
1890	63.7	−5.2	98	34	3.98	+0.31	......	0	9	.....	.....	.....
1891	70.6	+1.7	104	30	0.63	−3.04	.....	0	6	.....	.....	.....
1892	67.8	−1.1	97	32	2.39	−1.26	3.00	0	4	19	6	5
1893	69.9	+1.0	107	26	3.92	+0.25	5.20	0	6	17	7	6
1894	68.5	−0.4	101	34	4.93	+1.26	3.07	0	5	13	11	6
1895	71.8	+2.9	104	25	2.45	−1.22	6.21	0	4	19	8	3
1896	65.0	−3.9	101	28	4.17	+0.50	4.40	0	10	11	10	9
1897	74.3	+5.4	105	27	0.74	−2.93	2.13	0	2	23	5	2
1898	70.9	+2.0	103	30	6.74	+3.07	6.10	0	9	15	9	6
1899	67.4	−1.5	108	16	2.04	−1.63	3.01	0	4	20	6	4
1900	71.1	+2.2	100	29	4.81	+1.14	3.79	0	10	13	10	7
1901	68.9	0.0	103	27	2.31	−1.36	2.80	0	6	18	8	4
1902	63.2	−5.7	95	30	4.78	+1.11	6.55	0	10	15	6	9
1903	66.4	−2.5	98	32	4.41	+0.74	6.77	0	8	17	6	7
1904	69.6	+0.7	96	34	3.85	+0.18	2.46	0	3	16	8	6
1905	69.6	+0.7	98	41	7.67	+4.00	7.90	0	10	15	6	9
1906	71.9	+3.0	98	36	4.15	+0.48	4.28	0	11	15	8	7
1907	68.9	0.0	101	31	1.93	−1.74	2.25	0	6	18	7	5
1908	71.6	+2.7	99	28	1.80	−1.87	2.68	0	4	18	8	4
1909	68.7	−0.2	105	28	4.62	+0.95	4.48	0	8	18	6	6
1910	69.5	+0.6	97	34	5.53	+1.91	4.63	0	10	14	6	10
1911	73.7	+4.6	105	39	7.13	+3.46	7.75	0	11	13	7	10
1912	68.6	−0.3	105	27	3.06	−0.61	3.61	0	9	17	5	8
1913	69.4	+0.5	109	27	4.63	+0.79	4.08	0	9	13	7	10
1914	69.6	+0.5	99	35	6.27	+2.52	9.22	0	9	15	8	7
1915	70.6	+1.5	98	34	5.25	+1.51	5.91	0	7	16	7	7
1916	67.8	−1.5	101	27	2.94	+0.86	2.80	0	6	19	7	4
1917	67.9	−1.2	101	33	2.78	−1.09	4.13	0	5	19	6	5
1918	62.3	−6.7	96	29	4.73	+0.77	6.61	0	7	17	6	7
1919	71.4	+2.7	104	38	3.29	−0 54	4.93	0	5	20	6	4
1920	70.0	+1.4	100	31	4.81	+0.92	4.10	0	9	17	7	6

Climatological data for September, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	39	70.9	+4.8	94	25	39	30	38	3.55	−0.78	1.25	0	10	19	0	11	nw.	O.K. Benecke.
Clifton Hill	Randolph	731	21	70.8	+2.2	95	14	37	30	34	4.97	+1.11	2.10	0	9	20	7	3	.....	L. S. Harlan.
Columbia	Boone	784	31	69.6	+1.8	89	14	38	30	30	4.47	+1.62	1.44	0	8	16	7	7	se.	U. S. Weather Bureau.
Fayette	Howard	725	41	68.2	−0.2	89	14†	38	30	35	5.34	+0.60	3.00	0	7	18	7	5	.....	L. W. Jacobs, jr.
Fulton	Callaway	818	33	.....	.....	.....	.....	40	30	....	3.89	−0.33	2.00	0	6	13^{f}	9^{f}	2^{f}	w	Westminster College.
Gorin	Scotland	700	32	.....	.....	.....	.....	.....	.....	....	3.65	−0.76	1.50	0	8	10	9	11	sw.	J. W. Pulliam.
Hannibal	Marion	534	37	69.6	+1.7	91	14	40	30	31	4.92	+1.36	1.96	0	8	14	11	5	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	87	70.2	+1.2	90	15	40	30	33	3.32	+0.06	1.10	0	10	23	2	5	s.	Miss Emma Swift.
Kirksville	Adair	969	38	69.5	+3.5	90	14†	32	29	38	3.24	−1.19	1.22	0	8	18	7	5	s.	Prof. J. S. Stokes.
Louisiana	Pike	469	39	70.0	+2.1	91	26	41	29†	36	2.84	−1.00	1.20	0	6	18	6	6	w.	J. T. Farrell.
Macon	Macon	875	26	70.6	+2.2	95	21	36	30	34	6.55	+2.47	1.99	0	8	16	7	7	se	W. C. Brown.
Mexico	Audrain	797	41	70.0	+1.2	94	25	39	30	34	7.63	+3.22	2.95	0	12	22	3	5	sw.	Mrs. Abbie Snoddy.
Palmyra	Marion	652	20	69.0	+0.4	92	14	38	30	33	6.62	+2.91	2.46	0	9	15	9	6	sw.	E. E. Steines.
St. Catherine	Linn	850	9	68.0	....	88	14	42	30	31	3.86	....	1.00	0	8	12	13	5	s.	W. B. Markell.
St. Charles	St. Charles	456	41	71 4	+4.2	93	24	42	29	32	5.47	+2.39	3.30	0	5	16	6	8	s.	L. D. Baker.
St. Louis (1)	St. Louis City	717	83	72.5	+2.5	91	14	45	30	22	4.79	+1.88	2.87	0	8	15	12	3	s.	L. C. Saeger.
St. Louis (2)	....do	578	8	71.5	+1.9	90	14	43	30	25	3.67	−0.70	2.03	0	10	14	11	5	s.	U. S. Weather Bureau.
Shelbina	Shelby	779	27	.....	.....	.....	.....	.....	.....	....	4.45	+0.81	1.42	0	7	....	....	....	.....	St. Louis University.
Steffenville	Lewis	650	26	71.4	+2.7	96	25	38	29	37	4.94	+0.71	2.65	0	6	13	14	3	s.	S. G. Parsons.
Unionville	Putnam	1,072	27	68.2	+0.9	90	20†	34	30	40	4 91	+0 23	1.85	0	13	14	9	7	nw.	Frank Hall.
Warrenton	Warren	865	38	70 5	+1.7	93	11	41	29†	31	4.20	+0.24	2 45	0	11	13	8	9	s.	Geo. W. Davis.
Keokuk, Iowa	Lee, Ia.	574	48	69.5	+3.1	91	25	38	30	29	2.65	−1.32	1.12	0	8	12	11	7	s.	Prof. J. H. Frick.
Section means and	extremes	.....	....	70.1	+2.1	96	25	32	29	39	4.55	+0.64	3.30	0	8	16	8	6	s.	U. S. Weather Bureau.
Southeast Lowlands.																				
Caruthersville††	Pemiscot	220	29	76.8	+3.8	100	15	42	30	39	4.20	+1.10	2.30	0	7	20	5	5	e.	H. E. Averill.
Doniphan	Ripley	344	16	73.0	+2.4	92	15	42	30	35	5.53	+1.98	1.90	0	9	17	1	12	sw.	W. W. Martin.
Jackson	Cape Girardeau	458	30	71.2	+1.5	85	15	46	30	26	1.68	−1.89	0.87	0	7	8	5	17	n.	John J. Putz.
Marble Hill	Bollinger	420	26	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. W. Wells.
Patton (near)	Bollinger	500	10	.....	.....	.....	.....	.....	.....	....	1.18	−2.22	0.97	0	2	....	....	....	.....	George F. Ellis.
Poplar Bluff	Butler	329	16	73.6	+2.7	93	15	48	30	38	7.05	+3.79	2.35	0	7	17	3	10	.....	Miss Belle Kinne.
Cairo, Ill.	Alexander, Ill	359	45	73.0	+2.8	91	15	41	30	26	2.19	−0.28	0 77	0	8	7	15	8	s.	U. S. Weather Bureau
Section means and	extremes	.....	....	73.5	+2.6	100	15	41	30	39	3.44	+0.94	2.35	0	7	14	6	10	s.	
Ozark Plateau.																				
Arcadia	Iron	925	42	68.8	+1.3	92	12	40	30	41	1.48	−2.18	0.59	0	8	14^{a}	10^{a}	5^{a}	w.	Arcadia College.
Aurora	Lawrence	1,370	....	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. D. Sprague.
Birchtree	Shannon	1,078	26	70.3	+0.9	92	15	36	30	35	5.42	+1.86	1.57	0	11	17	10	3	sw.	V. H. Kirkendall.
Bolivar	Polk	1,071	33	70.2	+0.7	90	10	37	30	35	5.82	+1.67	2.87	0	11	17	6	7	sw.	K. H. Brown.
Cassville	Barry	1,475	21	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. H. Wallen.
Dean	McDonald	1,000	21	.....	.....	.....	.....	32	30	....	4 25	+0.56	1.35	0	9	20	4	6	w.	H. E Dean.
Eldon	Miller	934	21	67.7	−1.7	87	15	35	30	35	4.26	+0.47	2.00	0	6	7	18	5	sw.	E. H. Shepherd.
Farmington	St Francois	918	23	70.1	+1 4	91	25	40	30	33	0.96	−2.29	0.60	0	6	15	10	5	nw.	Robert Forsyth.
Gano	Dent	1,250	18	68.8	−0.6	90	15	36	30	33	6.26	+2.03	4.10	0	5	18	7	5	se.	A. C. Leach.
Goodland	Iron	1,000	27	69.0	+1.8	91	15	38	30	41	3.32	−0.46	1.91	0	4	19	8	3	s.	F. M. Adams.
Hollister	Taney	735	17	72.2	+0.7	95	12†	36	30	40	4.80	+1.13	2.00	0	4	22	0	8	sw.	W. P. Chapmann.
Houston	Texas	1,280	27	69.6	+1.1	89	15	38	30	33	5.19	+1.11	2.14	0	8	13	11	6	se.	R. F. Harmon.
Koshkonong	Oregon	958	19	72.0	+1.3	92	15	38	30	31	4.85	+1.35	2.05	0	8	15	5	10	e.	R. M. Hitt.
Lebanon	Laclede	1,265	32	67.4	−2.1	86	15	35	30	30	8.77	+4.76	2.93	0	13	16	5	9	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	24	71.0	−0.1	90	15	36	30	34	6.54	+2.49	1.55	0	8	20	4	6	sw.	C. S. Crow.
Mountain Grove	Wright	1,490	23	68.8	+0.5	89	15	36	30	31	5.02	+0.93	1.23	0	12	13	9	8	s.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	71.3	+1.1	92	15	33	30	36	8.00	+3.82	2.52	0	7	19	6	5	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,139	36	71.0	+3.4	89	2†	38	30	36	6 23	+2.40	2.64	0	8	13^{a}	14^{a}	2^{a}	se.	Prof. Elmo G. Harris.
Seymour	Webster	....	..	68.8	+0.2	88	15	35	30	36	4.05	−0.57	1.35	0	9	15	12	3	s	Ira H. Hailey.
Springfield	Greene	1,350	42	70.0	+2.1	87	15	36	30	24	4.42	+0.66	2.08	0	8	21	6	3	se.	U. S. Weather Bureau.
Section means and	extremes	.....	....	69.7	+0.7	95	12	32	30	41	4.99	+1.08	4.10	0	8	16	8	6	sw.	
Southwest Plain.																				
Amoret	Bates	831	13	70.0	+1.6	90	10	34	30	36	5.56	+1.59	1.62	0	11	17	6	7	s	Darby Fruit Farm.
Appleton City	St. Clair	853	28	71 1^{a}	+0.8	91	15	37	30	30	7.85	+4.33	2.69	0	10	18^{a}	6^{a}	5^{a}	se.	W. G. Bigelow.
Clinton	Henry	765	33	70.9	+0.9	93	15	35	30	35	9.06	+5 37	1.80	0	10	17	9	4	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	912	44	68.3	0.0	89	15	34	29†	29	4 60	+0 17	1.22	0	10	18	5	7	se.	John H. Patterson.
Lamar	Barton	980	39	71.7	+1.2	92	15	36	30	35	5.51	+1.24	1.49	0	9	20	2	8	s.	Joe W. Springer.
Lamonte	Pettis	863	33	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. D. Wade.
Marshall	Saline	779	31	71.0^{b}	+1.9	90	14†	36	30	32	3.83	+1.16	1 80	0	9	15	9	6	ne.	Dr. W. H. Black.
Nevada	Vernon	860	28	69.8	+0.9	88	10	37	30	26	7.34	+3.18	2.02	0	11	19	6	5	s.	George A. Kaupp.
Warrensburg††	Johnson	883	42	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. I. Major.
Warsaw	Benton	715	25	71.2	+1.3	92	10	38	30	35	8.89	+4.72	3.60	0	13	14	14	2	s.	J. R. Smith, M. D.
Section means and	extremes	.....	....	70.4	+1.1	93	15	34	29†	36	6 58	+2.72	3.00	0	10	17	7	6	s.	
Northwest Plateau.																				
Avalon	Livingston	730	30	71.0	+1.4	92	20	40	29†	32	4.16	−0.79	1.80	0	8	22	5	3	sw.	F. G. Ashbaugh.
Bethany	Harrison	916	28	68.5	+1.8	91	20	33	30	36	5.41	+1.63	2.75	0	8	13	8	9	sw	M. H. Moulton.
Chillicothe	Livingston	768	15	70.2	−0.2	93	6†	36	30	41	3.46	−3.02	1.55	0	11	25	0	5	sw.	G. L. Fellinger.
Conception	Nodaway	982	35	68.9	+1.9	91	14	34	30	33	4.22	+0.45	1.39	0	9	15	11	4	nw.	Fr. Adelhelm Hess.
Edgerton	Platte	856	....	68.6	....	92	20	31	29	38	4 66	....	2.51	0	11	22	4	4	sw.	Fred L. Stiff.
Grant City	Worth	1,134	29	.....	.....	.....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....	.....	.....	....	J. F. Hunter.
Kansas City	Jackson	963	31	70.6	+3.1	90	20	38	30	24	4.30	+0 54	0.97	0	10	16	8	6	s	U. S. Weather Bureau
Kidder	Caldwell	1,020	33	67.2	−0 3	88	20	35	30	29	5.06	+1.03	1 20	0	11	20	6	4	sw.	Linn Terry.
Lexington	Lafayette	688	38	70.2	+1 8	91	20	38	30	32	4.65	+0.14	1.90	0	10	20	0	10	s.	J. W. Keithley.
Liberty	Clay	861	30	70.2	+0.7	93	20	35	30	35	3.84	−0.45	0.87	0	11	16	10	4	s.	James H. Harris.
Maryville	Nodaway	1,036	30	66 2	+0.8	91	20	31	30	34	3.82	−0.42	1.00	0	12	21	2	7	n.	J. R. Brink.
Oregon	Holt	1,048	64	66.0	−1.1	88	14	33	30	28	3.42	−0.26	1.25	0	7	16	10	4	se.	Tom Curry.
St. Joseph	Buchanan	967	46	69.4	+0.7	92	20	36	30	31	5.04	+1.69	1.48	0	0	18	6	6	s.	U. S. Weather Bureau
Tarkio ††	Atchison	976	27	66.8^{f}	+0.6	93	20	33	30	41	1.65	−1.86	0.75	0	6	21	5	4	sw.	John F. Frazier
Trenton	Grundy	822	25	68.2^{a}	+0.7	88	14	35	30	24	5.92	+1.69	1.20	0	11	20	3	7	se.	W. H. Estes.
Section means and	extremes	.....	....	68.7	+0.9	93	6†	31	29†	41	4.26	+0.03	2.75	0	10	19	6	5	sw.	
State means and	extremes	.....	....	70.0	+1.4	100	15	31	29†	41	4.81	+0.92	4.10	0	9	17	7	6	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Oakfield, Pacific, R. F. D. No. 1: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5.

Daily precipitation for September, 1920.

Stations.	Watersheds.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Northeast Plain.																																	
Boonville ‖	Missouri	.05				.03			.06	.02		.88		1.12	.07	.27								.34	.10			1.42					4.36
Brunswick ‖	Grand	.42				.25			.12			.42	.20	.40	.10									.18	.21			1.25					3.55
Clifton Hill	Chariton								.55		.56	.37	.23	.45										.15	.10		2.10	.46					4.97
Columbia***	Missouri	T.			T.			.01	.47		.90			.54		.98							T.	.13			1.36	.08					4.47
Fayette	....do					.18			.23		.72			.54		.44								.23			3.00						5.34
Fulton	....do							.02			.41			.41		1.00									.05			2.00					3.89
Glencoe ‖	Meramec																																
Gorin	Mississippi				.11	.11			.55		.16	1.50				.30								.06				.86					3.65
Hannibal***	....do				T.	.02		T.	1.03		1.76	.63		T.		.41					T.		T.	.03			.98	.06					4.92
Hermann ‖	Missouri	.47							.20	.25		.40	.05				.20											.31					1.88
Jefferson City ‖	....do	.32	.05					.05	.20			1.00		.45	.05	.05									.05			1.10					3.32
Kirksville	Mississippi					.13					1.22	1.12		.11						.02				.13	.08		.43						3.24
Louisiana	....do								1.20		.28		.02	T.	.10	.44								T.				.80					2.84
Macon ‖	Chariton	.15							.53	.55		1.99	1.78	.48										.17	T.			.90					6.55
Mexico ‖	Mississippi	1.05				.01			1.12	.49		.12	1.38	.28	.01	.05	.16							.01				2.95					7.63
Pacific ‖	Meramec	.30	T.						.04	.72		.28	.09	.07			.14											.05					1.69
Palmyra ‖	Mississippi	.37							.41	1.22		2.46	1.16		.09	.28								.06				.57					6.62
St. Catherine	Grand				.10				.91		1.00	.97	.02	.24										.36			.26						3.86
St. Charles	Missouri	T.						T.	3.30		1.17				.34	.05												.61					5.47
St. Louis (1)***	Mississippi	T.				.10		.01	2.87		.13	1.15	.28	T.		.16								T				.11					4.79
St. Louis (2)	....do	T.				.10		.02	2.03	.02	.18	.94	.10			.16								.01				.11		T.			3.67
Shelbina	....do								.74		.45	.54	1.42	.10									.40				.80						4.45
Steffenville	....do								1.10		.31	2.65	.05	T.													.20	.63					4.94
Union ‖	Meramec	.37	.02					.05	.02	.81		.62	.02	.11			.02							.01				.05					2.10
Unionville	Chariton	.32		.20	.05	.36	T.		1.40	.45	.20	.98	.10		T.					.10			.20	.10			.45						4.91
Valley Park ‖	Meramec	.03				T.		T.		.80		.29	1.52	T.	T.	T.	.13											.06					2.83
Warrenton ‖	Mississippi	.08	.02			T.			.03	2.45		.24	.45	.03		.10	.19							.01				.60					4.20
Keokuk, Iowa***	....do								.27	T.	.06	.58		T.	.25	.34				T.			T.	.03			1.10	.02		T.			2.65
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi	.65	.25						.23	.07		.25		.12										.11					.39				2.07
Caruthersville	....do		.05					.18	.52	T.	2.30		1.00										T.	.12		.03		T.					4.20
Doniphan	Black	T.	1.90				T.	.25	.40	T.	.78	.30	.50	.60													.40	.40					5.53
Jackson	Mississippi		.29					.07			.20	.01		.87		T.								.10	T.			.23					1.68
Marble Hill	....do																																
New Madrid ‖	....do		.43	.04				.04	.01	.21	.04	1.49	.05	.24										.21					.45				3.21
Patton (near)	....do												.21															.97					1.18
Poplar Bluff ‖	Black	T.	1.05	T.				T.	T.	.65		1.45	2.35	.73	.12		T.							T					.70				7.05
Cairo, Ill.***	Mississippi		.27					T.	.13	.06	.77	T.	.11	.06		T.								.10				.69					2.19
Ozark Plateau.																																	
Arcadia ‖	St. Francis		.15					.07	.03	.11		.59	T.	.09	T.									.03				.41					1.48
Aurora	White																																
Birchtree	Black	.19	.22					.35	.06		.28	1.00	.37	1.12										.10	.16			1.57					5.42
Bolivar	Osage	.32			.23		T.	.32	.21		.05	.67		2.87									.23	.16	.58			.18					5.82
Cassville	White																																
Dean	Neosho	.72					.27	.40	.02	.26				.06									1.35	.31	.86								4.25
Eldon	Osage							.15	.05		.84			.81										.41				2.00					4.26
Farmington	St. Francis	T.						.08	.04		.10	.09		.05														.60					0.96
Gano	Meramec	.30						T.			2.40	1.70		.38														1.48					6.26
Goodland	Black	.03									1.91			.70														.68					3.32
Hollister	White							2.00	.55					1.20									1.05										4.80
Houston	Gasconade	T.	.15			T.	T.	.30	T.	.15	T.	.18	.59	2.14									T.		.48			1.20					5.19
Koshkonong	Black	.22	2.05					.50	.11		1.12		.08	.57										.20									4.85
Lebanon ‖	Osage	.90	.16				.35	.10	.70	.11		.21	1.39	2.93	.69									.03	.50			.70					8.77
Lockwood	....do	.66			.18		T.	.43	.78			.61		1.55									T.	.97	1.36								6.54
Mountain Grove ‖	White	.20	.12					.07	.28	.33		.05	.40	1.05	.61									.23	.45			1.23					5.02
Neosho	Neosho	1.17					T.	1.33	.65	.12		T.		.60									1.61		2.52								8.00
Rolla ‖	Meramec	.31	.50					T.	.15	.35		1.98	.16		.14										T.			2.64					6.23
Seymour	White	T.						.46	.14	.02	.18		T.	1.35									.31	.25	1.28			.06					4.05
Springfield***	....do	.17			T.		.03	.41			.02	T.		2.08									.27	.89	.55			T.					4.42
Steelville ‖	Meramec	.24	.14					.02	.04	.10		.70	.13	.30	.05													1.60					3.32
Tuscumbia ‖	Osage	.87	.15					.04	.0.			2.53	.03	1.09	.10									.07	.25			1.46					6.68
Southwest Plain.																																	
Amoret	Osage	.92	.03					.25	.12		.10			1.62									.50	.71	.08		.69	.54					5.56
Appleton City	....do	.40			.21			.46	.08			.40		1.23									.62		1.09		.67	2.69					7.85
Clinton	....do	.38						.45	.50		1.30			1.50									.38	.40	.92		1.80	1.40					9.06
Harrisonville ‖	....do	.88	.16	.36	.44	.10		.07	.36		T.			1.22										.48			.53						4.60
Lamar ‖	Neosho	.82				.13		.74	.63			.05	.20	T.	.90									1.49	.55			T.					5.51
Lamonte	Missouri																																
Marshall	....do	.06			T.	.06		T.	T.		.50	.05		.65		.23							T.	.10	.38			1.80					3.83
Nevada	Osage	.20			.24		T.	.73	2.02			.60		1.02									.55	.69	.42		.85	.02					7.34
Osceola ‖	....do	1.96				.25	.53	.45	.55				.35	1.60										.80	.35			2.01					8.85
Warrensburg	Missouri																																
Warsaw	Osage	18			.12	.08		.88	.16		1.52	.10		2.05									.12	.18	.42		.08	3.00					8.89
Waverly ‖	Missouri	.09				.18		T.	T.			.43	T.	.37		.12								.40	.14		T.	2.10					3.83
Northwest Plateau.																																	
Avalon	Grand				30			.06			1.35	.45		.35									.20	.30			1.15						4.16
Bethany	....do		.30	T.	.42	.35		T.	2.75		.40	.72		T										.40	.07								5.41
Chillicothe ‖	....do.	.02		.04	.04	.35			.38	.04		1.55	.21											.33	.32		.18						3.46
Conception	Missouri		.51		.70	.30		T.	1.39		.14	.46		T.									T.	.47	.07		.15						4.22
Edgerton	Grand	T.	.11	.05	.08	.08	T.	.01	2.51		.92			.18									T.	.56	.09		.07						4.66
Grant City	....do	.60	.17									2.25	.04																				
Kansas City***	Missouri	T.	.26	.04	.40	.08		.97	T.		.52		T.	.73									.33	.57			.40						4.30
Kidder ‖	Grand	.02		.70	.43	.43			1.20			1.00	.04	.40										.68	.12		.04						5.06
Lexington ‖	Missouri	.04		.05	T.	.37			.10			.76		.70		.04								.44	.25			1.90					4.65
Liberty	....do	03	.10		.38	.23		.18	T.	T.	.48			.68									.06	.56	.27		.87						3.84
Maryville ‖	....do	.04	.02	67	.25	.54			1.00	.02		.14	.61											.45	.03		.05						3.82
Oregon	....do	.13	T	T.	.27				1.25		T.	.42		.02										.90			.43						3.42
St. Joseph***	....do		.89	T.	.10			.32	1.09		1.48		.03	.15									.29	.37			.32						5.04
Tarkio	....do								.42		.05	.30		.09										.75			.04						1.65
Trenton	Grand		.73		.49	1.44		1.20	.08		.64	.65	.24	T.						T.			.16	.05			.24						5.92

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station: precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily temperatures for September, 1920.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	82	83	85	76	79	82	75	78	83	76	88	90	87	93	90	87	89	89	91	93	91	83	87	91	94	80	84	79	54	60	....	83.3
	Minimum	67	59	57	57	54	52	52	61	61	59	59	62	66	66	71	58	52	52	53	62	61	66	66	64	67	65	53	52	41	39	....	58.5
Columbia	Maximum	74	78	79	72	76	76	70	79	78	74	83	84	79	89	87	80	81	84	86	88	86	83	83	87	89	88	78	78	56	57	....	79.4
	Minimum	63	60	56	58	53	50	63	64	61	58	69	70	65	71	63	56	52	57	56	63	66	64	65	65	71	65	57	54	42	38	....	59.8
Fayette	Maximum	78	77	78	71	76	75	71	74	79	70	82	83	79	89	86	80	79	82	84	87	85	80	83	87	89	80	77	77	50	55	....	78.1
	Minimum	63	59	57	59	52	50	63	60	60	56	69	66	65	70	60	58	52	50	52	61	61	63	64	63	70	59	57	52	40	38	....	58.3
Hannibal	Maximum	75	77	78	71	75	77	75	73	76	76	86	86	78	91	88	80	80	85	86	90	88	83	84	88	91	87	79	76	54	55	....	79.6
	Minimum	65	58	56	58	54	52	55	64	63	57	62	63	62	69	69	58	52	54	55	65	68	65	67	69	72	64	59	54	42	40	....	59.7
Jefferson City §§	Maximum	72	78	80	77	77	78	71	82	81	76	80	87	81	89	90	80	83	86	86	89	87	85	86	90	90	90	78	80	69	57	....	81.2
	Minimum	66	60	56	55	56	53	56	62	62	58	60	72	65	65	72	59	54	53	55	55	61	64	65	62	63	69	63	53	42	40	....	59.2
Kirksville	Maximum	80	77	81	72	77	79	78	73	79	73	87	89	85	90	88	86	89	86	87	90	89	82	82	89	90	80	86	79	66	60	....	81.6
	Minimum	60	58	55	60	61	49	51	60	61	57	60	60	64	66	74	54	51	55	56	63	61	62	64	62	68	61	49	52	32	35	....	57.4
Louisiana	Maximum	82	76	76	78	78	78	76	74	74	76	85	85	82	90	90	83	80	82	85	90	90	87	85	88	90	91	90	82	77	60	....	82.0
	Minimum	63	56	52	50	54	52	50	62	62	56	67	62	62	68	74	55	50	50	52	60	60	60	67	67	68	70	60	52	41	41	....	58.1
Macon §§	Maximum	82	82	84	75	78	84	76	76	80	72	87	89	87	94	89	86	87	89	89	93	95	91	87	92	95	83	83	78	50	60	....	83.1
	Minimum	63	58	55	56	53	50	54	61	60	58	64	61	63	64	72	52	54	55	57	62	63	62	62	63	66	69	54	53	39	36	....	58 0
Mexico §§	Maximum	76	80	82	74	80	78	72	79	78	75	85	86	83	92	89	80	83	86	88	90	89	86	86	90	94	91	78	80	52	58	....	81.3
	Minimum	65	57	55	55	53	52	56	62	61	56	62	64	64	64	72	55	51	55	54	62	63	63	65	65	67	69	59	56	40	39	....	58.7
St. Catharine	Maximum	78	77	81	72	78	77	76	73	78	78	84	84	82	88	86	82	81	83	81	85	86	84	80	82	86	77	76	72	70	71	....	79.7
	Minimum	62	57	54	60	53	51	54	59	60	57	61	58	63	67	73	52	52	54	53	57	60	56	52	63	60	52	50	48	46	42	....	56.2
St. Louis (1)	Maximum	74	78	76	79	78	77	75	77	77	81	82	87	79	91	89	80	78	84	86	89	88	84	84	90	89	85	77	81	60	56	....	80.4
	Minimum	68	61	61	58	63	60	64	65	66	64	67	67	70	69	75	65	63	63	65	68	70	68	67	70	70	71	68	60	46	45	....	64.6
Unionville	Maximum	80	81	80	70	74	87	81	73	78	79	87	88	83	88	85	82	84	86	87	90	87	83	82	88	90	80	78	75	64	57	....	80 9
	Minimum	57	55	53	58	50	47	49	60	58	56	62	58	62	65	70	50	52	55	56	54	60	62	64	60	62	60	47	52	36	34	....	55.5
Warrenton §§	Maximum	70	78	79	77	79	77	68	70	78	79	93	87	87	91	88	90	81	86	87	90	88	83	85	90	90	90	77	79	51	56	....	80.8
	Minimum	65	57	56	55	57	54	60	63	63	60	65	65	65	67	72	58	56	55	59	60	62	62	67	65	69	68	63	56	41	41	....	60.2
Southeast Lowlands.																																	
Caruthersville	Maximum	93	83	90	93	94	94	80	90	90	89	96	97	90	98	100	96	91	95	97	98	99	89	91	96	98	99	87	93	76	64	....	88.2
	Minimum	72	62	67	63	63	62	68	66	67	69	70	72	67	71	74	68	61	59	58	62	67	69	67	71	70	71	70	64	53	42	....	65.5
Doniphan	Maximum	85	77	79	84	85	82	78	82	86	83	90	89	82	90	92	90	87	88	86	86	91	84	88	89	90	91	89	83	76	59	....	84.7
	Minimum	66	58	57	56	58	56	62	66	72	61	68	69	65	68	69	65	63	53	57	54	57	65	67	66	67	56	60	61	52	42	....	61.2
Jackson	Maximum	75	74	73	73	75	75	73	76	75	75	75	80	76	81	85	85	75	72	76	77	75	76	77	79	82	84	83	76	76	53	....	76.2
	Minimum	67	61	54	52	64	62	68	70	71	64	72	75	70	72	73	64	62	67	69	70	70	63	69	74	70	71	71	73	50	46	....	66.1
Poplar Bluff	Maximum	92	90	84	88	86	86	89	88	85	85	89	91	89	90	93	89	85	87	89	89	90	85	86	90	90	90	85	85	79	79	....	87.4
	Minimum	68	60	56	52	55	55	65	65	66	63	65	63	63	65	69	59	54	51	51	51	59	59	64	67	65	66	67	54	50	48	....	59.8
Ozark Plateau.																																	
Arcadia §§	Maximum	77	78	76	78	81	79	72	81	82	80	86	92	82	91	90	84	81	85	87	89	85	78	81	89	88	87	72	84	51	56	....	80.8
	Minimum	67	62	52	49	52	52	56	62	65	54	61	70	60	63	69	57	47	41	49	50	53	56	63	67	69	61	65	45	47	40	....	56.8
Aurora	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Birchtree	Maximum	79	74	70	79	80	80	72	82	83	85	90	89	79	87	92	85	83	85	85	91	88	79	80	89	85	89	79	83	67	57	....	81.5
	Minimum	63	60	56	53	55	55	62	64	63	61	66	65	62	66	67	56	54	51	55	56	61	66	62	63	69	67	63	52	45	36	....	59.1
Eldon	Maximum	75	80	81	73	77	77	70	80	79	81	81	86	82	85	87	78	82	83	85	86	85	82	82	84	86	84	75	79	59	57	....	79.4
	Minimum	59	56	51	51	55	47	47	62	58	56	65	71	61	64	53	55	67	68	50	54	56	58	60	59	59	64	54	49	37	35	....	56.0
Farmington	Maximum	77	79	76	78	78	76	74	79	77	76	82	87	80	90	88	79	77	81	83	87	88	79	85	90	91	90	81	81	69	52	....	80.3
	Minimum	66	63	56	54	59	56	62	62	63	57	68	69	63	69	70	61	55	48	50	58	58	61	66	66	69	68	65	50	44	40	....	59.9
Gano	Maximum	71	76	74	76	74	78	71	80	79	77	80	88	82	88	90	78	78	83	80	86	85	80	82	88	89	88	76	72	67	54	....	79.0
	Minimum	63	62	62	50	55	52	60	67	62	58	60	69	60	67	70	62	49	50	52	56	60	59	63	64	69	67	62	50	41	36	....	58.5
Hollister	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Koshkonong	Maximum	83	71	78	79	82	80	73	87	85	83	90	87	78	89	92	84	82	85	87	88	88	78	83	88	87	89	85	83	70	55	....	82.3
	Minimum	65	61	58	55	60	59	63	64	63	64	73	69	63	68	70	61	57	54	57	62	64	64	63	63	70	70	67	56	50	38	....	61.7
Lebanon §§	Maximum	70	76	74	74	76	75	70	77	77	85	83	85	80	85	86	77	78	80	83	84	82	75	80	85	85	85	75	77	54	55	....	77.6
	Minimum	64	62	54	54	52	53	53	61	63	61	64	63	61	60	70	53	50	50	53	55	60	62	61	61	62	63	65	50	41	35	....	57.2
Mountain Grove	Maximum	67	73	78	77	80	78	77	79	80	86	83	87	78	85	89	81	81	84	84	85	84	75	79	86	85	86	75	82	54	56	....	79.1
	Minimum	63	62	54	53	52	56	54	61	64	65	64	65	60	59	64	56	50	53	65	60	62	64	60	62	64	66	64	51	45	36	....	58.5
Neosho	Maximum	77	80	82	78	73	82	79	78	84	89	88	89	85	89	92	89	84	86	86	88	86	77	86	91	87	89	78	82	76	75	....	83.5
	Minimum	64	60	56	59	57	53	61	66	63	65	72	72	62	69	72	53	48	50	51	55	59	60	67	63	59	67	65	47	45	33	....	59.1
Rolla §§	Maximum	72	89	86	78	78	78	73	79	80	80	80	84	84	88	88	80	88	86	87	88	86	78	83	89	87	88	89	80	68	68	....	82.1
	Minimum	65	62	55	53	54	54	63	66	64	63	67	72	62	69	72	59	52	53	52	57	60	61	64	64	64	69	64	52	43	38	....	59 8
Springfield	Maximum	71	76	75	74	76	75	71	78	80	86	86	87	77	85	87	79	80	81	84	84	83	72	81	85	83	84	75	78	62	54	....	78.3
	Minimum	64	62	61	58	55	60	60	66	64	67	71	67	60	70	70	60	60	60	60	62	66	64	61	63	70	68	64	56	43	36	....	61.6
Southwest Plain.																																	
Amoret	Maximum	75	80	80	81	78	73	70	78	82	90	88	86	85	88	88	82	81	85	85	88	86	76	85	88	88	78	78	80	75	58	....	81.2
	Minimum	63	59	58	62	55	51	62	63	58	63	68	69	62	70	72	58	53	54	58	55	60	60	60	62	66	60	56	52	39	34	....	58.8
Appleton City	Maximum	77	79	....	74	79	78	76	76	82	89	85	86	81	88	91	81	84	85	86	88	86	78	85	88	88	84	78	81	70	58	....	[a]81.4
	Minimum	64	59	....	60	55	55	63	65	59	65	68	71	63	73	74	57	56	56	57	61	62	65	63	62	69	67	59	55	42	37	....	[a]60.8
Clinton	Maximum	75	81	84	73	80	78	74	78	85	92	86	86	87	91	93	84	86	81	89	91	80	79	87	90	90	83	70	83	60	62	....	81.9
	Minimum	65	60	67	60	54	52	62	65	58	61	68	68	67	71	74	54	51	52	54	60	60	65	63	65	69	63	58	56	40	35	....	59.9
Harrisonville §§	Maximum	75	79	78	73	73	74	66	76	84	86	85	83	82	87	89	83	83	85	83	88	82	75	84	86	72	82	80	59	61	58	....	78 3
	Minimum	66	60	57	60	55	57	56	63	58	59	66	69	64	64	73	56	57	56	57	65	59	63	61	62	65	53	62	38	34	34	....	58.3
Lamar §§	Maximum	77	83	82	78	81	77	76	79	84	91	90	90	87	89	92	84	86	88	88	90	90	77	87	91	90	88	82	84	61	61	....	83.4
	Minimum	63	62	57	60	53	57	60	61	63	65	69	72	65	72	72	55	51	54	54	56	62	66	60	64	68	68	61	50	43	36	....	60.0
Lamonte	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Marshall	Maximum	79	81	82	73	79	78	73	77	82	74	84	84	84	90	89	83	82	84	....	90	87	82	85	87	90	80	77	78	65	56	....	[a]80.5
	Minimum	67	59	59	59	51	51	61	61	58	57	69	66	63	69	73	56	51	52	....	....	64	63	65	69	68	66	65	50	39	36	....	[b]59.5
Warrensburg	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Warsaw	Maximum	75	80	80	78	78	81	72	88	81	92	85	90	85	90	89	82	84	86	87	89	86	82	85	88	90	87	87	80	73	59	....	83.0
	Minimum	67	56	59	45	56	50	62	66	61	60	69	72	61	71	75	54	50	51	52	57	64	65	64	66	70	67	63	51	41	38	....	59.4
Northwest Plateau.																																	
Chillicothe §§	Maximum	82	81	82	88	84	93	78	77	82	71	87	90	87	92	90	86	86	88	89	93	91	83	88	91	91	75	82	80	56	60	....	83.5
	Minimum	63	57	56	56	53	52	50	61	58	57	64	59	64	65	73	49	49	52	56	61	60	65	65	61	64	65	47	49	39	36	....	56.9
Grant City	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Kansas City	Maximum	76	79	78	72	74	74	68	72	81	82	87	85	81	89	86	80	82	85	87	90	87	75	84	86	88	75	78	78	55	58	....	79.1
	Minimum	66	63	59	63	59	56	62	64	59	66	72	70	64	74	70	63	62	63	64	68	66	62	63	66	71	60	55	54	42	38	....	62.2
Kidder §§	Maximum	77	78	79	70	72	75	73	69	73	72	82	85	80	77	84	80	82	83	84	88	85	78	81	83	86	80	77	74	57	57	....	77.4
	Minimum	62	60	56	60	55	52	53	58	58	58	53	56	63	63	70	54	55	57	57	60	61	60	63	62	62	56	59	52	38	35	....	56.9
Lexington §§	Maximum	83	82	80	73	76	80	72	72	80	76	86	86	82	90	88	84	85	86	86	91	88	80	85	88	88	70	80	80	57	58	....	80.4
	Minimum	65	61	56	62	55	53	61	65	59	61	68	65	65	70	69	58	53	59	56	63	62	65	65	65	69	63	52	55	40	38	....	59.9
Maryville §§	Maximum	80	76	76	73	73	76	76	68	81	82	86	86	80	89	80	85	83	86	87	91	86	74	81	85	83	78	77	76	55	59	....	78.9
	Minimum	58	56	52	52	49	49	49	52	54	54	61	54	63	61	68	51	51	53	53	60	59	60	60	57	57	55	46	46	33	31	....	53.5
Oregon	Maximum	79	80	71	74	69	75	74	64	70	74	85	82	78	88	84	80	80	83	85	87	84	76	80	82	84	78	76	73	60	55	....	77.0
	Minimum	59	57	52	56	49	48	45	51	60	55	63	58	60	67	65	53	52	55	58	60	62	65	59	57	70	53	47	46	36	33	....	55.0
St. Joseph	Maximum	80	76	74	74	72	77	71	72	81	76	87	87	83	91	86	83	84	88	88	92	88	74	84	86	88	76	80	76	55	58	....	79 7
	Minimum	64	60	56	61	55	52	59	62	59	64	66	63	65	72	63	56	54	60	64	67	68	64	64	61	65	56	49	48	41	36	....	59.1
Trenton	Maximum	80	79	78	68	70	73	77	74	75	72	84	80	81	88	82	77	79	80	83	85	83	80	83	82	85	78	76	72	64	56	....	77.5
	Minimum	62	60	56	61	....	53	56	62	60	60	63	60	65	67	68	55	55	57	59	63	62	65	66	62	69	62	53	53	41	35	....	[a]59.0

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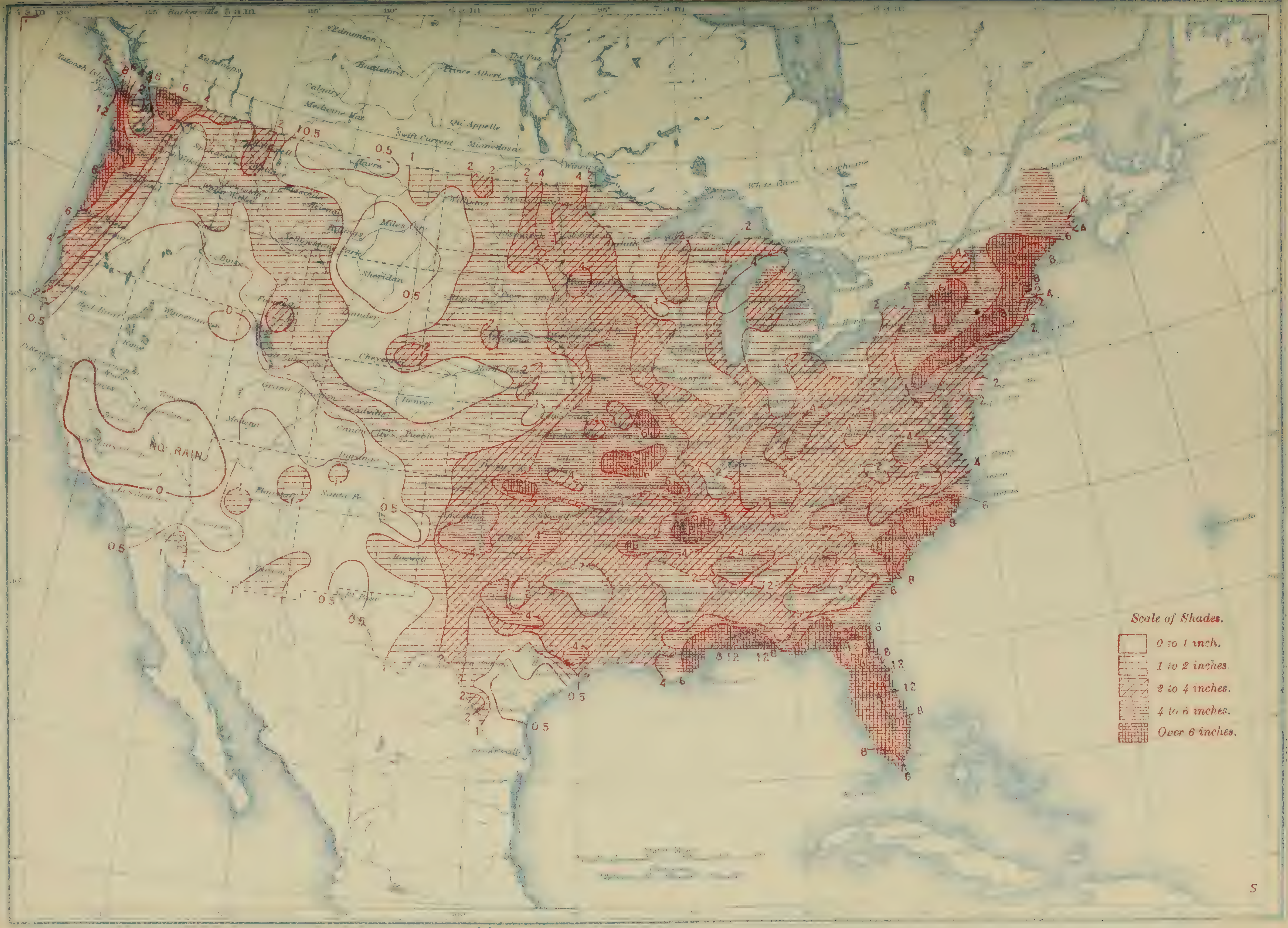
[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

Total Precipitation, Inches, September, 1920.



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CLIMATOLOGICAL DATA

MISSOURI SECTION

IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

OCTOBER, 1920

BY

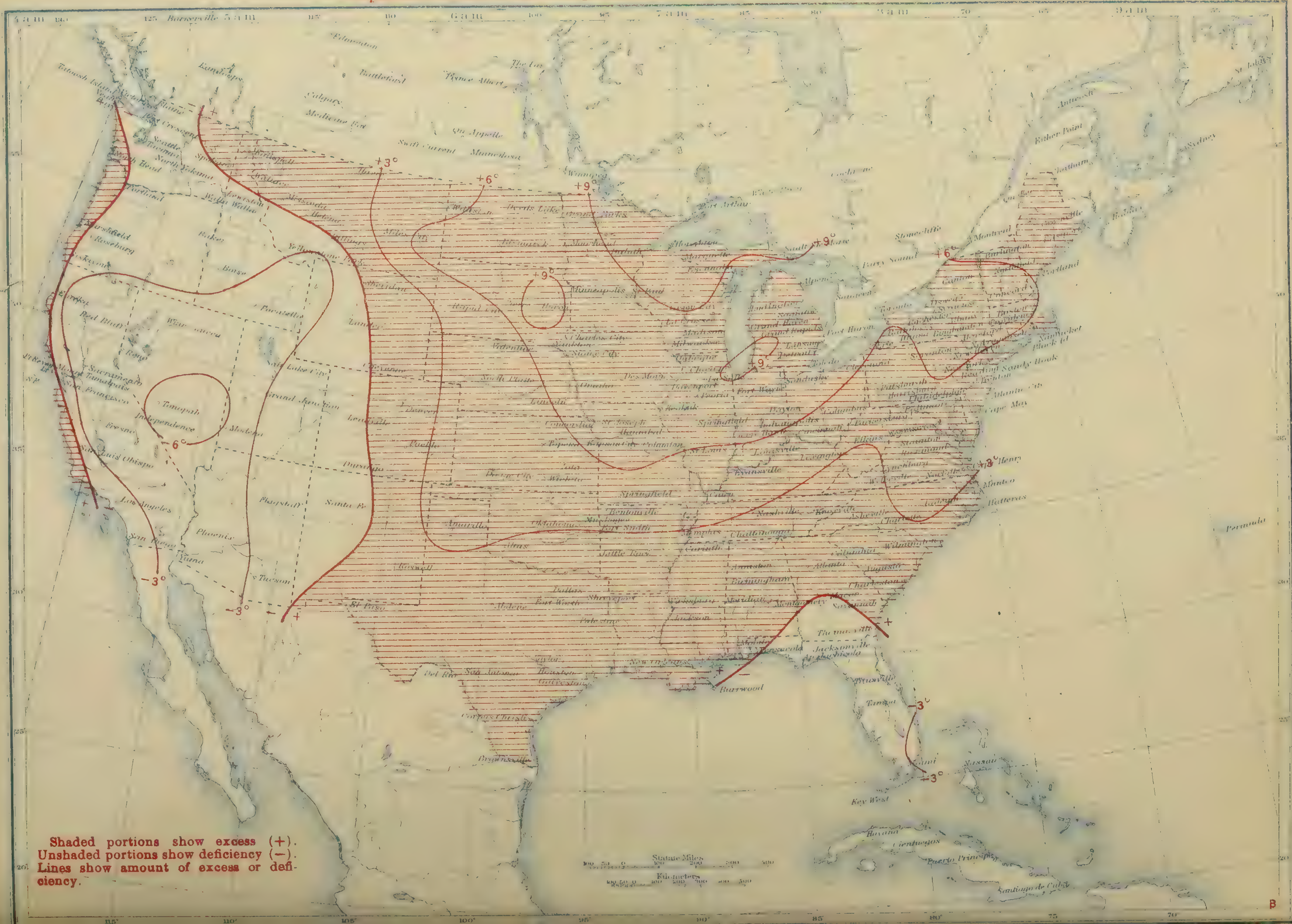
GEORGE REEDER

METEOROLOGIST

1862
1889

COLUMBIA, MO.
WEATHER BUREAU OFFICE
December 30, 1920

Departure of the Mean Temperature from the Normal, October, 1920.



Shaded portions show excess (+).
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency.

B

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXIV. Columbia, Mo., October, 1920. No. 10.

GENERAL SUMMARY.

October, 1920, in Missouri, was exceptionally mild, being the warmest month of its name since 1900. The sunshine and the precipitation were about normal.

The most conspicuous feature was the long period of open, mild, even summer-like, weather, following the frost of the 1st, until about the 15th when a rainy period set in. With deeply tinted forests of many colors, and warm, sunshiny days and pleasant nights the first half of the month was an almost continuous period of "beautiful weather", the term fittingly applied by the general public.

There was quite a heavy frost on the morning of the 1st, but the resulting damage was very slight; and while the latter half of the month was rather wet, it was mild, and the growing season did not fully close until the 29th, the date of the first general freeze.

Taken altogether it was a month highly suitable for out-door life, and farm pursuits; and, bearing in mind the high cost of all the necessities of life, the prolonged mild weather and vegetable growing season possessed great economic value to the people of this State.

At the close of the month practically all of the winter wheat crop had been sown, and much was up to good stands, the color and general condition being excellent. Only a small percentage of the late planted corn was damaged by the frost of the 1st. Pastures continued in excellent condition generally.

TEMPERATURE.

The monthly mean for the State, 63 stations reporting, was 61.3°. The departure from the normal for 60 stations having 10 or more years' record was plus 4.3°, and the greatest excess for this month since 1900. The temperature excess was quite evenly distributed, the Ozark Plateau being a little less warm than the other divisions. From about the 8th to the 25th, inclusive, temperatures were almost constantly above normal.

The coldest days were the 1st, 28th, and 29th, and these were the only days with freezing temperature. There was quite a heavy frost on the morning of the 1st, but the growing season continued until the 29th, when the first general freeze occurred. The highest temperature was 93°, on the 23rd at Caruthersville, and the lowest was 18°, at Bethany, and Edgerton, on the 29th.

PRECIPITATION.

The average precipitation for the State, 79 stations reporting, was 2.89 inches. The departure from the normal for 70 stations having 10 or more years' record was plus 0.25 inch. The precipitation was fairly well distributed, the southern half of the State receiving slightly more than the northern half. There was very little precipitation during the first 10 days, but it was rather frequent from about the 15th to the 27th, inclusive. The heaviest local monthly amount was 6.09 inches, at Neosho, and the least, 0.90 inch, fell at Downing. The greatest amount in any 24 hours was 2.45 inches, at Caruthersville on the 26th.

WIND.

The prevailing winds were from the south. The average monthly wind movement, 8 stations equipped with anemometers reporting, was 6,749 miles, or an hourly velocity of about 9.1 miles. This is about 6 per cent above normal for October. There were no damaging winds.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine for the State, based upon the records of 6 well-placed stations, was 229. This is 68 per cent of the possible, or about 2 per cent above normal; and about 22 per cent more than was experienced in October, 1919.

MISCELLANEOUS PHENOMENA.

Earthquake. — Slight tremors at 8.15 a.m., and again at 1.50 p.m. on the 3rd.

Fogs, dense. — 4th, 7th, 9th, 25th, and 29th.

Frosts, heavy. — On the 1st. Killing, at a few stations on the 1st, and general on the 29th.

Hail. — None reported.

Halos, solar. — 2nd, 10th, 12th, 13th, 15th, 16th, 22nd, 23rd, 24th, 30th, and 31st. Lunar. — 16th, 21st, 22nd, 24th, 30th, and 31st.

Thunder was heard on the 11th, 14th, 15th, 18th, 22nd, and 26th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
								Max. velocity.		
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Miles per hour.	Direction.	Date.
Columbia	30.07	83	......	220	64	5,359	7.2	28	sw.	15
Hannibal	30.08	81	......	......	......	5,948	8.0	33	se.	15
Kansas City	30.04	75	58	244	70	9,116	12.3	35	nw.	26
St. Joseph	30.02	78	61	217	63	5,916	8.0	26	s.	27
St. Louis	30.00	73	54	251	73	9,693	13.0	44	sw.	15
Springfield	30.08	82	68	228	66	8,017	10.8	31	s.	14
Cairo, Ill	30.12	81	61	......	......	4,947	6.6	33	n.	28
Keokuk, Iowa	30.08	76	60	216	71	4,988	6.7	24	sw.	15

COMPARATIVE DATA FOR OCTOBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	53.6	−3.5	89	24	2.65	+0.21	.....	.....	7	.....	.....	.....
1889	53.8	−3.3	91	27	2.50	+0.06	.....	.....	6	.....	.....	.....
1890	54.8	−2.3	91	22	2.24	−0.20	.....	.....	6	.....	.....	.....
1891	55.7	−1.4	98	19	1.11	−1.33	.....	.....	3	.....	.....	.....
1892	57.5	+0.6	95	16	2.28	−0.16	2.40	0	5	16	7	8
1893	56.7	−0.4	95	16	0.99	−1.45	2.81	.....	10	20	8	3
1894	57.6	+0.5	94	18	1.74	+0.70	3.52	T.	6	17	8	6
1895	54.2	−5.9	89	15	0.35	−2.09	1.20	T.	2	21	6	4
1896	54.1	−3.0	90	19	2.48	+0.04	2.68	0	5	19	6	6
1897	62.5	+5.4	99	23	0.71	−1.73	1.70	0	3	22	6	3
1898	53.5	−3.6	94	19	4.23	+1.79	4.51	1.4	8	11	7	13
1899	62.4	+5.3	100	24	2.93	+0.49	2.53	0	5	20	6	5
1900	62.4	+5.3	92	25	4.18	+1.74	4.04	0	7	17	7	7
1901	60.1	+3.0	96	24	1.64	−0.80	2.98	0	6	18	8	5
1902	59.5	+2.4	88	28	2.52	+0.08	2.69	0	5	21	5	5
1903	57.2	+0.1	90	19	2.85	+0.41	3.80	0	6	19	6	6
1904	57.6	+0.5	90	19	0.90	−1.54	2.46	0	3	20	7	4
1905	55.1	−2.0	90	20	4.64	+2.20	7.24	0.3	5	17	6	8
1906	56.3	−0.8	94	17	0.87	−1.57	1.50	0	10	15	7	9
1907	56.7	−0.4	94	18	2.90	+0.46	3.46	0	7	19	5	7
1908	56.3	−0.8	92	21	2.74	+0.30	4.90	0.8	5	18	6	7
1909	57.2	+0.1	96	20	2.77	+0.33	2.57	T.	6	19	5	7
1910	59.4	+2.3	94	15	2.71	+0.27	5.50	0	5	22	4	5
1911	56.9	−0.2	96	25	3.30	+0.86	5.12	0.2	8	11	7	13
1912	59.1	+2.0	97	21	3.83	+1.39	5.12	0.7	......	20	5	6
1913	54.7	−2.5	93	11	4.46	+1.94	2.80	3.3	9	15	6	10
1914	59.2	+2.0	88	19	4.54	+2.04	5.40	0	7	14	6	11
1915	59.8	+2.9	95	22	1.19	−1.45	1.97	0	3	23	5	3
1916	58.0	+0.7	95	20	2.17	−0.54	3.90	0	6	18	5	8
1917	49.8	−7.4	93	12	1.16	−1.49	2.00	0.2	6	16	8	7
1910	60.6	+3.5	95	28	3.37	+0.71	5.61	0	7	14	6	11
1919	58.4	+1.4	98	17	6.74	+3.92	4.91	0	11	10	7	14
1920	61.3	+4.3	93	18	2.89	+0.25	2.45	T	7	17	6	8

Climatological Data for October, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	39	62.2	+7.4	87	4	28	29	42	2.65	−0.20	0.59	0	9	20	0	11	se.	O.K. Benecke.
Clifton Hill	Randolph	731	21	62.1	+5.2	86	4†	26	29	34	1.90	+0.05	0.65	0	8	19	5	7	.....	L. S. Harlan.
Columbia	Boone	784	31	61.6	+6.8	83	10	25	29	34	2.67	+0.25	1.13	0	13	18	3	10	s.	U. S. Weather Bureau.
Downing	Schuyler	878	11	60.8	....	86	10	22	29	43	0.90	−1.46	0.40	T.	5	15	6	10	s.	E. E. St. Clair.
Fayette	Howard	725	41	60.0	+3.2	83	10†	24	29	36	2.79	+0.32	1.03	0	6	22	0	9	......	L. W. Jacobs, jr.
Fulton	Callaway	818	33	60.2	+2.6	84	4†	24	29	41	3.63	+1.13	1.55	0	10	13	11	7	s.	Westminster College.
Gorin	Scotland	700	32	......	....	......	......	......	......	....	1.54	−0.87	0.74	0	9	15	3	13	sw.	J. W. Pulliam.
Hannibal	Marion	534	37	61.4	+5.5	83	10	26	29	35	1.48	−0 16	0.51	0.1	12	16	5	10	s.	U. S. Weather Bureau.
Jefferson City	Cole	557	87	61.0	+4.5	85	10	26	29	38	4.13	+1.84	1.35	0	9	22	3	6	s.	Miss Emma Swift.
Kirksville	Adair	969	38	60.3	+6.3	87	10	24	29	37	1.15	−1.71	0.26	T.	5	13	8	10	s.	Prof. J. S. Stokes.
Louisiana	Pike	469	39	60.9	+4.8	85	10†	24	29	40	2.45	−0.05	0.72	T	10	19	4	8	w	J. T. Farrell.
Macon	Macon	875	26	60.8	+3.5	87	5†	25	29	43	2.31	−0.49	0.90	0	8	17	7	7	sw.	W. C. Brown.
Mexico	Audrain	797	41	60.8	+4.3	86	14	24	29	39	2.27	−0.04	0.88	0	8	21	2	8	s.	Mrs. Abbie Snoddy.
Palmyra	Marion	652	20	60.0^a	+2.6	83	10†	23	29†	43	1.48	−0.91	0.36	T.	9	14	5	12	sw.	W. B. Markell.
St. Catherine	Linn	850	9	60.6	....	83	4	24	29	34	1.42	....	0.36	0	9	16	8	7	sw.	L. D. Baker.
St. Charles	St. Charles	456	41	62.6	+4.7	86	4†	28	29	39	2.66	+0.15	1.23	T.	7	17	7	7	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	83	64.0	+5.6	85	10	35	29	28	2.36	−0.05	1.39	T.	9	17	9	5	s.	U. S. Weather Bureau.
St. Louis (2)	....do	578	8	63.0	+4.8	84	10	32	29	30	1.80	−1.38	0 66	T.	8	16	4	11	s.	St. Louis University.
Shelbina	Shelby	779	27	......	....	......	......	......	......	....	1.04	−1.98	0.39	0	5	....	....	....	......	S. G. Parsons.
Steffenville	Lewis	650	26	65.4	+8.2	89	10	24	29	41	1.98	−0.10	0.50	T.	8	12	12	7	s.	Frank Hall.
Unionville	Putnam	1,072	27	60.4	+5.0	86	10	24	29	36	2.23	- 0.21	0.95	0	8	17	6	8	s.	Geo. W. Davis.
Warrenton	Warren	865	38	60.6	+5.2	84	20	28	29	37	3.75	+1.02	1.00	0	10	10	14	7	s.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	48	61.6	+7.1	84	10	27	29	30	1.00	−1.49	0.34	T.	11	15	6	10	s.	U. S. Weather Bureau.
Section means and	extremes	....	....	61.5	+5.3	89	10	22	29	43	2.09	—0.36	1.39	T.	8	17	5	9	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	29	67.8	+6.7	93	23	31	29	44	4.44	+1.69	2.45	0	6	24	3	4	e.	H. E. Averill.
Doniphan	Ripley	344	16	60.6	+2.7	84	21	27	29	41	3.50	+0.68	1.10	0	8	21	4	6	s	W. W. Martin.
Jackson	Cape Girardeau	458	30	62.4	+4.8	87	21	23	29	40	2.90	−0.16	1.34	0	5	14	5	12	s	John J. Putz.
Marble Hill	Bollinger	420	26	......	......	......	......	......	......	....	......	....	......	......	....	....	....	....	......	F. W. Wells.
Parma	New Madrid	281	....	......	....	......	......	......	......	....	5.10	....	2.14	0	5	....	....	....	......	J. E. Pearce.
Patton (near)	Bollinger	500	10	......	......	......	......	......	......	....	3.47	+0.90	1.57	0	4	....	....	....	......	George F. Ellis.
Poplar Bluff	Butler	339	16	65.6	+5.9	90	19†	26	29	52	3.83	+1.07	1 12	0	7	19	2	10	......	Miss Belle Kinne.
Vanduser	Scott	304	....	......	......	......	......	......	......	....	4.21	....	2 05	0	4	....	....	....	......	M. L. Armstrong.
Cairo, Ill.	Alexander, Ill	359	45	63.9	+4.8	84	21	32	29	28	2.09	−0.54	1.17	0	4	15	4	12	s.	U. S. Weather Bureau
Section means and	extremes	....	....	64.1	+5.0	93	23	23	29	52	3.49	+0.61	2.45	0	5	18	4	9	s.	
Ozark Plateau.																				
Arcadia	Iron	925	42	59.5	+3.5	86	4	24	29	46	4.22	+1.30	1.34	0	8	17	8	6	w.	Arcadia College.
Aurora	Lawrence	1,370	....	......	......	......	......	......	......	....	......	....	......	......	....	....	....	....	......	C. D. Sprague.
Birchtree	Shannon	1,078	26	62.0	+4.0	85	4	25	29	37	4.13	+1.77	1.07	0	7	21	5	5	se	V. H. Kirkendall.
Bolivar	Polk	1,071	33	61.9	+3.6	86	4	27	29	39	4.11	+1.14	2.12	0	9	17	4	10	s.	K. H. Brown.
Cassville	Barry	1,475	21	......	......	......	......	......	......	....	......	....	......	......	....	....	....	....	......	R. H. Wallen.
Dean ‡‡	McDonald	1,000	21	......	......	......	......	......	......	....	5.35	+2.42	1.70	0	10	21	2	8	......	H. E. Dean.
Eldon	Miller	934	21	57.8	0.0	83	4	21	29	40	4.42	+1.92	1.40	0	9	9	15	7	s.	E. H. Shepherd.
Farmington	St. Francois	918	23	60.4	+5.0	81	4†	24	29	40	4.34	+1.90	1.37	0	9	15	11	5	sw.	Robert Forsyth.
Gano ‡‡	Dent	1,250	18	60.1	+2.4	81	9†	24	29	42	4.72	+1 29	2.09	0	9	17	8	6	s.	A. C. Leach.
Goodland	Iron	1,000	27	59.4	+3.9	84	4	22	29	44	4.78	+1.83	2.36	0	4	18	8	5	s.	F. M. Adams.
Hollister	Taney	735	17	62.0	+1.8	86	10	30	29	52	3.40	+1.05	1.05	0	6	22	0	9	sw.	W. P. Chapmann.
Houston	Texas	1,280	27	......	......	82	3†	......	......	....	4.39	+1.91	1.55	0	8	18	6	7	se.	Walter T. Beard.
Koshkonong	Oregon	958	19	61.9	+2.2	83	4	29	29	33	4.89	+2.33	1.75	0	8	19	6	6	sw.	K. M. Hitt.
Lebanon	Laclede	1,265	32	..	....	......	......	28	29	....	5.37	+2.50	1.98	0	7	25	4	2	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	24	62.3	+4.1	84	4	30	29	33	5.87	+2.92	2.36	0	7	19	2	10	sw.	C. S. Crow.
Mountain Grove	Wright	1,490	23	60.4	+3.1	84	4	29	29	37	4.64	+2.01	1.45	0	8	13	10	8	s.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	61.6	+2.5	85	4	29	29†	40	6.09	+3.00	2.20	0	7	20	2	9	sw	U. S. Fisheries Sta.
Rolla	Phelps	1,139	36	62.0	+6.7	84	4	26	29	36	4.21	+1.63	1.78	0	7	19	5	7	se.	Prof. Elmo G. Harris.
Seymour	Webster	....	..	60.0	+2.6	82	4	26	29	38	3.92	+0.97	1.11	0	8	21	2	8	s.	Ira H. Hailey.
Springfield	Greene	1,350	42	61.2	+3.9	82	4	33	29	28	4.09	+1.29	2.42	0	10	20	3	8	se.	U. S. Weather Bureau
Section means and	extremes	....	....	60.9	+3.3	86	4†	21	29	52	4.56	+1.81	2.42	0	8	18	6	7	s.	
Southwest Plain.																				
Amoret	Bates	831	13	60.2	+3.3	84	10	27	29	35	2.78	+0 46	1.07	0	9	13	5	13	se.	Darby Fruit Farm.
Appleton City	St. Clair	853	28	61.6	+2.6	84	4	30	29	32	1.97	—0.38	1.03	0	9	18	7	6	sw.	W. G. Bigelow.
Clinton	Henry	765	33	62.6^a	+4.2	87	4	26	29	37	2.84	+0.19	0.75	0	6	18^a	5^a	7^a	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	912	44	60.4	+4.5	86	4†	29	30	39	1.83	−0.77	0.91	0	7	13	6	12	se.	John H. Patterson.
Lamar	Barton	980	39	62.2	+3.4	88	4	31	28†	39	4.68	+1.76	1.47	0	10	21	1	9	se.	Joe W. Springer.
Lamonte	Pettis	863	33	62.0^a	+4.1	86	4	28	29	36	1.95	−0.29	0.60	0	7	14	14	3	s.	George B. Wagner.
Marshall	Saline	779	31	61.2^a	+4.7	84	10	25	29	37	2.65	+0.13	1.30	0	7	17	4	10	s.	Dr. W. H. Black.
Nevada	Vernon	860	28	61.8	+4.8	89	4	30	29	32	3.57	+0.67	1.04	0	9	14	7	10	s	George A. Kaupp.
Warrensburg	Johnson	883	42	......	......	......	......	......	......	....	......	....	......	......	....	....	....	....	......	S. I. Major.
Warsaw	Benton	715	25	62.7	+3.8	86	4†	24	29	37	4.62	+1.72	1.75	0	8	16	11	4	s.	J. R. Smith, M. D.
Section means and	extremes	....	....	61.6	+3.9	89	4	24	29	39	2.99	+0.39	1.75	0	8	16	7	8	s.	
Northwest Plateau.																				
Avalon	Livingston	730	30	62.4	+3.9	86	10	27	29	33	1.80	−1.38	0.65	0	4	18	7	6	sw.	F. G. Ashbaugh.
Bethany	Harrison	916	28	59.6	+5.3	85	10	18	29	50	1.65	−0.56	0.43	0	7	17	5	9	sw.	M. H. Moulton.
Chillicothe	Livingston	768	15	59.5	+0.2	88	4	24	29	48	1.66	—2.57	0.76	0	6	23	0	8	sw.	G. L. Fellinger.
Conception	Nodaway	982	35	60.5	+5.1	87	10	24	29	35	1.33	−1.14	0.64	0	5	13	11	7	sw.	Fr. Adelhelm Hess.
Edgerton	Platte	856	....	60.2^b	....	86	4	18	28	43	1.05	....	0.43	0	7	21^b	2^b	6^b	s.	Fred L. Stiff.
Grant City	Worth	1,134	29	59.0	+3.8	89	4†	27	28	40	2.10	−0.67	1.10	0	3	25	3	3	s	J. F. Hunter.
Kansas City	Jackson	963	31	62.4	+6.6	86	10	33	29	26	1.87	−0.34	0.81	0	7	17	5	9	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	33	59.4	+3.2	85	10	27	29†	42	1.36	—1.40	0.69	0	8	18	8	5	se.	Linn Terry.
Lexington	Lafayette	688	38	61.2	+3.7	86	4†	26	29	33	1.86	−0.75	1.20	0	5	19	1	11	s	J. W. Keithley.
Liberty	Clay	864	30	61.2	+3.8	88	10	27	29	36	1.55	−0.95	0.54	0	9	12	12	7	s.	James H. Harris.
Maryville	Nodaway	1,036	30	57.6	+4.4	86	10	24	29†	44	0.93	−1.90	0.60	0	5	21	4	6	s.	J. R. Brink.
Oregon	Holt	1,048	64	59.0	+4 1	88	4	26	29	31	1.36	−1.23	0.55	0	6	17	6	8	s.	Tom Curry.
St. Joseph	Buchanan	967	46	61.4	+5.1	88	10	27	29	33	2.22	−0.38	1.12	0	5	18	6	7	s.	U. S. Weather Bureau.
Tarkio	Atchison	976	27	58.6^m	+3.1	87	11	24	29	39	1.13	−1.38	0.42	0	5	19	10	2	sw.	John F. Frazier.
Trenton	Grundy	822	25	59.4	+2.9	83	10	28	29	27	2.87	+0.35	1.35	0	7	19	4	8	s.	W. H. Estes.
Section means and	extremes	....	....	60.2	+4.0	88	4†	18	29	50	1.62	—1.05	1.35	0	6	18	6	7	s.	
State means and	extremes	....	....	61.3	+4.3	93	23	18	29	53	2.89	+0.25	2.45	T.	7	17	6	8	.s	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing: for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows of Dean, Anderson: of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for Ootcber, 1920.

Stations.	Watersheds.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Northeast Plain.																																	
Boonville ‖	Missouri															.82			.04	.04		.24		.95	.48	.67	.14	.07					3.45
Brunswick ‖	Grand															.54	.05			.15	.05	.59			.33	.25	.57	.12					2.65
Clifton Hill	Chariton															.40		.01		.05	.16		.50		.07	.65	.06	T.				T	1.90
Columbia***	Missouri		T.												.31	.47		.09	.01	.02	.01		.13	.11	.69	.65	.08	.02				.08	2.67
Downing	Mississippi															T.			T.		.13		.04	T.		.40	.24		T.			.09	0.90
Fayette	Missouri														.55	.05					.25	.10	.81	T.	T.	1.03						T.	2.79
Fulton	do															.68		.11	.08	.02			.04	.07	1.55	.90	.03	.15					3.63
Glencoe ‖	Meramec																																
Gorin	Mississippi												.03		.02				.04	.02	.15		.02	.74		.42	.10						1.54
Hannibal***	do		T.										T.		T.	.22		.02	.20	.03			.10	.07	.25	.39	.04	.04	.03			.09	1.48
Hermann ‖	Missouri															.32			.13	.03	.08			.39	.76	1.54	.21	.21					3.67
Jefferson City ‖	do															.72	.05		.22	.03				.17	1.25	1.35	.12	.22					4.13
Kirksville	Mississippi															.23			.06		.26					.51			T.			.09	1.15
Louisiana	do															.28	.10		.06	.01				.48	.72	.50	.07	.15	.08				2.45
Macon ‖	Chariton											T.				.39			.04		.07	.17		.90	.12	.26	.36						2.31
Mexico ‖	Mississippi															.45		.30						.08	.38	.88	.06	.10	.02				2.27
Pacific ‖	Meramec													T.		.23			.16		.01			.60	.61	.35	.09	.32	T.				2.37
Palmyra ‖	Mississippi															.23			.28	.08	T.	T.		.06	.12	.26	.36	.06	.03				1.48
St. Catherine	Grand		.02										T.		T.	.36			.01	.18	.20		.06			.35	.21					.03	1.42
St. Charles	Missouri		T.													.17			.18	T.				.20	1.23	.20	.43	.25		T.			2.66
St. Louis (1)***	Mississippi												.08			.03		.09		T.			T.	1.21	.30	.28	.22	.14	T.			.01	2.36
St. Louis (2)	do												T.			.05		.08		T.			T	.66	.31	.35	.22	.12	T.			.01	1.80
Shelbina	do																		.30			.20		.10		.05	.39						1.04
Steffenville	do															.05		.30	.10		.50		.15	T.	.40	.38	.10		T.				1.98
Union ‖	Meramec															.28			.14	.01	.02			.29	1.16	.62	.60	.20					3.32
Unionville	Chariton														.70	.25			.12	.30	.34		.20			.20	.12						2.23
Valley Park ‖	Meramec																																
Warrenton ‖	Mississippi													.03		.25			.07	.01	.01			.49	.99	1.00	.48	.42		T.			3.75
Keokuk, Iowa***	do		T.												T.	.11		T.	.14	.01	.05		.01	.14	.04	.30	.04	T.	.01			.15	1.00
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi																		.26							1.46	.09	.22					3.03
Caruthersville	do															.03		T.		T.				.23	.90	.68	2.45	.15					4.44
Doniphan	Black															.05		T.		.10			.25	.28	1.10	.75	.77	.20					3.50
Jackson	Mississippi																	.02							.22	1.34	1.08	.24					2.90
Marble Hill	do																																
New Madrid ‖	do																								.09	1.50		1.86					3.45
Parma	do																							.22	.96	2.14	1.55	.23					5.10
Patton (near)	do																								.98	1.57	.45	.47					3.47
Poplar Bluff ‖	Black																		.20	T.			T.	.12	1.00	.97	.18	1.12				.24	3.83
Vanduser	Mississippi																							.61	2.05	.05	1.50						4.21
Cairo, Ill.***	do																							T.	.42	.50	1.09	.08	T				2.09
Ozark Plateau.																																	
Arcadia ‖	St. Francis															.19			.98	.03				.08	1.34	.78	.18	.64					4.22
Aurora	White																																
Birchtree	Black															.85		.31		.08				.68	1.07	.81	.33						4.13
Bolivar	Osage															2.12		.06	T.	.05	T.		1.02		.27	.32	.02	.23				.02	4.11
Dean	Neosho														1.70	.67		.39		.19			1.04		.33	.31	.17	.37				.18	5.35
Eldon	Osage															1.40		.15	.05				.25	.21	1.24	.66	.35	.11					4.42
Farmington	St. Francis																.05	.88	.01	.02			T.	.53	1.37	.78	.47	.23	T.				4.34
Gano	Meramec												.06			.47		.36		.25			.04	.37	2.09	.55	.23	.30					4.72
Goodland	Black															.75									2.36	1.40	.27						4.78
Hollister	White	.35															.55						.30	.70	1.05							.45	3.40
Houston	Gasconade															.30		1.27	T.				.10	.27	1.55	.65	.05	.30					4.39
Koshkonong	Black															.68		.20	.14					1.23	1.75	.10	.59	.20					4.89
Lebanon ‖	Osage															1.98			.23					.75	.70	.65	.78	.28					5.37
Lockwood	do															2.36		T.					1.28	.20	1.38	.22		.35				.08	5.87
Mountain Grove ‖	White													.12		.48			.82					.17	1.45	1.23	.07	.30					4.64
Neosho	Neosho															2.20		.30		.45			1.04	T.			.93	1.14				.03	6.09
Rolla ‖	Meramec															.55		.71					T.	.28	1.78	.39	.19	.31					4.21
Seymour	White															1.11		.41		T.			.78	.09	.85	.35	.08	.25					3.92
Springfield***	do												T.		2.22	.20		.10	T.	T.	T.		.33	.02	.62	.14	.28	.12				.06	4.09
Steelville ‖	Meramec															.40			.43	.05				.30	2.25	1.15	.38	.35					5.31
Tuscumbia ‖	Osage													.30		1.12	.14		.18	.02	T.			.28	1.16	.87	.05	.11					4.23
Southwest Plain.																																	
Amoret	Osage														.75	.07	.04		.07	.03			.30			1.07	.41					.04	2.78
Appleton City	do												.05			1.03		T.	.01	.06	.01		.30		.07	.43	.01	T.				T.	1.97
Clinton	do														.72					.10	.11		.66			.50	.75						2.84
Harrisonville ‖	do															.91				.19		.14	.06			.36	.13	.04					1.83
Lamar ‖	Neosho												.19			1.47			.13	.29			.51	.47	.20	1.19	.02	.21					4.68
Lamonte	Missouri															.38		.02	T.		.28		.29	.04	.34	.60							1.95
Marshall	do															.70		T.	.02	.15	.20		.18	T.		1.30	.10						2.65
Nevada	Osage												.25		1.04			.24	.13				.70		.35	.78	.01					.07	3.57
Osceola ‖	do												.32			1.58			.07					.48	.52	.58	.05						3.60
Warrensburg	Missouri																																
Warsaw	Osage												T.		T.	1.75		.06	T.	.25	.05		.70		.72	.91	.18						4.62
Waverly ‖	Missouri															.75				.24	.05	.26		.19		.24	.20	.12				T.	2.05
Northwest Plateau.																																	
Avalon	Grand															.65				.50					.30						.35		1.80
Bethany	do												.20	T.	.43	.05			.23	T.	T.		T.	.25		.09	T.					.40	1.65
Chillicothe ‖	do												.17			.76				.14			.12			.21						.26	1.66
Conception	Missouri											.04	.14		.64				T.	T.			.14									.37	1.33
Edgerton	Grand												.18		.43				.17		.05		.04	.07		.11							1.05
Grant City	do														1.10							.60									.40		2.10
Kansas City***	Missouri											T.			.81				.05	T.	.07		.25			.30	.01					.38	1.87
Kidder ‖	Grand												.19			.69				.10		.05	.01			.07	.20					.05	1.36
Lexington ‖	Missouri															1.20					.04			.04			.22	.36					1.86
Liberty	do												.05		.54	.08		T.	.05	T	.06		.10			.31	.03	T.				.33	1.55
Maryville ‖	do												.07			.60				T.			.05	.01								.20	0.93
Oregon	do											.19			.55				.13		T		.12			.02						.35	1.36
St. Joseph***	do											.13			1.12				T.	T.	T.		.37			.23						.37	2.22
Tarkio	do											.34			.18						.09		.10									.42	1.13
Trenton	Grand											.15		1.35					.78	T.	T.		.08			.15	.05					.31	2.87

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T, Trace, or less than 0.01 inch. *** Regular Weather Bureau station precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for October, 1920.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	68	78	85	87	80	77	79	82	86	88	85	82	83	84	72	82	80	82	81	81	84	68	71	62	51	51	53	49	57	70	66	74.3
	Minimum	32	39	51	55	48	43	45	45	59	56	57	59	54	61	63	48	54	61	63	61	59	61	59	49	47	47	37	34	28	33	46	50.1
Columbia	Maximum	61	74	80	83	73	69	73	78	82	83	82	81	80	81	73	79	72	80	77	77	82	71	69	62	53	53	51	49	52	68	66	71.4
	Minimum	33	44	55	58	50	47	45	49	48	57	59	64	62	64	55	50	56	62	64	63	60	63	60	49	50	47	40	30	25	42	52	51.7
Fayette	Maximum	60	74	79	82	72	70	73	78	82	83	83	80	78	81	72	80	72	78	75	72	81	66	68	60	51	48	45	48	53	68	63	70.2
	Minimum	32	38	54	52	47	43	39	42	47	53	54	60	62	60	58	50	51	61	62	63	57	58	59	49	47	45	37	28	24	34	51	48.9
Hannibal	Maximum	61	73	79	81	70	68	71	77	82	83	83	82	82	82	75	76	77	78	75	83	82	78	67	61	54	55	50	45	51	66	64	71.3
	Minimum	34	38	55	53	47	42	42	49	51	58	61	65	64	68	59	51	54	63	64	63	60	61	61	51	50	47	42	31	26	37	51	51.5
Jefferson City §§	Maximum	64	74	82	84	76	74	75	78	83	85	82	80	81	83	74	80	72	79	77	82	82	71	68	54	56	54	50	51	52	66	67	72.1
	Minimum	36	37	48	59	53	45	42	44	46	54	57	62	60	63	61	52	53	55	60	61	59	60	60	49	49	50	39	36	26	28	40	49.8
Kirksville	Maximum	72	74	82	83	71	74	75	80	84	87	83	82	82	81	72	79	77	79	76	73	82	71	68	65	53	50	52	48	54	68	62	72.2
	Minimum	36	37	51	53	46	39	42	47	53	58	48	60	63	64	60	51	46	59	59	59	57	60	57	49	43	44	38	33	24	32	33	48.4
Louisiana	Maximum	60	72	74	82	82	68	70	76	80	85	84	85	85	84	84	80	80	80	78	82	84	82	80	72	68	66	56	50	48	64	68	74.5
	Minimum	33	34	36	48	42	38	38	40	44	46	53	60	55	62	60	48	50	60	63	58	54	56	60	48	50	50	42	37	24	33	44	47.3
Macon §§	Maximum	66	78	85	87	75	75	77	83	85	87	86	83	84	84	74	81	74	82	78	73	83	71	69	64	50	50	53	50	57	70	66	73.5
	Minimum	33	37	45	55	45	42	43	46	48	53	57	57	60	61	60	48	50	61	59	60	56	56	59	47	45	45	35	33	25	27	11	48.0
Mexico §§	Maximum	61	75	81	83	71	70	73	79	83	84	84	82	82	86	75	79	80	80	78	83	85	77	67	57	56	56	54	49	53	65	67	72.7
	Minimum	34	36	44	54	48	41	44	46	47	50	57	59	60	62	60	50	51	53	60	60	59	60	59	48	48	49	41	39	24	29	44	48 9
St. Catharine	Maximum	60	73	78	83	77	72	72	77	80	82	82	80	80	81	74	75	77	77	73	73	80	75	68	63	56	51	51	42	51	67	61	70.7
	Minimum	30	39	49	64	58	43	40	58	50	55	57	58	60	64	60	44	63	65	60	61	59	62	57	49	42	44	35	34	24	36	49	50.6
St. Louis (1)	Maximum	61	72	81	84	71	69	71	78	82	85	83	79	82	82	76	79	83	81	79	82	83	81	69	62	65	60	52	48	51	64	65	72.9
	Minimum	42	46	59	64	57	51	52	52	56	57	62	60	60	65	62	58	61	65	63	61	62	62	61	57	57	51	45	38	35	39	46	55.0
Unionville	Maximum	63	74	82	84	74	75	76	78	84	86	84	85	82	80	72	75	76	77	73	70	81	73	72	65	54	56	52	46	52	67	60	71.9
	Minimum	30	38	50	52	42	40	42	48	54	56	58	56	60	64	57	48	50	58	60	58	70	62	56	43	40	44	36	34	24	35	50	48.9
Warrenton §§	Maximum	61	74	83	82	70	68	74	78	83	85	83	80	81	82	76	79	76	81	79	84	83	[illegible]	67	52	55	54	50	48	53	61	66	71.9
	Minimum	35	39	46	52	49	45	42	43	48	52	56	59	61	61	58	51	54	60	60	59	59	60	60	51	50	49	41	30	28	32	40	49.4
Southeast Lowlands.																																	
Caruthersville	Maximum	73	81	87	92	88	82	82	88	91	91	92	91	91	91	84	91	89	90	88	91	92	92	93	70	74	67	64	65	54	73	61	82.5
	Minimum	38	41	47	55	61	51	47	62	47	50	52	52	47	57	68	57	63	60	60	60	60	61	63	61	64	61	49	36	31	36	46	53.0
Doniphan	Maximum	62	71	78	83	79	72	70	75	78	81	81	81	81	82	74	78	78	82	82	83	84	80	70	75	74	70	61	59	54	60	62	74.2
	Minimum	34	35	46	53	59	45	39	37	37	43	46	47	54	56	60	47	54	56	55	52	50	52	52	52	61	57	46	32	27	30	44	47.0
Jackson	Maximum	50	62	72	75	75	65	77	82	85	86	85	85	85	83	79	84	82	85	84	86	87	85	78	70	69	65	61	60	55	66	64	75.1
	Minimum	46	50	44	64	60	54	52	50	58	55	54	50	51	56	62	48	49	54	50	49	47	49	53	59	61	59	41	31	23	26	32	49.6
Poplar Bluff	Maximum	79	80	80	84	85	80	75	80	80	84	86	85	84	80	80	83	81	80	90	90	89	88	85	85	71	74	64	75	78	80	70	80.8
	Minimum	49	49	48	49	50	60	50	45	45	50	50	60	60	56	56	60	60	60	52	52	51	51	51	51	61	58	47	47	26	30	27	50.4
Cairo, Ill	Maximum	60	69	77	82	76	70	70	74	78	81	81	81	82	81	78	80	83	83	80	82	84	82	80	66	73	66	59	56	53	62	62	73.9
	Minimum	41	44	52	59	55	50	46	46	50	55	57	58	60	64	66	58	60	63	62	60	61	63	62	62	62	59	43	36	32	37	49	53.9
Ozark Plateau.																																	
Arcadia §§	Maximum	66	72	80	86	75	73	76	80	81	82	81	81	79	81	74	79	78	81	78	79	81	78	67	64	70	60	53	56	56	65	63	73.4
	Minimum	32	33	42	56	47	40	34	31	35	40	45	55	56	59	62	44	48	52	55	54	49	50	53	59	60	56	42	34	24	26	38	45.6
Birchtree	Maximum	65	70	74	85	77	73	79	82	83	82	81	82	80	75	72	76	68	79	77	79	80	73	74	72	73	67	57	57	55	65	65	73.5
	Minimum	33	39	51	57	48	42	42	46	49	52	54	54	60	62	60	60	60	58	59	57	57	57	57	58	59	53	41	33	25	34	45	50.4
Eldon	Maximum	45	72	77	83	75	70	72	76	79	80	80	82	76	80	70	60	65	79	78	80	81	82	67	58	55	54	50	52	55	66	69	69.9
	Minimum	32	32	44	55	48	37	37	45	41	47	50	55	58	61	43	43	50	56	61	58	53	53	54	47	47	45	33	28	21	35	45	45.6
Farmington	Maximum	59	69	80	81	75	67	74	78	80	81	80	78	78	80	75	78	78	77	79	81	81	76	68	67	69	66	54	49	56	65	65	72.4
	Minimum	35	37	52	57	53	43	38	38	42	46	46	59	53	60	61	47	52	57	56	58	53	55	60	55	59	54	41	35	24	31	42	48.4
Gano	Maximum	64	74	80	80	74	68	73	77	81	81	80	76	78	79	73	77	73	75	77	79	80	75	65	62	67	66	53	55	55	64	65	71.8
	Minimum	32	32	52	62	52	40	40	40	40	50	54	57	57	62	59	48	51	60	58	57	53	58	58	55	53	49	39	33	24	30	46	48.4
Hollister	Maximum	70	78	87	80	84	78	80	80	85	86	85	85	82	80	80	70	75	80	82	84	85	78	67	66	60	60	55	65	63	70	65	75 6
	Minimum	33	35	50	56	57	40	40	40	40	44	45	64	51	58	45	51	58	61	60	60	54	54	60	50	55	50	40	35	30	34	46	48.3
Koshkonong	Maximum	62	72	80	83	79	73	72	78	81	82	82	82	78	80	73	76	71	81	82	81	80	74	68	64	72	63	59	59	55	66	61	73.2
	Minimum	37	42	48	59	59	47	43	45	49	54	55	56	56	55	62	53	53	50	54	55	57	58	60	59	61	54	43	35	29	35	47	50.6
Lebanon §§	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum	32	32	43	56	53	39	40	44	47	50	50	47	55	55	58	49	49	49	61	60	60	60	58	50	49	49	38	30	28	29	38	46.8
Mountain Grove	Maximum	64	70	79	84	76	72	72	75	79	80	78	79	78	76	73	74	68	73	77	78	79	69	67	61	60	56	50	55	55	61	64	70.4
	Minimum	32	34	42	53	58	42	48	53	54	56	63	56	58	60	57	50	54	59	60	64	66	63	58	54	52	51	36	34	29	32	38	50 5
Neosho	Maximum	67	76	81	85	80	74	76	79	81	84	80	83	80	79	71	79	73	75	77	80	84	75	75	68	61	68	50	60	55	69	62	73.9
	Minimum	32	41	56	58	53	39	40	44	46	52	55	64	58	62	58	45	49	55	61	61	56	60	54	52	52	47	38	32	29	29	50	49.3
Rolla §§	Maximum	68	72	81	84	75	72	75	79	82	82	80	79	78	80	75	80	67	79	78	81	82	76	65	62	63	58	52	59	50	68	69	72.6
	Minimum	32	41	56	60	55	45	42	47	47	56	57	62	61	64	60	49	56	53	62	60	59	59	60	54	52	51	40	40	26	40	48	51.4
Springfield	Maximum	63	74	79	82	75	69	71	74	78	80	78	80	77	76	69	72	65	74	75	78	78	66	67	60	61	53	49	55	57	54	61	69.7
	Minimum	37	46	56	62	56	50	49	50	53	57	59	61	61	60	58	53	58	61	62	63	61	61	59	51	51	45	39	35	33	42	50	52.9
Southwest Plain.																																	
Amoret	Maximum	65	75	80	78	78	71	75	78	82	84	82	83	77	75	71	77	71	72	74	78	81	72	70	65	51	52	53	53	61	68	63	71.5
	Minimum	34	42	53	52	54	44	44	45	47	53	57	55	62	60	52	47	49	55	61	54	56	59	57	49	44	44	35	30	27	42	50	48 8
Appleton City	Maximum	65	75	80	81	77	71	76	78	81	83	81	82	78	77	67	78	68	75	75	79	81	72	72	65	52	51	53	55	60	66	65	71.7
	Minimum	37	43	56	60	57	48	45	46	49	57	57	58	62	65	58	49	53	58	62	65	59	61	60	48	48	47	37	33	30	42	51	51.6
Clinton	Maximum	65	78	83	87	80	75	78	81	85	86	84	84	79	80	72	71	75	78	78	79	80	71	74	....	65	54	58	54	63	62	68	^{a}74.2
	Minimum	35	45	54	57	55	43	42	45	45	53	65	57	61	65	60	46	55	62	61	63	56	61	60	....	36	47	46	40	26	40	50	^{a}51.0
Harrisonville §§	Maximum	68	73	80	86	79	73	76	78	84	86	81	81	77	74	72	78	67	71	73	77	78	69	70	57	48	52	56	54	57	68	62	71.1
	Minimum	34	38	56	68	53	48	46	46	46	51	55	56	59	62	56	59	52	59	58	61	59	60	52	49	44	44	34	31	32	29	44	49.7
Lamar §§	Maximum	68	83	84	88	82	76	79	81	84	85	83	84	79	79	69	81	69	76	78	82	84	69	76	50	54	53	56	61	66	69	65	74.0
	Minimum	33	44	52	60	53	42	42	45	47	54	55	59	61	63	56	48	52	57	61	62	63	60	58	49	47	46	36	31	31	44	52	50.4
Lamonte	Maximum	....	77	83	86	77	73	73	76	81	82	80	80	81	79	80	80	79	79	76	76	80	66	71	66	55	50	51	50	55	55	66	^{a}72.1
	Minimum	29	43	47	54	45	40	40	55	61	59	60	61	60	62	63	64	58	62	63	64	62	58	59	55	46	47	38	33	28	41	52	51.9
Marshall	Maximum	64	74	80	83	77	72	74	81	82	84	82	80	78	80	79	79	72	79	75	76	81	75	73	....	59	65	53	50	60	65	65	^{a}73.2
	Minimum	34	37	50	55	52	45	42	44	46	51	54	60	64	62	62	47	50	58	60	58	56	60	58	....	46	47	35	32	25	30	55	^{a}49.3
Warrensburg	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
Warsaw	Maximum	65	76	82	86	82	72	75	81	83	85	84	86	80	82	74	81	69	80	80	82	83	75	76	65	55	56	52	55	60	68	68	74.1
	Minimum	33	39	57	56	50	40	38	44	53	55	53	58	63	68	63	64	50	59	61	64	57	60	62	50	50	48	38	34	24	44	53	51.3
Northwest Plateau.																																	
Chillicothe §§	Maximum	65	76	80	88	81	77	80	84	81	86	88	84	86	81	76	81	77	78	76	75	84	79	78	65	58	54	54	52	50	70	67	74.5
	Minimum	29	40	42	40	41	39	40	41	40	46	44	41	40	41	41	40	51	57	61	60	65	61	60	55	44	45	35	31	24	37	50	44.5
Grant City	Maximum	68	85	82	89	84	81	75	86	84	88	89	80	78	80	75	77	71	69	66	64	70	72	70	60	50	46	44	42	46	46	52	70.1
	Minimum	43	45	51	51	50	49	47	56	55	57	54	54	52	62	46	[illegible]	52	60	62	62	60	47	56	38	31	31	31	27	30	34	36	47.8
Kansas City	Maximum	65	72	82	83	76	72	75	78	81	86	81	81	78	72	68	79	70	71	73	74	80	69	67	60	52	57	52	50	56	67	60	70 5
	Minimum	42	46	59	64	59	53	53	54	57	64	62	61	65	61	56	55	56	62	64	66	64	61	53	48	45	46	38	36	33	44	52	54.2
Kidder §§	Maximum	57	60	80	82	79	74	77	78	84	85	83	81	80	77	69	79	75	72	73	70	82	68	68	62	46	58	51	47	55	69	59	70.3
	Minimum	34	42	46	58	62	42	44	47	47	54	57	59	59	63	59	47	51	53	60	61	59	59	49	45	43	43	34	31	27	27	39	48.4
Lexington §§	Maximum	65	75	81	86	80	74	75	78	82	86	82	80	79	77	72	80	75	76	75	78	82	72	68	60	48	52	52	51	57	67	64	71.9
	Minimum	32	42	51	55	51	42	45	47	50	61	60	62	64	64	61	49	50	58	62	62	60	54	53	50	45	46	35	34	26	40	54	50.5
Maryville §§	Maximum	65	72	83	83	79	72	75	80	82	86	82	79	80	75	71	77	75	72	71	76	79	67	64	61	52	55	52	47	55	68	57	70.7
	Minimum	29	29	41	53	50	46	45	45	50	52	55	53	51	62	52	44	41	50	58	60	60	58	41	40	35	37	31	26	24	24	37	44.6
Oregon	Maximum	61	70	77	88	75	70	73	77	80	84	81	75	79	73	67	73	72	71	71	72	76	70	62	59	52	53	52	44	53	67	62	69.0
	Minimum	35	43	48	57	51	47	47	53	53	59	60	50	64	61	55	50	50	58	61	64	61	58	43	43	39	38	32	28	26	40	48	49.1
St. Joseph	Maximum	66	73	82	84	79	75	77	81	84	88	83	79	80	72	67	79	75	69	72	74	80	71	66	62	51	58	52	47	57	68	59	71.3
	Minimum	33	46	50	56	53	46	49	57	55	62	65	57	68	62	56	48	54	61	64	66	64	57	45	46	43	44	36	29	27	42	52	51.4
Trenton	Maximum	58	70	76	79	73	68	70	73	76	83	80	76	78	78	72	73	73	73	72	73	76	70	68	60	55	58	51	48	50	62	61	68.8
	Minimum	33	41	49	52	50	42	45	48	52	58	59	60	62	59	48	52	58	61	58	61	60	61	56	46	45	45	35	35	28	38	51	49.9

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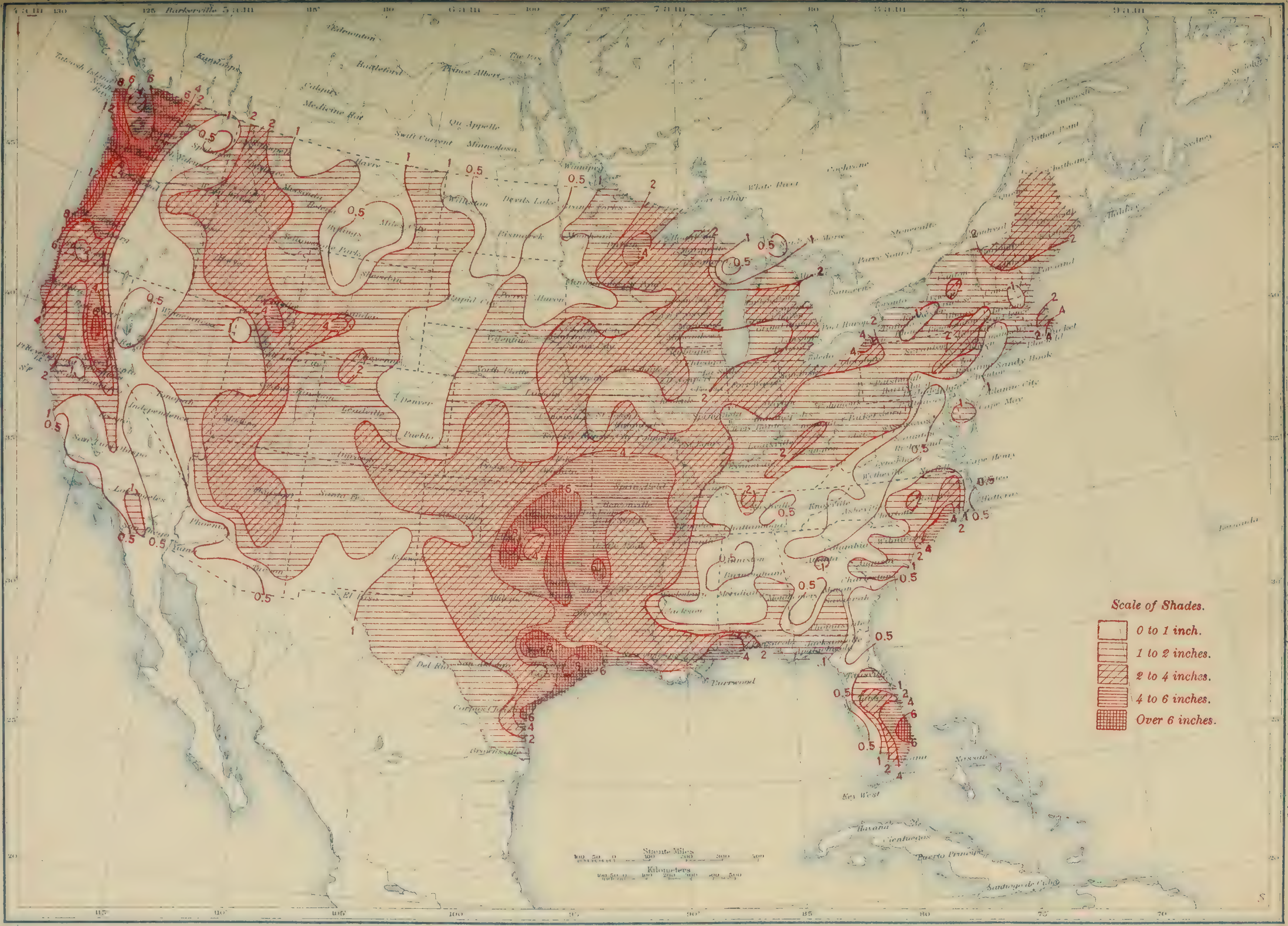
^{a}, ^{b}, ^{c}, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged t the preceding day, on which it almost always occurs.

Total Precipitation, Inches, October, 1920.



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CLIMATOLOGICAL DATA

MISSOURI SECTION

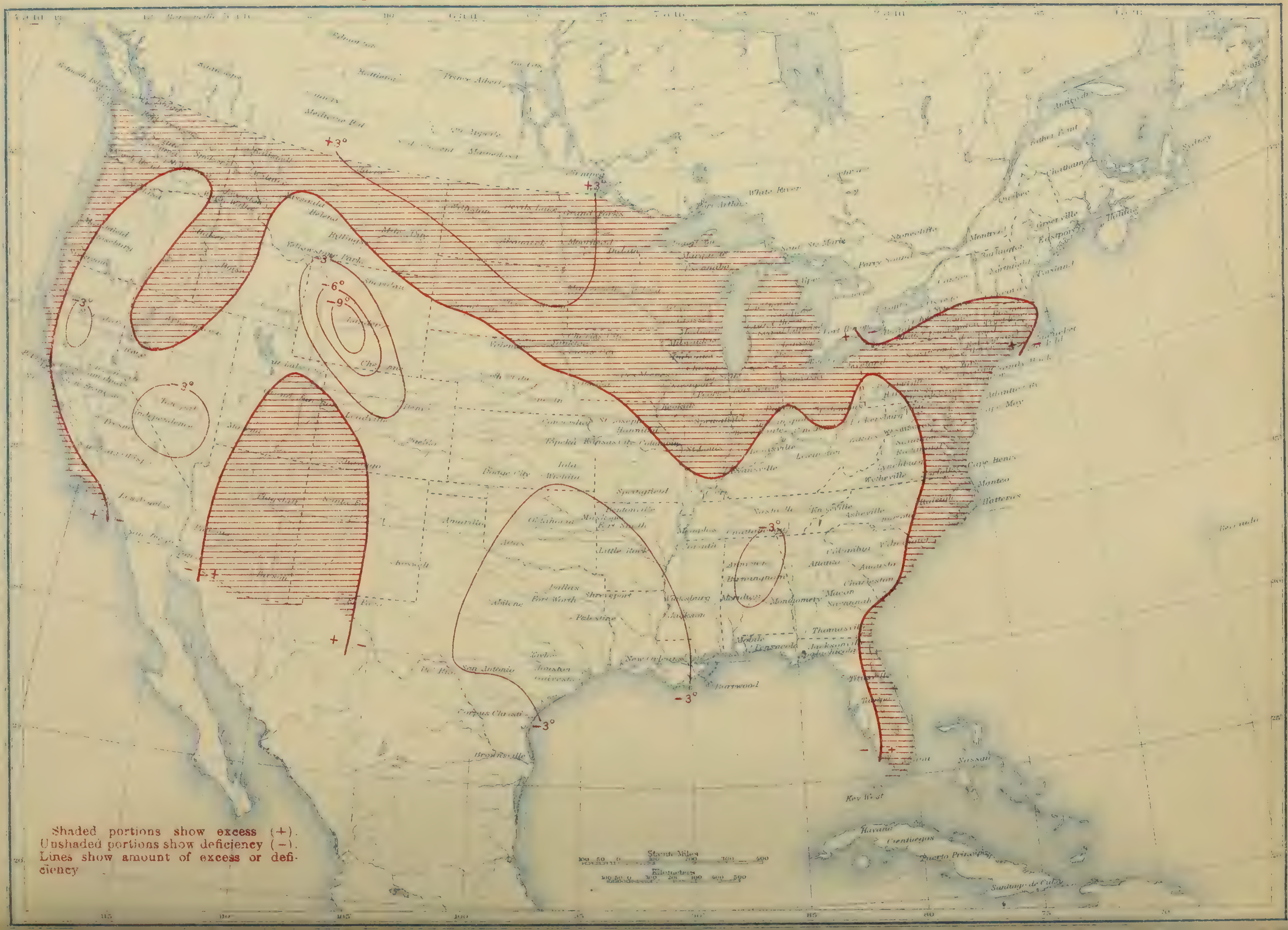
IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

NOVEMBER, 1920

BY
GEORGE REEDER
METEOROLOGIST

COLUMBIA, MO.
WEATHER BUREAU OFFICE
JANUARY 21, 1921

Departure of the Mean Temperature from the Normal, November, 1920.



Shaded portions show excess (+).
Unshaded portions show deficiency (−).
Lines show amount of excess or deficiency

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXIV. Columbia, Mo., November, 1920. No. 11.

GENERAL SUMMARY.

November, 1920, in Missouri, was somewhat colder and drier than usual, but the percentage of sunshine and the movement of winds were nearly normal.

Except for the quite severe cold period, from about the 10th to the 17th, inclusive, during which there were several typical winter days, the month was generally favorable for outdoor pursuits. The highways were in good condition most of the time, and automobile travel was heavy.

Wheat made fair growth, and the condition was good generally, save a few fly infested spots in some of the early sown. Corn husking and cribbing made about the average progress. Pastures continued to furnish good grazing, and live stock enter winter in fine condition.

TEMPERATURE.

The monthly mean for the State, 67 stations reporting, was 40.9°. The departure from the normal for 64 stations having 10 or more years' record was minus 3.5°, and the largest deficiency since 1911. Mild and cold periods of from three to seven days followed each other quite regularly, the longest period, from the 10th to the 17th, inclusive, being quite typical winter. On the 13th, the coldest day, 35 stations reported readings of from 6° to 10° above zero. Monthly means varied from 35.2° at Maryville to 48.6° at Caruthersville. The average number of days with minimum 32 was 17. There were no zero temperatures.

PRECIPITATION.

The average precipitation, as shown by the records of 85 stations, was 1.21 inches. The departure from the normal for 79 stations having 10 or more years' record was minus 1.09 inches. Precipitation was below normal, except in the northwestern plateau; and the deficiency was quite marked in all other divisions. Precipitation was general on the 1st, from the 7th to the 9th, and the last two days; occasional and light from the 10th to the 28th. Appreciable snow fell on the 15th at nine stations, the heaviest fall being 1.0 inch, at Unionville.

WIND.

The prevailing winds were from the northwest. The average monthly movement, 8 stations equipped with anemometers reporting, was 6,830 miles, or an average hourly velocity of 9.5 miles. This is about the usual for this month. Brisk winds occurred on the 1st, and 20th, but no damage was reported.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well selected regular stations equipped with sunshine recorders reporting, was 139, or about 47 per cent of the possible, and about 10 per cent less than normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense. — 7th, 8th, and 28th.

Halos, solar. — 5th, 6th, 7th, 11th, 17th, 19th, and 28th. Lunar. — 3rd, 19th, 25th, and 27th.

Sleet. — St. Louis on the 26th; Springfield, 15th, and at Kansas City on the 21st.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.16	83	......	154	51	5,716	7.9	27	sw.	1
Hannibal	30.16	79	......	......	......	6,143	8.5	27	w.	1
Kansas City	30.17	77	65	160	53	8,103	11.3	33	nw.	21
St. Joseph	30.15	82	68	116	39	6,175	8.6	35	nw.	1
St. Louis	30.00	73	57	150	50	9,207	12.8	36	s.	20
Springfield	30.18	83	67	150	49	7,426	10.3	30	s.	20
Cairo, Ill	30.19	79	61	......	......	6,421	8.9	33	n.	12
Keokuk, Iowa	30.17	76	67	124	41	5,447	7.6	29	w.	2

COMPARATIVE DATA FOR NOVEMBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	41.6	−2.0	87	15	3.26	+0.94	.....	.....	11	.....	.....	.....
1889	39.9	−3.7	73	8	3.43	+1.11	.....	.....	7	.....	.....	.....
1890	46.5	+2.9	80	20	2.31	−0.01	.....	.....	5	.....	.....	.....
1891	39.6	−4.0	82	−2	3.60	+1.28	.....	.....	5	.....	.....	.....
1892	40.1	−3.5	79	9	2.60	+0.28	.....	1.0	6	11	7	12
1893	40.9	−2.7	79	−1	1.54	−0.73	4.86	0.3	4	14	9	7
1894	41.0	−2.6	80	3	1.58	−0.74	2.20	T.	4	15	9	6
1895	41.6	−2.0	82	2	3.37	+1.05	2.98	3.2	8	10	7	13
1896	42.3	−1.3	82	5	2.18	−0.14	4.00	0.2	6	11	7	12
1897	43.4	−0.2	82	−3	2.40	+0.08	3.39	T.	6	13	8	9
1898	39.9	−3.7	79	−8	2.28	−0.04	2.75	2.3	6	14	8	8
1899	49.5	+5.9	82	16	1.90	−0.42	2.66	0.2	7	11	9	10
1900	43.7	+0.1	84	7	2.58	+0.26	4.55	0.2	6	15	7	8
1901	43.6	0.0	84	9	1.38	−0.94	1.90	0.3	4	17	7	6
1902	50.1	+6.5	85	18	3.62	+1.20	2.14	0.4	9	8	9	13
1903	40.9	−2.7	79	2	1.24	−1.08	2.44	1.1	5	13	8	9
1904	46.3	+2.7	83	11	0.22	−2.10	0.68	T.	2	21	5	4
1905	45.8	+2.2	83	2	1.94	−0.38	2.49	T.	6	18	6	6
1906	42.5	−1.1	88	−3	2.60	+0.28	3.60	5.0	8	12	6	12
1907	43.8	+0.2	88	5	2.52	+0.20	3.00	T.	4	19	4	7
1908	47.6	+4.0	87	9	4.14	−1.82	4.00	0.2	8	15	7	8
1909	53.6	+10.0	87	11	4.43	+2.11	6.18	0.4	8	12	7	11
1910	42.0	−1.6	83	11	0.38	−1.94	0.70	0.1	3	15	8	7
1911	39.1	−4.5	93	−3	2.55	+0.23	2.15	1.1	7	13	6	11
1912	45.9	+2.3	88	12	1.52	−0.80	2.37	0.1	3	20	5	5
1913	51.7	+7.4	80	11	2.73	+0.35	2.50	T.	7	10	8	12
1914	48.6	+4.0	89	2	0.65	−1.84	1.90	0.1	3	19	6	5
1915	49.5	+4.9	87	12	2.76	+0.33	2.62	0.1	5	16	7	7
1916	49.6	+5.9	85	3	2.49	+0.14	2.53	0.1	4	19	4	7
1917	46.1	+1.5	80	8	1.05	−1.46	3.26	T.	3	14	5	11
1918	44.9	+0.5	85	12	3.18	+0.79	4.60	1.2	6	15	4	11
1919	42.2	−2.2	78	2	3.62	+1.40	3.36	1.0	6	15	5	10
1920	40.9	−3.5	82	6	1.21	−1.09	1.89	T.	6	12	6	12

Climatological Data for November, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	39	39.9	−1.3	72	19	9	12	39	1.65	−0.31	0 95	T	7	17	0	13	nw.	O.K. Benecke.
Clifton Hill	Randolph	731	21	40.9	−2.8	70	19	10	13	35	1.34	−0.39	0.61	0	6	15	5	10	...	L. S. Harlan.
Columbia	Boone	784	31	40.8	−1.6	72	20	11	13	31	0.63	−1.68	0.22	0.3	7	12	6	12	s	U. S. Weather Bureau.
Downing	Schuyler	878	11	38.6	...	70	20	7	13	40	1.76	+0.07	0.55	T.	10	6	7	17	w.	E. E. St. Clair.
Fayette	Howard	725	41	38.8	−3.8	70	18†	9	13	47	0.38	−1.67	0.22	0	3	13	1	16	...	L. W. Jacobs, jr.
Fulton	Callaway	818	33	41.1	−3.4	70	19†	10	13	43	0.81	−1.59	0.20	0.1	5	14	6	10	se.	Westminster College.
Gorin	Scotland	700	32	...	...	...	...	...	...	...	1 56	−0.40	0.61	0	6	8	3	19	nw.	J. W. Pulliam.
Hannibal	Marion	534	37	40.0	−0.5	71	20	13	13	29	0.95	−1.00	0.46	T.	8	10	6	14	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	87	40.0	−4.4	71	20	12	13	50	0.86	−1.43	0.20	T.	7	18	4	8	n.	Miss Emma Swift.
Kirksville	Adair	969	38	37.8	−2.5	68	20	9	13	37	1.33	−0.42	0.53	T.	4	10	3	17	sw.	Prof. J. S. Stokes.
Louisiana	Pike	469	39	41.5	−2.6	70	7†	10	13	37	1.55	−0.66	0.48	0.2	7	12	5	13	w	J. T. Farrell.
Macon	Macon	875	26	38.5	−5.7	70	20	10	13	39	2.01	+0.06	0.84	0	8	10	8	12	se.	W. C. Brown.
Mexico	Audrain	797	41	39.9	−3.2	70	20	11	13	35	0.79	−1.61	0.22	0.5	7	19	1	10	w.	Mrs. Abbie Snoddy.
Palmyra	Marion	652	20	36.8	−6.3	66	7	9	12	39	1.16	−1.15	0.41	T.	8	12	8	10	sw.	W. B. Markell.
St. Catherine	Linn	850	9	38.5	...	70	20	8	13	32	1.89	...	0.70	0.5	11	10	9	11	sw.	L. D. Baker.
St. Charles	St. Charles	456	41	43.6	−1.7	72	6	12	11	33	0.30	−2.34	0 13	T.	3	17	4	9	nw.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	83	43.7	+0.3	72	20	19	12	27	0.56	−2.32	0.25	T.	5	10	9	11	s	U. S. Weather Bureau.
St. Louis (2)	do	578	8	42.3	−5.0	71	20	17	13	29	0.68	−1.63	0.38	T.	5	10	6	14	nw.	St. Louis University.
Shelbina	Shelby	779	27	...	...	...	...	...	...	...	0.80	−1.31	0.40	0	3	...	...	...	...	S. G. Parsons.
Steffenville	Lewis	650	26	40.3^{a}	−3.5	72	20	10	16	36	1.57	−0.36	0.60	T.	7	7^{a}	11^{a}	11^{a}	w.	Frank Hall.
Unionville	Putnam	1,072	27	37.8	−2.2	67	20	9	13	32	2.39	+0.70	0.85	1.0	7	16	4	10	n.	Geo. W. Davis.
Warrenton	Warren	865	38	40.6	−2.3	72	20	11	13	37	0.69	−1.95	0.26	T.	8	10	8	12	nw.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	48	39.2	−0.2	68	20	12	12	29	0.98	−0.87	0.47	T.	9	9	4	17	w.	U. S. Weather Bureau.
Section means and	extremes	...	...	40.0	−2.8	72	6†	7	13	50	1.16	−1.01	0.95	0.1	7	12	5	13	w.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	29	48.6	−1.2	82	6	20	13	42	0.96	−2.87	0.52	T.	3	13	5	12	e.	H. E. Averill.
Doniphan	Ripley	344	16	43.6	−4.3	72	4†	13	13	39	0.95	−1.99	0.50	T.	4	19	3	8	nw.	W. W. Martin.
Jackson	Cape Girardeau	458	30	43.4	−3.4	76	4	11	13	45	0.43	−2.66	0.20	T.	5	10	2	18	n.	John J. Putz.
Marble Hill	Bollinger	420	26	...	...	75	11	...	...	...	...	...	...	...	...	12^{b}	5^{b}	7^{b}	n.	F. W. Wells.
Parma	New Madrid	281	...	...	...	...	...	...	...	...	0.91	...	0.30	0	5	...	...	...	...	J. E. Pearce.
Patton (near)	Bollinger	500	10	...	...	...	...	...	...	...	1.24	−0.84	0.71	0	3	...	...	...	...	George F. Ellis.
Poplar Bluff	Butler	339	16	45.7	−1.9	76	8	20	14†	46	0.11	−3.14	0.11	0	1	20	2	8	...	Miss Belle Kinne.
Vanduser	Scott	304	...	...	...	...	...	...	...	...	0 62	...	0.25	0	6	...	...	...	...	M. L. Armstrong.
Cairo, Ill.	Alexander, Ill	359	45	44.5	−2.4	73	6	19	13	29	0.70	−3.32	0.30	T.	6	11	4	15	n.	U. S. Weather Bureau
Section means and	extremes	...	...	45.2	−2.6	82	6	11	13	46	0.74	−2.47	0.71	T.	4	14	4	12	n.	
Ozark Plateau.																				
Arcadia	Iron	925	42	41.1	−3.0	72	20	8	13	49	0.72	−2.92	0.28	0.1	5	15	3	12	w.	Arcadia College.
Aurora	Lawrence	1,370	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	C. D. Sprague.
Birchtree	Shannon	1,078	26	44.2^{a}	−2.4	74	6	9	13	40	1.72	−1.11	0.72	0	4	20	0	10	s.	V. H. Kirkendall.
Bolivar	Polk	1,071	33	43.0	−4.0	72	6	10	13	36	0.50	−2.09	0.14	0	7	14	4	12	nw.	K. H. Brown.
Cassville	Barry	1,475	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	R. H. Wallen.
Dean ‡‡	McDonald	1,000	21	...	...	...	...	...	...	...	0.98	−2.02	0.33	0	5	12^{f}	0^{f}	12^{f}	w.	H. E. Dean.
Eldon	Miller	934	21	39.1	−6.5	72	6	8	13	31	0.54	−1.71	0.21	0	4	4	16	10	ne.	E. H. Shepherd.
Farmington	St Francois	918	23	42.2	−2.3	72	20	11	13	30	0.92	−3.18	0.32	0.2	5	11	7	12	sw.	Robert Forsyth.
Gano ‡‡	Dent	1,250	18	41.4	−6.0	71	6†	7	13	34	0.49	−1.91	0.16	T	4	15	4	11	nw.	A. C. Leach.
Goodland	Iron	1,000	27	41.9	−2.8	74	6	6	13	46	1.05	−1.89	0.50	0	3	20	2	8	n.	F. M. Adams.
Hollister	Taney	735	17	43.8	−4.6	74	19	10	13†	46	0.20	−2.56	0 20	0	1	18	0	12	se.	W. P. Chapmann.
Houston	Texas	1,280	27	...	...	74	6	...	...	...	0.59	−1.90	0.17	T.	5	17	4	9	nw.	Walter T. Beard.
Koshkonong	Oregon	958	19	45.2	−4.6	74	6	13	13	33	0.81	−2.08	0.31	T.	4	14	3	13	nw.	R. M. Hitt.
Lebanon	Laclede	1,265	32	39.8	−6.5	75	20	8	13	52	0.37	−2.21	0.09	T.	6	19	6	5	n.	Leonard E. Dickerson
Lockwood	Dade	1,078	24	43.8	−4.4	72	6	13	13	30	0.85	−1.39	0.25	T.	4	15	1	14	nw.	C. S. Crow.
Mountain Grove	Wright	1,490	23	40.5	−6.6	72	6	9	13	36	0.25	−2.19	0.18	T.	2	13	3	14	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	43.6	−3.7	76	5†	12	13	39	1.30	−1.73	0.31	T	8	17	4	9	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,139	36	43 3	−1.7	76	6	10	13	35	0.45	−1.90	0.23	T.	2	16	5	9	se.	Prof. Elmo G. Harris.
Seymour	Webster	...	..	42.8	−3.5	72	6	8	13	31	0.40	−2.06	0.22	T.	5	13	8	9	n.	Ira H. Hailey.
Springfield	Greene	1,350	42	41.6	−2.8	70	6	14	13	28	0.64	−2.00	0.33	T.	6	11	8	11	s.	U. S. Weather Bureau
Section means and	extremes	...	...	42.3	−4.1	76	5†	6	13	52	0.71	−2.05	0.72	T.	4	15	4	11	nw.	
Southwest Plain.																				
Amoret	Bates	831	13	40.5	−5.4	69	5	10	13	38	1.40	−0.26	0.44	T.	6	6	11	13	n.	Darby Fruit Farm.
Appleton City	St. Clair	853	28	42 6	−3.6	70	19†	12	13	35	1.40	−0.76	0.52	T	7	10	8	12	sw.	W. G. Bigelow.
Clinton	Henry	765	33	42.5	−5.0	74	5	11	13	38	0.85	−1.07	0.60	0	3	8	10	12	sw.	A. E. Derwent, M. D
Harrisonville	Cass	912	44	39.6	−2.9	71	20	12	13†	40	0.93	−0.82	0.28	0.1	8	3	7	20	n.	John H. Patterson.
Lamar	Barton	980	39	41.6	−5.2	72	5	11	13	38	1.21	−1 07	0.43	0	8	14	3	13	ne.	Joe W. Springer.
Lamonte	Pettis	863	33	41.2	−3.5	70	20	11	13	37	0.53	−1.38	0.25	0	5	1	28	1	n.	George B. Wagner.
Marshall	Saline	779	31	40.2^{b}	−5.8	69	6	10	13	34	0.68	−1.42	0.25	T.	4	9^{b}	6^{b}	13^{b}	nw.	Dr. W. H. Black
Nevada	Vernon	860	28	42.6	−1.9	76	20	12	13	43	0.93	−1 01	0.33	0	5	6	10	14	s	George A. Kaupp.
Warrensburg	Johnson	883	42	38.4^{m}	−6.7	71	18	12	12	41	...	...	...	...	...	...	...	...	...	S. I. Major.
Warsaw	Benton	715	25	43.4	−4.5	73	19	9	13	39	1.07	−1.35	0.27	T.	6	12	8	10	w.	J. R. Smith, M. D.
Section means and	extremes	...	...	41.3	−4.4	76	20	9	13	43	1.00	−1.02	0.60	T.	6	8	10	12	n.	
Northwest Plateau.																				
Avalon	Livingston	730	30	41.2	−2.6	70	19	13	13	34	2.25	+0.32	1.60	T.	4	15	4	11	nw.	F. G. Ashbaugh.
Bethany	Harrison	916	28	38.2	−5.2	68	19	8	13†	33	2.49	+0.90	1.40	T.	7	10	4	16	sw.	M. H. Moulton.
Chillicothe	Livingston	768	15	40.7	−1.7	67	20	10	13†	39	2.58	+0.10	1.05	0	6	15	0	15	nw.	G. L. Fellinger.
Conception	Nodaway	982	35	38.7	−2.7	68	19	10	12	30	2.56	+1.28	1.22	T.	6	11	4	15	nw.	Fr. Adelhelm Hess.
Edgerton	Platte	856	...	40.3^{c}	...	71	19	8	13	42	2.08	...	1.06	T.	7	11^{b}	4^{b}	13^{b}	sw.	Fred L. Stiff.
Grant City	Worth	1,134	29	35.7	−7.1	62	11	10	12†	48	1.76	+0.30	1.00	0	4	17	2	11	s	J. F. Hunter.
Kansas City	Jackson	963	31	41.4	−0.1	71	19	16	12	29	1.73	−0.12	1.13	T.	8	10	7	13	nw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	33	38.4	−3.9	81	22	10	13	41	2.70	+1 00	1.89	0	6	12	5	13	nw.	Linn Terry.
Lexington	Lafayette	688	38	41.0	−3 2	70	19	12	13	37	1.69	−0.16	1.30	0	7	12	1	17	n.	J. W. Keithley.
Liberty	Clay	864	30	40.6	−3.1	72	19	9	13	39	1.91	+0.21	0.59	T.	10	7	12	11	ne.	James H. Harris.
Maryville	Nodaway	1,036	30	35.2	−3.8	68	20	6	13	41	2.38	+0.90	1.25	T.	7	9	5	16	nw.	J. R. Brink.
Oregon	Holt	1,048	64	38 2	−2.0	65	19	11	13	31	2.46	+0.78	1.50	T.	7	9	5	16	nw.	Tom Curry.
St. Joseph	Buchanan	967	46	39.6	−1.8	70	19	14	12	29	2.75	+1.00	1.60	T.	8	9	6	15	nw.	U. S. Weather Bureau
Tarkio	Atchison	976	27	38.5	−1.6	79	19	9	13	42	2.29	+0.99	0.87	T.	6	11	2	14	nw.	John F. Frazier.
Trenton	Grundy	822	25	38.4	−4.2	65	19	12	12	27	2 20	+0.54	0.90	T.	8	11	6	13	s.	W. H. Estes.
Section means and	extremes	...	...	39.1	−3.3	81	22	6	13	48	2.26	+0.57	1.89	T	7	12	4	14	nw.	
State means and	extremes	...	..	40.9	−3.5	82	6	6	13	52	1.21	−1.09	1.89	T.	6	12	6	12	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record. but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing: for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows of Dean. Anderson: of Gano. Salem, R. F. D. No. 5.

Daily Precipitation for November, 1920.

Stations.	Watersheds.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville ‡‖	Missouri	.05	.05	...	...	...	...	.02	.05	.10	...	...	...	...	...	.02	...	...	...	...	...	...	.08	...	...	...	...	T.	...	.05	.06	...	0.48
Brunswick‖	Grand	.10	...	...	...	...	...	.95	.02	.22	...	...	...	...	...	T.	...	...	...	...	...	...	...	...	...	...	...	.18	...	.06	.12	...	1.65
Clifton Hill	Chariton	...	...	...	...	...	.08	.61	.25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.14	...	...	.25	.01	...	1.34
Columbia***	Missouri	.09	...	...	...	...	T.	.08	.18	...	...	...	...	...	T.	.02	...	...	...	...	...	.02	.02	...	T.	...	T.	...	...	.22	T.	...	0.63
Downing	Mississippi	.10	T.	...	...	...	.20	.55	.11	.02	...	...	...	...	T.	...	...	...	...	...	...	...	.03	...	...	...	.15	.08	...	.50	.02	...	1.76
Fayette	Missouri	...	...	...	...	...	...	T.	.22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.05	...	.11	...	...	...	0.38
Fulton	....do	.20	...	...	...	...	...	.13	.20	...	...	...	...	...	...	T.	...	...	...	...	...	...	...	...	...	...	...	...	...	.18	.10	...	0.81
Glencoe ‡‖	Meramec	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gorin	Mississippi	.16	...	...	...	...	.61	...	...	.02	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.14	...	...	.53	.10	...	1.56
Hannibal***	....do	.09	...	...	...	...	.10	.07	.16	...	...	...	...	...	T.	T.	...	...	...	...	...	.02	.04	...	...	...	.01	...	...	.46	T.	...	0.95
Hermann‡‖	Missouri	.15	...	...	...	...	...	.03	.02	.12	...	...	...	...	...	.02	...	...	...	...	...	...	.02	...	...	...	...	...	...	.31	.10	...	0.77
Jefferson City ‡‖	....do	.20	...	...	...	...	...	.10	.07	.20	...	...	...	...	...	T.	...	...	...	...	...	...	.12	...	...	...	...	...	...	.05	.12	...	0.86
Kirksville	Mississippi	...	...	...	...	...	...	.53	.08	...	...	...	...	...	T.	...	...	...	...	...	...	...	...	...	...	...	...	.26	...	.46	...	...	1.33
Louisiana	....do	.38	...	...	...	...	...	.48	.16	.04	...	...	...	...	...	T.	...	...	...	...	...	T.	.06	...	...	...	T.	...	...	.38	.05	...	1.55
Macon ‡‖	Chariton	.16	.06	...	...	...	.84	.08	.12	.21	...	...	...	...	...	T.	...	...	...	...	...	...	...	...	...	...	T.	.14	...	.40	...	...	2.01
Mexico ‡	Mississippi	.15	...	...	...	...	...	.03	.04	.18	...	...	...	...	...	.01	...	...	...	...	...	...	...	...	...	...	T.	...	.22	.16	...	...	0.79
Pacific ‖‖	Meramec	.12	.01	...	...	...	...	.03	.03	.10	...	...	...	...	...	T.	...	...	...	...	...	...	.02	...	...	...	...	...	...	.07	.04	...	0.42
Palmyra ‡	Mississippi	.09	...	...	...	...	...	.28	.03	.06	...	...	...	...	...	T.	...	...	...	...	.06	...	...	...	...	...	T.	.06	...	.41	.17	...	1.16
St. Catherine	Grand	.10	...	...	...	...	.45	.70	.08	.01	...	...	...	...	T.	.02	...	...	...	...	...	T.	.02	...	...	...	.10	.04	...	.33	.04	...	1.89
St. Charles	Missouri	...	...	...	...	...	...	T.	.13	...	...	...	...	...	...	T.	...	...	...	...	...	...	.07	...	...	...	...	...	...	.10	...	...	0.30
St. Louis (1)***	Mississippi	.24	...	...	...	...	...	.02	.05	...	...	...	...	...	...	T.	...	...	...	...	...	...	.06	...	...	...	...	...	...	.19	...	...	0.56
St. Louis (2)	....do	.38	...	...	...	...	...	.02	.08	...	...	...	...	...	...	...	...	...	...	...	...	...	.03	...	...	...	...	...	...	.17	...	...	0.68
Shelbina	....do	...	...	...	...	.10	...	...	.30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.40	...	0.80
Steffenville	....do	.12	...	...	...	...	T.	.40	.15	...	...	...	...	...	...	T.	...	...	...	...	...	T.	.10	...	...	...	T.	.05	.60	.15	...	...	1.57
Union‖‖	Meramec	.17	...	...	...	...	...	.05	.01	.11	...	...	...	...	...	T.	...	...	...	...	...	...	...	...	...	...	...	...	...	.12	.02	...	0.48
Unionville	Chariton	.45	...	...	...	...	.85	T.	.15	T.	...	...	...	...	.03	...	...	...	...	...	...	T.	...	...	...	...	.25	...	.40	.26	T.	...	2.39
Valley Park‖‖	Meramec	.06	.05	...	...	...	...	.07	.12	...	...	...	...	...	...	T.	...	...	...	...	...	...	.07	...	...	...	...	...	...	.06	.04	...	0.47
Warrenton ‡	Mississippi	.10	...	...	...	...	...	.07	.04	.10	...	...	...	...	...	.01	...	...	...	...	...	...	.01	...	...	...	...	...	...	.26	.10	...	0.69
Keokuk, Iowa***	....do	.04	T.	...	...	...	.32	.03	.07	...	...	...	...	...	T.	T.	...	...	...	...	...	T.	.02	...	...	...	.02	.01	...	.45	.02	...	0.98
Southeast Lowlands.																																	
Cape Girardeau ‡‖	Mississippi	25	.15	...	...	...	...	...	...	.11	...	...	...	...	...	...	...	...	...	...	...	...	.10	...	...	...	...	...	...	...	.02	...	0.63
Caruthersville	....do	.34	...	...	...	...	...	...	...	.52	...	...	...	...	...	T.	...	...	...	...	...	...	...	...	...	...	...	T.	...	.10	...	...	0.96
Doniphan	Black	.50	...	...	...	...	...	...	T.	.10	...	...	...	...	...	T.	...	...	...	...	...	...	...	...	...	...	T.	...	...	.30	.05	...	0.95
Jackson	Mississippi	.20	...	...	...	...	...	...	.03	.10	...	...	...	...	...	T.	...	...	...	...	...	.02	...	...	...	...	...	...	...	.08	T.	...	0.43
Marble Hill	....do	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.00
New Madrid ‖‡	....do	.20	.26	...	...	...	...	...	...	.35	.20	...	...	...	...	...	...	...	...	...	...	...	.10	...	...	...	...	.09	.01	...	.15	...	1.36
Parma	....do	.30	...	...	...	...	...	...	...	.36	...	...	...	...	...	...	...	...	...	...	...	...	.07	...	...	...	...	.04	...	.14	...	...	0.91
Patton (near)	....do	.71	...	...	...	...	...	...	.35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.18	...	...	1.24
Poplar Bluff ‖‡	Black	...	...	...	...	...	...	...	...	T.	.11	...	...	...	...	T.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.11
Vanduser	Mississippi	25	.01	...	...	...	...	...	.09	...	...	...	...	...	...	...	...	...	...	...	...	.03	...	...	...	...	...	...	...	.12	.12	...	0.62
Cairo, Ill.***	....do	.30	...	...	...	...	...	...	T.	.11	...	...	...	...	T.	...	...	...	...	...	...	.04	T.	...	...	...	T.	.04	...	.04	.17	...	0.70
Ozark Plateau.																																	
Arcadia ‡	St. Francis	.28	.07	...	...	...	...	...	T.	.12	...	...	...	...	...	T.	T.	...	...	...	...	...	...	...	...	...	...	...	...	.21	.04	...	0.72
Aurora	White	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Birchtree	Black	.60	...	...	...	...	...	...	.72	.12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.28	...	1.72
Bolivar	Osage	.14	...	...	...	...	...	.09	.12	.07	...	...	...	...	...	...	...	...	...	...	...	...	T.	...	...	...	.02	...	...	.03	.03	...	0.50
Dean	Neosho	...	...	...	...	...	.33	.19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	T.	...	...	...	.27	...	...	.12	.07	...	0.98
Eldon	Osage	.21	...	...	...	...	...	.08	.20	.05	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.54
Farmington	St. Francis	.23	...	...	...	...	...	.01	.32	.06	...	...	...	...	...	T.	...	...	...	...	...	...	T.	...	...	...	...	...	...	.30	...	...	0.92
Gano	Meramec	.12	...	...	...	...	...	...	.15	...	...	...	...	...	...	T.	...	...	...	...	...	...	...	...	...	...	...	...	...	.16	.06	...	0.49
Goodland	Black	...	...	...	...	...	...	...	.50	.45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.10	...	1.05
Hollister	White	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.20	...	0.20
Houston	Gasconade	.15	...	...	...	...	...	.06	.17	...	...	...	...	...	...	...	...	...	...	...	...	...	.16	...	...	...	...	...	...	...	.05	...	0.59
Koshkonong	Black	.31	...	...	...	...	...	T.	T.	.14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	T.	...	...	.31	.05	...	0.81
Lebanon ‖‖	Osage	.07	...	...	...	...	...	.08	.09	.07	...	...	...	...	T.	...	...	...	...	...	...	...	.01	...	...	...	...	...	...	...	.05	...	0.37
Lockwood	....do	.30	...	...	...	...	...	.15	.25	.15	...	...	...	...	...	T.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.85
Mountain Grove ‡	White	...	...	...	...	...	...	...	.18	.07	...	...	...	...	...	T.	...	...	...	...	...	...	T.	...	...	...	...	...	...	...	T.	...	0.25
Neosho	Neosho	.31	...	...	...	...	...	.29	.17	.12	...	...	...	...	.03	...	...	...	...	...	...	...	T.	...	...	...	.15	T.	...	.15	.08	...	1.30
Rolla ‡‖	Meramec	T.	...	...	...	...	...	T.	.23	...	...	...	...	...	...	T.	...	...	...	...	...	...	...	...	...	...	...	...	...	.22	T.	...	0.45
Seymour	White	...	...	...	...	...	...	.09	.22	.01	...	...	...	...	T.	T.	...	...	...	...	...	...	...	...	...	...	T.	...	...	.03	.05	...	0.40
Springfield***	....do	.03	...	...	...	...	...	.20	.17	.08	...	...	...	...	...	T.	...	...	...	...	...	...	...	...	...	...	T.	...	...	.06	.10	...	0.64
Steelville ‖‡	Meramec	.18	...	...	...	...	...	.01	.08	.11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.17	...	...	0.55
Tuscumbia ‖‖	Osage	.19	...	...	...	...	...	.05	.07	.19	...	...	...	...	...	T.	...	...	...	...	...	...	.02	...	...	...	...	...	...	.01	T	...	0.53
Southwest Plain.																																	
Amoret	Osage	.44	...	...	...	...	...	.41	.11	.02	...	...	...	...	...	T.	...	...	...	...	...	...	...	...	...	...	T.	...	...	.35	.07	...	1.40
Appleton City	....do	.52	...	...	...	...	...	.25	.05	.06	...	...	...	...	...	T.	...	...	...	...	...	...	T.	...	...	...	.02	T.	...	.46	.04	...	1.40
Clinton	....do	...	...	...	...	...	...	.60	.10	.15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.85
Harrisonville ‡‖	....do	.28	...	...	...	...	...	...	.22	.08	...	...	...	...	...	T.	...	...	...	...	...	...	.06	...	...	...	.02	.08	...	.18	.01	...	0.93
Lamar ‡	Neosho	.30	...	...	...	...	...	.43	.11	.15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.04	.02	...	.09	.07	...	1.21
Lamonte	Missouri	...	...	...	...	...	...	...	.25	.10	.09	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.01	...	...	...	.08	...	...	0.53
Marshall	....do	T.	...	...	...	...	T.	.20	.25	...	...	...	...	...	...	...	...	...	...	...	...	T.	...	T.	...	...	.08	...	...	.15	T.	...	0.68
Nevada	Osage	.33	...	...	...	...	...	.31	T.	.05	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.08	...	...	.16	T.	...	0.93
Osceola ‖‖	....do	20	...	...	...	...	...	.09	.10	.07	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.04	...	...	0.50
Warrensburg	Missouri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warsaw	Osage	.23	...	...	...	...	...	.27	.16	.11	...	...	...	...	...	T.	...	...	...	...	...	...	...	...	...	...	T.	...	...	.13	.17	...	1.07
Waverly ‡‖	Missouri	.04	...	...	...	...	...	.71	.07	.06	...	...	...	...	...	T.	T.	...	...	...	...	...	...	...	...	...	T.	.14	...	.04	.02	...	1.08
Northwest Plateau.																																	
Avalon	Grand	...	...	...	...	...	...	1.60	.15	...	...	...	...	...	...	T.	...	...	...	...	...	...	...	...	...	...	.25	...	...	.25	...	...	2.25
Bethany	....do	...	...	...	...	...	.75	.65	.17	T.	...	...	...	...	T.	...	...	...	...	...	...	T.	...	...	T.	...	.31	.05	...	.20	.36	...	2.49
Chillicothe ‡‖	....do	...	...	...	...	...	1.05	.60	.60	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.19	...	...	.11	.03	...	2.58
Conception	Missouri	...	...	...	...	...	1.22	.28	.38	...	...	...	T.	...	T.	...	...	...	...	...	...	T.	...	...	...	...	.29	...	...	.29	.10	...	2.56
Edgerton	Grand	...	...	...	...	...	1.06	.26	.08	...	...	...	...	...	T.	T.	...	...	...	...	...	.02	...	...	...	...	...	.20	...	.23	.23	...	2.08
Grant City	....do	...	...	...	...	...	...	...	1.00	.50	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.25	.01	...	...	...	...	1.76
Kansas City***	Missouri	...	T.	...	...	T.	1.12	.03	.07	...	...	...	T.	...	T.	T.	...	...	...	...	...	.04	...	...	...	...	.15	...	.06	.23	.03	...	1.73
Kidder ‡	Grand	.21	...	...	...	...	...	1.89	.08	.04	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.28	.20	...	2.70
Lexington ‡‖	Missouri	.07	...	...	...	...	...	1.30	.05	.05	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.07	.12	...	...	.03	...	1.69
Liberty	....do	03	...	...	...	T.	.59	.58	.13	.03	...	...	T.	...	T.	T.	...	...	...	...	...	.07	...	T.	...	...	.20	.02	...	.19	.07	...	1.91
Maryville ‖	....do	.33	...	...	...	...	T.	1.25	15	...	...	...	...	T.	T.	T.	...	...	...	...	...	...	T.	...	...	...	.04	.14	...	.35	.12	...	2.38
Oregon	....do	...	...	...	...	...	**	**	1.70	...	...	T.	T.	...	T.	T.	...	...	...	...	...	.04	...	...	...	...	.18	...	...	.36	.18	...	2.46
St. Joseph***	....do	...	...	...	...	...	1.57	.06	.09	...	...	T.	T.	...	T.	T.	...	...	...	...	...	.04	...	...	...	...	.21	...	.02	.55	.21	...	2.75
Tarkio	....do	.09	...	...	...	...	.87	.29	.20	...	...	...	T	...	...	...	...	...	...	...	...	...	...	...	...	...	.23	...	...	.61	...	...	2.29
Trenton	Grand	T.	...	...	...	...	.60	.90	.11	...	...	...	...	...	T.	T.	...	...	...	...	...	.04	...	...	...	...	.20	.08	...	.10	.17	...	2.20

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for November, 1920.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	56	53	62	62	68	62	58	60	49	43	33	28	35	38	33	40	42	60	72	68	45	50	47	39	45	40	51	56	46	44	....	49.5
	Minimum	50	30	27	34	30	36	54	49	40	18	25	9	12	18	21	13	18	24	33	44	44	38	24	26	31	28	33	31	33	37	....	30.3
Columbia	Maximum	59	46	60	62	64	63	60	64	60	40	33	27	32	36	31	35	42	61	71	72	62	47	47	39	40	40	52	54	47	43	....	49.7
	Minimum	33	32	29	36	33	50	53	53	34	25	21	15	11	27	19	16	19	34	44	49	38	32	24	29	30	29	34	33	39	37	....	31.9
Fayette	Maximum	47	58	62	64	60	58	59	56	40	31	24	31	35	30	37	40	61	70	70	61	46	43	37	40	44	43	58	44	39	42	....	47.7
	Minimum	32	32	25	39	28	46	52	50	30	23	17	13	9	20	16	12	14	30	40	46	36	35	22	27	32	34	36	32	35	34	....	29.9
Hannibal	Maximum	62	44	58	61	59	66	57	61	59	40	31	25	32	36	31	36	43	58	68	71	62	39	42	41	36	38	52	51	46	44	....	48.3
	Minimum	36	33	29	37	31	46	49	48	33	24	21	15	13	21	22	17	20	32	41	49	39	35	27	25	34	30	35	33	37	39	....	31.7
Jefferson City §§	Maximum	60	46	57	61	65	70	60	63	54	45	35	27	35	36	32	34	53	63	69	71	56	45	46	38	34	40	50	57	47	42	....	49.7
	Minimum	51	32	29	30	33	36	46	54	49	28	28	17	12	15	21	17	18	19	19	42	48	37	27	27	30	17	30	30	32	36	....	30.3
Kirksville	Maximum	61	48	62	62	56	59	55	58	55	40	31	27	32	34	32	39	40	59	67	68	60	46	46	44	37	33	45	49	46	41	....	47.7
	Minimum	35	27	25	38	31	35	37	45	34	17	17	11	9	19	13	11	17	29	41	41	38	35	22	22	30	25	33	30	34	34	....	27.8
Louisiana	Maximum	68	60	55	62	63	68	70	63	60	60	40	33	33	36	35	35	42	55	68	70	70	58	46	48	42	36	50	54	50	48	....	52.6
	Minimum	49	40	28	34	26	40	40	50	44	29	23	25	10	15	22	15	17	23	32	44	47	36	24	20	32	15	34	22	38	38	....	30.4
Macon §§	Maximum	57	47	61	61	63	64	55	59	46	42	32	29	34	35	33	39	41	58	69	70	47	47	48	40	36	38	43	54	45	44	....	47.9
	Minimum	52	30	26	28	32	47	48	47	41	20	20	12	10	11	17	16	16	20	30	41	46	35	22	23	28	26	30	35	28	36	....	29.1
Mexico §§	Maximum	63	47	59	63	64	63	64	63	53	40	35	29	35	31	34	36	44	60	69	70	53	46	49	40	37	42	52	53	48	43	....	49.5
	Minimum	50	32	30	34	30	38	49	48	45	25	25	14	11	12	12	14	19	25	34	46	48	36	25	25	30	26	31	28	30	36	....	30.3
St. Catharine	Maximum	60	45	57	61	57	60	55	58	58	40	35	28	34	35	33	38	42	55	66	70	61	49	50	42	39	36	45	52	47	42	....	48.3
	Minimum	35	28	25	34	28	48	49	45	37	29	19	11	8	18	16	11	18	26	34	43	36	34	19	23	30	25	32	29	38	34	....	28.7
St. Louis (1)	Maximum	66	47	57	65	63	72	62	60	61	43	39	29	31	39	36	38	45	63	70	72	65	43	48	47	38	40	50	52	48	48	....	51.2
	Minimum	42	35	34	46	47	48	54	53	43	32	23	19	19	25	26	24	24	36	47	51	43	38	32	37	34	32	35	31	37	39	....	36.2
Unionville	Maximum	58	45	58	60	58	57	51	56	55	38	34	24	32	35	34	38	40	56	66	67	60	46	44	36	35	36	46	52	46	47	....	47.1
	Minimum	35	28	26	40	30	45	46	40	34	15	20	10	9	18	18	10	20	28	40	45	38	34	22	23	24	28	30	32	35	35	....	28.6
Warrenton §§	Maximum	65	46	59	62	62	71	60	61	55	42	33	27	34	38	31	38	43	63	68	72	60	41	59	40	35	38	51	53	46	42	....	49.8
	Minimum	45	32	30	32	38	40	52	51	49	28	27	15	11	16	22	17	19	26	36	45	50	36	25	26	29	25	29	28	33	34	....	31.5
Southeast Lowlands.																																	
Caruthersville	Maximum	65	61	64	78	80	82	78	73	66	62	59	42	42	45	45	47	45	66	72	77	68	61	60	62	48	42	51	55	49	47	....	59.8
	Minimum	54	37	36	36	40	45	46	53	60	44	37	26	20	27	36	25	20	29	31	42	54	42	32	42	30	28	36	32	44	35	....	37.4
Doniphan	Maximum	66	52	58	72	67	71	72	64	66	62	50	39	34	40	40	40	39	60	65	69	68	65	53	56	49	38	50	55	48	47	....	55.2
	Minimum	50	34	28	50	35	37	43	42	42	41	30	22	13	19	30	21	14	21	27	43	55	40	25	38	33	22	25	25	25	34	....	32.1
Jackson	Maximum	62	62	63	76	69	75	67	63	65	60	42	35	38	40	38	40	45	61	68	72	68	58	55	56	45	45	53	54	47	50	....	55.7
	Minimum	49	25	26	31	30	33	35	55	51	32	24	21	11	17	30	23	14	25	26	38	57	42	23	35	32	20	35	25	40	32	....	31.2
Poplar Bluff	Maximum	72	72	73	72	75	75	75	76	75	73	70	54	55	54	52	51	60	60	62	61	50	52	54	60	61	61	70	69	69	68	....	64.4
	Minimum	27	29	29	30	29	30	30	40	40	41	41	21	21	20	20	20	20	24	24	26	20	21	21	20	21	21	24	24	26	51	....	27.0
Ozark Plateau.																																	
Arcadia §§	Maximum	62	54	62	71	67	72	67	59	63	43	43	34	37	37	35	39	41	65	69	72	69	41	57	52	14	39	53	56	47	45	....	53.2
	Minimum	46	31	28	30	29	30	36	54	54	35	23	17	8	10	24	19	16	16	31	43	47	38	28	27	30	19	21	22	24	34	....	29.0
Birchtree	Maximum	63	58	61	72	70	74	65	59	65	56	45	35	35	38	37	41	49	63	70	73	69	53	55	54	49	....	40	58	65	52	....	[a]56.0
	Minimum	46	28	25	32	41	44	49	53	56	36	26	18	9	21	25	17	14	28	33	41	52	35	25	32	34	....	25	26	28	37	....	[a]32.4
Eldon	Maximum	56	45	49	68	65	72	61	61	58	40	35	26	32	35	31	39	43	63	69	70	60	42	48	41	42	41	52	55	55	39	....	49.8
	Minimum	31	26	24	37	31	42	51	50	35	24	21	13	8	18	16	11	12	28	39	40	38	31	21	26	30	24	31	26	35	33	....	28.4
Farmington	Maximum	64	60	56	65	62	65	66	65	65	52	46	27	32	39	34	34	45	61	67	72	65	55	48	44	38	41	48	52	45	44	....	51.9
	Minimum	54	30	35	42	33	43	48	53	52	33	24	17	11	19	16	16	18	33	37	45	50	34	26	32	32	21	30	24	35	32	....	32.5
Gano	Maximum	63	53	59	64	68	71	65	57	58	47	38	31	32	38	36	34	47	61	68	71	66	44	48	45	38	37	51	55	57	41	....	51.4
	Minimum	45	28	26	40	34	42	51	52	46	30	25	10	7	20	24	14	17	31	49	41	43	35	25	30	30	25	26	27	38	32	....	31.4
Hollister	Maximum	68	54	66	70	70	74	70	70	62	53	45	38	44	40	40	41	49	67	74	73	68	55	54	56	53	48	54	58	55	44	....	57.1
	Minimum	50	33	25	30	32	34	34	40	52	35	26	20	10	20	30	10	12	20	28	34	55	44	25	24	22	30	36	26	38	36	....	30.4
Koshkonong	Maximum	67	54	58	71	69	74	68	62	64	56	47	31	35	38	38	39	49	64	70	73	69	51	55	55	52	41	51	58	46	41	....	55.0
	Minimum	48	32	30	41	43	45	53	54	56	37	30	20	13	23	29	19	21	31	40	45	50	40	29	36	33	26	34	30	40	36	....	35.5
Lebanon §§	Maximum	41	47	59	65	65	74	60	63	57	43	38	30	35	36	33	35	45	70	71	75	60	41	43	40	44	45	52	46	43	41	....	49.9
	Minimum	36	28	28	28	36	40	41	54	51	29	25	15	8	10	23	11	12	18	36	47	49	36	24	21	25	30	33	30	34	34	....	29.8
Mountain Grove	Maximum	51	47	60	67	68	72	56	53	57	37	38	29	32	38	34	35	44	62	68	67	66	40	46	52	47	37	55	45	43	44	....	49.7
	Minimum	41	29	27	31	43	48	54	51	47	32	26	16	9	15	26	11	16	26	35	38	41	36	25	28	32	29	29	30	31	33	....	31.3
Neosho	Maximum	60	49	64	66	76	76	71	63	61	50	39	33	39	36	36	36	46	64	71	54	71	52	57	50	52	45	53	53	53	50	....	54.2
	Minimum	45	30	26	40	37	48	53	55	48	30	24	19	12	18	24	13	16	32	38	48	48	40	24	26	20	34	40	35	36	34	....	33.1
Rolla §§	Maximum	72	51	63	68	68	76	70	60	60	45	36	30	33	41	35	38	50	68	73	73	64	45	54	44	43	38	55	58	50	41	....	53.4
	Minimum	50	30	28	42	35	43	52	55	45	32	27	17	10	22	23	15	17	33	40	44	45	36	25	40	33	27	28	28	38	35	....	33.2
Springfield	Maximum	59	44	59	64	67	70	59	59	58	42	36	28	32	31	33	35	43	62	68	69	63	41	49	42	45	40	48	54	49	38	....	49 7
	Minimum	33	30	31	44	45	52	53	56	35	30	23	17	14	28	21	15	21	35	43	48	38	33	27	31	30	34	36	36	35	34	....	33.6
Southwest Plain.																																	
Amoret	Maximum	58	46	65	62	69	66	63	61	60	40	40	28	32	38	32	35	45	60	67	67	62	45	43	41	40	44	51	50	47	42	....	50.0
	Minimum	35	28	27	39	35	56	50	50	40	26	22	15	10	28	18	13	18	30	38	48	39	35	22	26	30	33	37	31	35	32	....	31.5
Appleton City	Maximum	58	47	63	64	69	68	63	61	61	45	38	29	34	36	36	37	45	61	70	70	64	45	44	41	45	43	51	53	52	42	....	51.2
	Minimum	41	30	28	40	40	53	54	53	45	29	28	18	12	29	21	15	19	33	40	45	41	37	27	28	32	34	40	30	37	37	....	33.9
Clinton	Maximum	64	50	54	68	74	72	65	63	60	44	36	30	36	38	35	40	48	61	71	71	62	48	47	42	44	44	52	60	52	43	....	52.5
	Minimum	36	30	27	38	36	50	53	51	40	28	23	16	11	27	20	25	30	34	40	43	41	32	24	27	26	32	32	30	36	36	....	32.5
Harrisonville §§	Maximum	48	48	64	66	68	65	58	59	49	42	35	30	31	35	34	37	46	63	71	65	43	46	42	40	44	43	49	46	41	42	....	48.5
	Minimum	42	27	25	29	41	42	54	52	43	25	26	15	12	12	19	15	15	23	31	40	40	35	25	26	32	34	34	37	33	36	....	30.7
Lamar §§	Maximum	52	48	65	68	72	71	59	65	56	43	38	33	36	37	35	38	45	63	69	71	50	43	47	42	41	41	50	40	40	40	....	50.0
	Minimum	48	28	27	39	41	48	53	52	50	23	25	18	11	28	21	15	17	32	38	47	44	38	23	25	23	35	38	35	38	31	....	33.1
Lamonte	Maximum	61	47	60	61	67	65	63	63	60	45	36	29	32	36	34	37	41	61	69	70	64	50	50	40	46	40	49	55	56	41	....	50.9
	Minimum	35	29	29	40	35	53	54	52	43	25	25	26	11	21	19	13	20	33	32	49	40	37	24	24	36	25	24	25	34	36	....	31.6
Marshall	Maximum	67	....	58	61	64	69	60	60	62	42	34	27	32	38	34	35	43	69	68	....	64	47	48	40	41	40	48	50	49	43	....	[b]49.4
	Minimum	35	....	24	33	32	47	54	50	40	24	27	15	10	21	21	14	15	28	40	....	41	38	23	26	32	28	38	31	40	38	....	[b]30.9
Warrensburg	Maximum	46	49	64	68	....	....	....	66	41	33	27	34	37	43	36	43	71	68	....	68	....	....	....	....	....	....	....	....	57	....	....	[m]50.1
	Minimum	29	29	30	38	45	....	....	....	25	26	15	12	16	20	14	20	23	34	43	....	36	....	....	....	....	....	....	....	....	26	....	[l]26.7
Warsaw	Maximum	62	47	63	64	70	72	66	64	62	47	42	30	35	37	31	38	47	65	73	71	68	66	50	45	44	42	50	60	57	42	....	53.7
	Minimum	42	30	28	46	31	45	54	52	45	29	24	17	9	29	20	12	15	35	46	48	42	38	23	25	33	33	37	29	38	37	....	33.1
Northwest Plateau.																																	
Chillicothe §§	Maximum	60	48	64	63	62	58	56	58	59	43	38	29	35	35	37	38	44	61	65	67	62	55	49	42	45	40	53	54	57	43	....	50.7
	Minimum	37	31	25	37	27	45	51	48	35	20	23	13	10	20	23	10	18	27	36	45	40	37	22	26	35	37	35	32	40	36	....	30.7
Grant City	Maximum	50	50	49	50	50	49	44	45	46	60	62	46	42	32	21	28	25	33	46	59	59	39	50	45	34	54	42	43	41	42	....	44 5
	Minimum	36	35	37	36	34	32	34	35	29	12	18	10	10	14	14	12	11	21	33	32	38	36	25	27	32	34	30	29	29	32	....	26 9
Kansas City	Maximum	58	46	63	62	67	62	57	59	54	40	34	25	32	38	31	35	47	64	71	65	58	44	43	40	42	45	47	47	45	43	....	48.8
	Minimum	33	31	34	46	43	54	50	50	28	23	21	16	18	26	22	18	25	35	46	52	35	31	30	34	32	35	39	35	39	37	....	34.0
Kidder §§	Maximum	45	44	60	60	61	57	57	56	46	49	29	26	34	39	32	37	42	60	57	70	81	47	44	36	42	42	43	49	42	44	....	47.7
	Minimum	44	29	26	30	34	36	51	46	40	19	19	13	10	13	21	13	12	22	30	35	40	47	24	25	25	30	32	32	33	38	....	29.0
Lexington §§	Maximum	52	52	61	62	66	62	58	58	47	40	32	28	32	38	32	33	42	43	70	65	44	50	46	39	44	42	47	51	44	45	....	48.3
	Minimum	50	31	29	42	34	55	53	50	42	23	26	15	12	25	22	12	21	31	43	50	41	38	24	29	32	32	38	31	41	36	....	33.6
Maryville §§	Maximum	39	44	59	58	66	56	48	54	43	37	21	23	43	33	32	37	43	60	68	58	38	47	35	35	42	42	46	44	42	41	....	44.5
	Minimum	36	25	25	28	28	33	44	44	36	13	12	9	6	7	20	11	11	23	27	39	36	36	22	22	28	27	30	30	31	36	....	25 8
Oregon	Maximum	58	43	57	57	61	58	55	56	51	36	31	21	30	34	30	34	47	60	65	60	57	43	40	36	42	43	49	44	44	42	....	46 2
	Minimum	28	27	27	37	37	50	46	45	27	16	18	12	11	26	20	14	21	29	41	45	35	32	33	29	26	33	40	33	38	34	....	30.3
St. Joseph	Maximum	59	44	61	59	63	59	56	57	48	38	32	23	32	34	31	36	47	63	70	62	50	44	40	37	42	44	47	44	44	41	....	46.9
	Minimum	30	30	32	39	36	53	48	48	25	20	19	14	15	24	22	16	24	34	46	49	37	34	25	33	30	34	41	35	40	35	....	32.3
Trenton	Maximum	56	44	52	57	58	57	56	58	66	36	32	26	30	37	32	32	41	52	65	60	57	47	45	39	40	37	45	50	46	44	....	46.2
	Minimum	34	30	26	30	31	50	49	46	36	20	19	12	13	25	21	13	20	28	40	43	40	36	25	28	32	29	35	33	40	38	....	30.7

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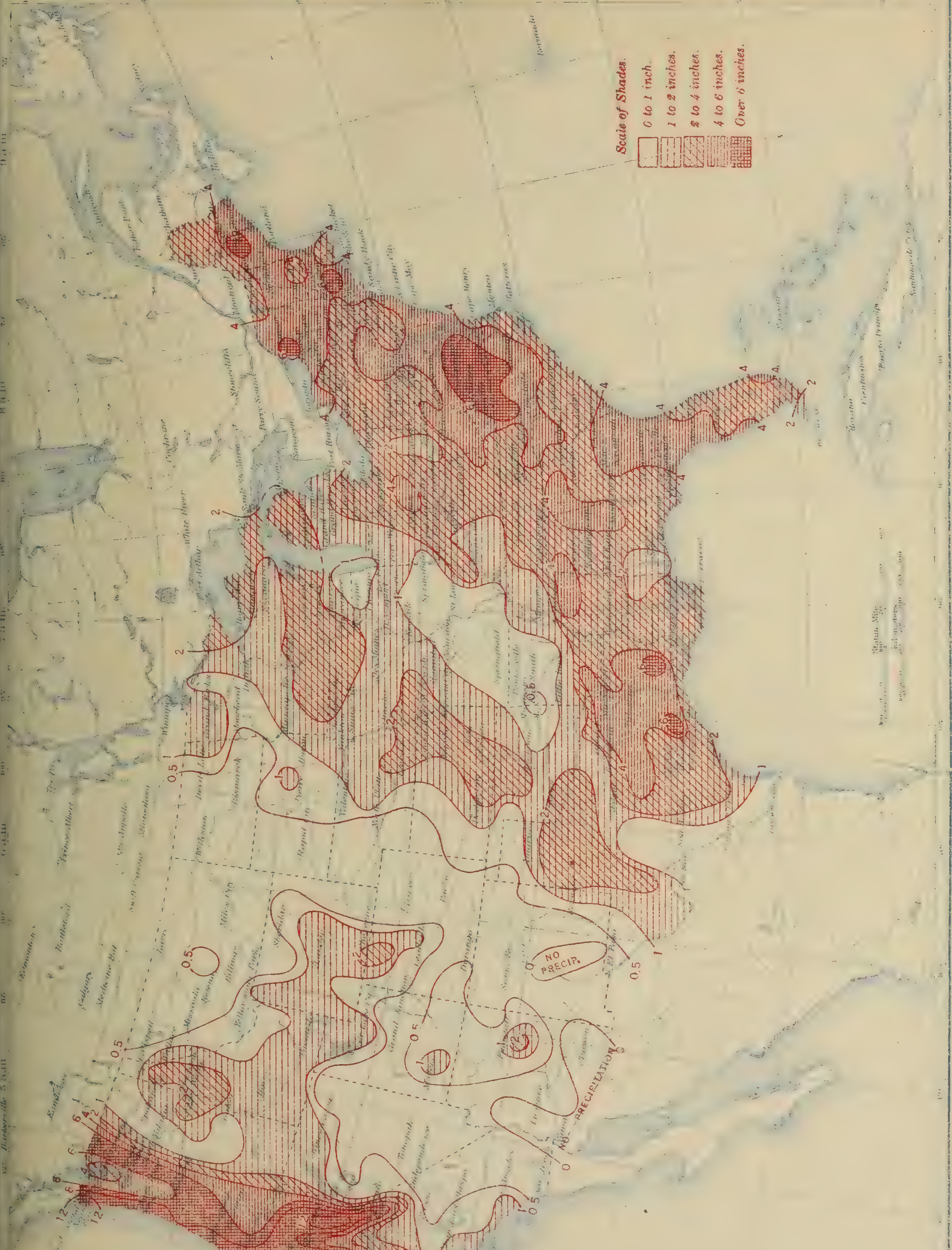
[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.


Scale of Shades.
0 to 1 inch.
1 to 2 inches.
2 to 4 inches.
4 to 6 inches.
Over 6 inches.
NO PRECIP.
NO PRECIPITATION

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U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

MISSOURI SECTION

IN COOPERATION WITH THE UNIVERSITY OF MISSOURI

DECEMBER, 1920

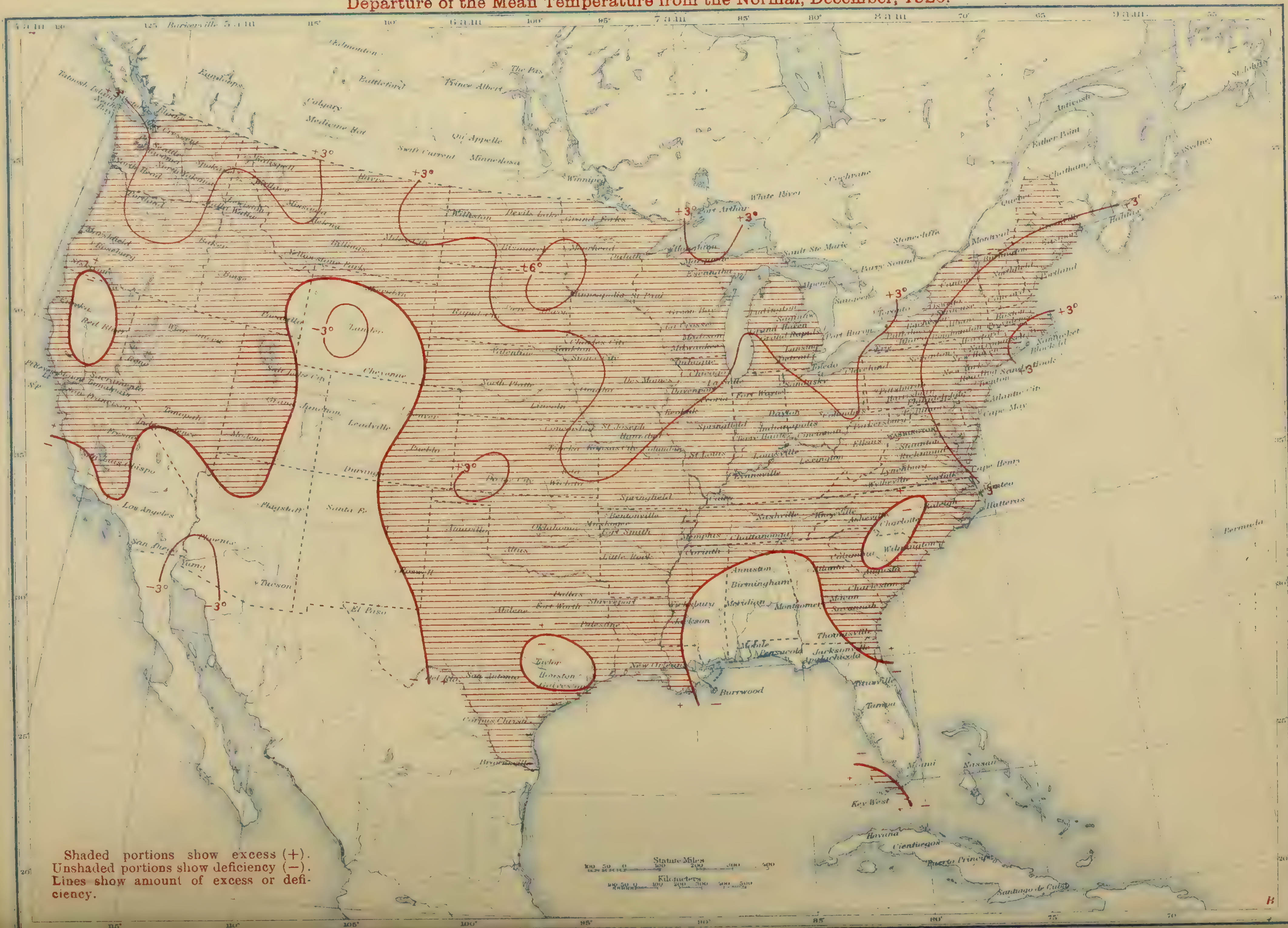
BY

GEORGE REEDER

METEOROLOGIST

COLUMBIA, MO.
WEATHER BUREAU OFFICE
March 7, 1921

Departure of the Mean Temperature from the Normal, December, 1920.



Shaded portions show excess (+). Unshaded portions show deficiency (−). Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXIV. Columbia, Mo., December, 1920 No. 12.

GENERAL SUMMARY.

December, 1920, in Missouri, was mostly bright and pleasant. There was no snow and not much cold weather until the last week. There was more wind than usual, but on most of the blustry days the wind came from southerly points.

Precipitation differed but little from the normal, and fell at regular intervals. The first half of the last decade was the most disagreeable, being rather cloudy, foggy, and wet.

The usual farm work was carried on without much interference. Live stock was on pasture most of the time and fared well. The wheat crop had a good color and was in satisfactory condition generally.

TEMPERATURE.

The monthly mean for the State, as shown by the records of 68 stations, was 35.6°. The departure from the normal for 65 stations having 10 or more years' record was plus 2.6°. The present month was about 7° warmer than last December, and about 4° colder than December, 1918.

Eighteen days were warmer than normal, the first two weeks being unusually mild and pleasant. There were about six typical winter days, days on which the maximum did not rise above 32°; the minimum temperatures were 32° or lower on 21 days, but zero occurred only on one day, the 28th.

PRECIPITATION.

The average precipitation for the State, as determined from the records of 85 stations, was 1.93 inches. The departure from the normal for 75 stations having 10 or more years' record was minus 0.22 inch. All sections, except the southeast, experienced a small deficiency in precipitation. In the southeastern lowlands the month was wetter than normal, the moisture being somewhat more than needs required. Precipitation was general on the 4th, 13th, and 14th, and the period from about the 21st to the 26th was rather cloudy and wet.

The first snow of importance began during the afternoon of the 25th and continued over the 26th; the average depth, for the State as a whole, being 2.3 inches. Nearly all of it had evaporated or melted by the 29th. The normal snowfall for December is about 3.5 inches.

WIND.

The prevailing winds were from the northwest, but, as the mild conditions indicate, it blew from southern points on many days. The average monthly movement was 8,840 miles, or an average hourly velocity of 11.9 miles. It is the windiest December of record, though strong winds occurred on but two days, the 13th, and 15th.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, for the State as a whole, was 145. This is about 50 per cent of the possible, and practically normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense. — 1st, 4th, 5th, 6th, 13th, 21st, 22nd, 26th, and 31st.

Hail. — 4th, and 14th.

Halos, solar. — 2nd, 8th, 11th, 16th, 17th, 18th, 20th, 23rd, 28th, and 29th. Lunar. — 16th, 17th, 18th, 19th, 23rd, 24th, 29th, and 30th.

Sleet. — 7th, 20th, 21st, 22nd, 25th, and 26th.

Thunder was heard on the 4th, 13th, and 21st.

OBSERVERS' REMARKS.

St. Catharine. — This has been a fine month for live stock, and there has been enough grass to keep them.

Warrenton. — Fine autumn weather has prevailed much of the time.

Bolivar. — The month has been pleasant, and favorable for outdoor occupations.

Hollister. — Quite severe hailstorm on the 13th. Stones about as large as hen eggs.

Lockwood. — A fine winter month. Wheat is in good condition; and there is ample moisture. All work well advanced.

Appleton City. — December was rather dry but fine for outdoor work. Wheat is doing well.

La Monte. — Most of the corn has been shucked and cribbed.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Max. velocity. Direction.	Max. velocity. Date.
Columbia	29.99	80	......	127	43	7,757	10.4	36	nw.	15
Hannibal	29.99	81	......	......	......	7,806	10.5	34	sw.	13
Kansas City	29.98	76	64	187	64	10,395	14.0	46	nw.	15
St. Joseph	29.96	80	67	142	49	7,719	10.4	42	nw.	15
St. Louis	30.00	78	66	145	49	11,946	16.1	48	w.	13
Springfield	30.00	83	74	148	50	9,925	13.3	43	se.	21
Cairo, Ill	30.03	82	66	......	......	8,138	10.9	42	w.	13
Keokuk, Iowa	29.98	78	69	130	45	7,094	9.5	37	nw.	14

COMPARATIVE DATA FOR DECEMBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	35.9	+1.7	70	0	2.29	+0.24	.....	.....	6	.....	.....	.....
1889	46.8	+12.6	78	2	0.96	−1.09	.....	.....	5	.....	.....	.....
1890	36.0	+1.8	76	−3	1.03	−1.02	.....	.....	3	.....	.....	.....
1891	39.8	+5.6	72	−1	1.90	−0.15	.....	.....	6	.....	.....	.....
1892	29.4	−4.8	75	−22	2.38	+0.33	3.08	4.8	6	8	7	16
1893	35.2	+1.0	76	7	0.95	−1.10	2.95	2.7	5	11	11	9
1894	36.7	+2.5	75	−7	2.13	+0.08	3.01	1.3	5	14	8	9
1895	34.3	+0.1	69	−8	6.13	+4.08	6.95	3.4	8	9	8	14
1896	38.6	+4.4	79	−5	0.93	−1.12	2.25	T.	3	13	8	10
1897	29.3	−4.9	74	−14	2.80	+0.75	2.70	6.3	7	8	8	15
1898	28.7	−5.5	74	−20	1.69	−0.36	2.50	5.1	5	17	6	8
1899	30.4	−3.8	72	−13	2.11	+0.06	1.70	6.6	9	12	9	10
1900	35.6	+1.4	68	−3	0.69	−1.36	1.08	0.6	4	14	8	9
1901	28.5	−5.7	71	−29	2.93	+0.88	4.13	6.9	8	11	7	13
1902	30.7	−3.5	68	−7	2.91	+0.06	2.50	3.1	8	10	4	17
1903	30.2	−4.0	65	11	1.51	−0.54	1.80	2.3	5	16	7	8
1904	32.9	−1.3	75	−10	1.50	−0.55	1.55	6.0	5	16	7	8
1905	33.3	−0.9	66	−2	1.45	−0.60	2.24	1.7	4	18	6	7
1906	36.1	+1.9	73	0	2.27	+0.22	2.85	0.6	8	8	6	17
1907	37.7	+3.5	76	3	1.84	−0.21	1.78	3.7	7	11	7	13
1908	38.4	+4.2	80	−4	0.85	−1.20	1.35	T.	3	16	7	8
1909	24.9	−9.3	76	−17	2.86	+0.81	2.50	7.7	8	12	6	13
1910	31.2	−3.0	67	−5	1.25	−0.80	2.85	2.4	4	16	5	10
1911	36.7	+2.5	74	−11	2.80	+0.70	2.00	5.1	7	13	6	12
1912	36.5	+2.3	72	2	0.59	−1.46	0.91	0.6	3	19	5	7
1913	38.3	+4.9	71	−3	2.27	+0.19	2.25	6.6	7	9	4	18
1914	26.8	−7.1	68	−18	2.48	+0.31	2.30	6.6	9	7	5	19
1915	34.7	+1.3	84	−13	2.77	+0.55	3.20	7.8	6	12	6	13
1916	31.3	−2.3	82	−29	1.85	−0.29	3.40	4.4	6	15	6	10
1917	25.5	−8.7	82	−23	0.74	−1.40	2.51	7.3	5	11	7	13
1918	40.0	+6.6	83	−12	3.21	+1.14	5.50	7.8	7	13	6	12
1919	28.5	−4.5	74	−22	0.69	−1.50	2.65	0.7	3	12	4	15
1920	35.6	+2.6	77	−10	1.93	−0.22	2.30	2.3	5	13	7	11

Climatological Data for December, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	650	39	34.2	+3.6	69	12	2	28	41	1.41	−0.30	0.50	0.5	6	16	0	15	nw.	O. K. Benecke.
Clifton Hill	Randolph	731	21	35.5	+4.8	65	12	−1	28	35	0.98	−0.61	0.65	2.5	6	16	5	10	......	L. S. Harlan.
Columbia	Boone	784	31	35.9	+3.0	68	12	−1	28	36	1.33	−0.68	0.43	2.2	9	10	7	14	w.	U. S. Weather Bureau.
Downing	Schuyler	878	11	31.2	....	64	3	−10	28	28	1.67	+0.01	0.51	2.7	8	10	4	17	n.	E. E. St. Clair.
Fayette	Howard	725	41	32.6^{a}	+1.1	66	12	−4	28	41	0.40	−1.33	0.21	1.0	4	....	....	....	......	L. W. Jacobs, jr.
Fulton	Callaway	818	33	35.9	+2.2	62	2	−1	28	34	2.11	+0.11	0.58	1.2	9	9	14	8	s.	Westminster College.
Gorin	Scotland	700	32	......	....	......	......	......	......	....	1.35	−0.50	0.75	3.0	6	5	9	17	sw.	J. W. Pulliam.
Hannibal	Marion	534	37	34.0	+2.7	62	3	0	28	30	0.96	−0.69	0.57	1.6	6	8	9	14	w	U. S. Weather Bureau.
Jefferson City	Cole	557	37	35.0	+2.1	68	2	0	28	40	1.41	−0.49	0.42	1.0	8	16	7	8	n.	Miss Emma Swift.
Kirksville	Adair	969	38	31.2	+1.8	62	3†	−1	27†	35	1.26	−0.46	0.51	0.1	3	11	4	16	nw.	Prof. J. S. Stokes.
Louisiana	Pike	469	39	35.2	+4.2	64	13	−2	28	31	2.51	+0.79	0.85	3.2	10	15	4	12	sw.	J. T. Farrell.
Macon	Macon	875	26	31.7	+1.2	65	3†	−4	28	46	1.24	−0.26	0.42	2.3	8	14	6	11	se.	W. C. Brown.
Mexico	Audrain	797	41	35.0	+2.8	66	12	−1	28	34	1.00	−1.11	0.30	2.2	9	14	2	15	s.	Mrs. Abbie Snoddy.
Palmyra	Marion	652	20	31.2	−0.8	62	3	−2	28†	35	1.06	−0.86	0.37	1.0	6	12	6	13	nw.	W. B. Markell.
St. Catharine	Linn	850	9	33.1	....	64	12	−5	28	34	1.28	....	0.55	3.0	8	13	9	9	nw.	L. D. Baker.
St. Charles	St. Charles	456	41	37.5	+2.5	66	2	−2	28	37	1.96	+0.04	0.60	3.5	5	9	8	14	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	83	37.5	+2.0	64	2	5	28	28	2.41	+0.18	0.87	3.4	8	9	9	13	s.	U. S. Weather Bureau.
St. Louis (2)	....do	578	8	36.8	+2.1	63	2†	4	28	28	2.23	+0.13	0.84	4.2	10	8	8	15	se.	St. Louis University.
Shelbina	Shelby	779	27	......	....	......	......	......	......	....	0.93	−0.85	0.53	4.6	2	....	....	....	......	S. G. Parsons.
Steffenville	Lewis	650	26	32.9^{a}	+2.5	65	3	1	27	31	0.71	−0.98	0.30	3.0	5	12^{a}	10^{a}	8^{a}	n.	Frank Hall.
Unionville	Putnam	1,072	27	29.8	+2.4	62	12	−10	28	34	2.19	+0.59	0.50	7.0	6	11	9	11	nw.	Geo. W. Davis.
Warrenton	Warren	865	38	34.0	+1.9	65	12	−2	28	42	2.60	+0.43	0.71	2.0	11	3	16	12	nw.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	48	32.8	+3.4	63	3	−3	28	31	0.61	−1.26	0.28	2.1	6	6	11	14	w.	U. S. Weather Bureau.
Section means and	extremes	......	....	34.0	+2.4	69	12	−10	28	46	1.42	−0.33	0.87	2.5	7	11	7	13	nw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	220	29	42.7	+2.7	67	12	17	28	32	6.49	+2.11	1.75	T.	7	11	2	18	e.	H. E. Averill.
Doniphan	Ripley	344	16	39.1	+1.4	64	10	10	28	35	5.09	+1.67	2.15	T.	7	20	3	8	nw.	W. W. Martin.
Jackson	Cape Girardeau	458	30	39.6	+3.0	66	3†	10	25†	34	4.15	+0.90	2.00	1.0	6	10	7	11	s.	John J. Putz.
Marble Hill	Bollinger	420	26	39.8	+3.8	66	12	9	28	38	4.72	+1.35	1.90	1.0	6	14	8	9	s	F. W. Wells.
Parma	New Madrid	281	....	......	....	......	......	......	......	....	6.76	....	1.83	0	7	....	....	....	......	J. E. Pearce.
Patton (near)	Bollinger	500	10	......	....	...	......	..	......	....	4.24	+1.10	2.10	0	5	...	....	....	......	George F. Ellis.
Poplar Bluff	Butler	329	16	......	....	......	......	......	......	....	4.44	+0.08	1.95	T.	5	18	2	11	......	Miss Belle Kinne.
Vanduser	Scott	304	....	......	....	......	......	......	......	....	6.41	....	2.30	0	7	....	....	....	...	M. L. Armstrong.
Cairo, Ill.	Alexander, Ill	359	45	40.2	+1.7	64	12	14	28	23	5.10	+1.77	2.30	0.4	8	8	9	14	s.	U. S. Weather Bureau
Section means and	extremes	......	....	40.3	+2.5	67	12	9	28	38	5.37	+1.48	2.30	0.3	7	13	6	12	s.	
Ozark Plateau.																				
Arcadia	Iron	925	42	36.8	+2.5	63	5	4	28	44	3.03	−0.01	1.27	2.0	10	16	8	7	sw	Arcadia College.
Aurora	Lawrence	1,370	....	......	....	......	......	......	......	....	......	....	......	......	....	....	....	....	......	C. D. Sprague.
Birchtree	Shannon	1,078	26	39.0	+3.2	63	12	5	28	36	2.55	−0.10	1.23	1.0	6	17	4	10	s.	V. H. Kirkendall
Bolivar	Polk	1,071	33	38.8	+3.1	69	12	4	28	39	1.31	−1.17	0.43	1.0	6	13	7	11	s.	K. H. Brown.
Cassville	Barry	1,475	21	...	....	......	......	......	......	....	......	....	......	......	....	....	....	....	......	R. H. Wallen.
Dean ‡‡	McDonald	1,000	21	38.4^{c}	+1.0	77	15	7	28	53	3.17	+1.03	1.26	T.	4	16^{c}	4^{c}	8^{c}	w.	H. E. Dean.
Eldon	Miller	934	21	36.0^{c}	+1.6	70	12	−2	28	45	0.71	−1.63	0.35	T.	3	10	9	12	s.	E. H. Shepherd.
Farmington	St. Francois	918	23	36.0	+1.6	61	12	5	28	25	2.95	+0.15	1.22	3.0	5	11	8	12	sw.	Robert Forsyth.
Gano ‡‡	Dent	1,250	18	36.5	+1.3	62	2	1	28	34	2.76	+0.70	0.86	3.0	5	14	7	10	s	A. C. Leach.
Goodland	Iron	1,000	27	36.7	+2.3	62	5†	2	26	45	2.52	−0.01	0.89	2.0	5	18	3	10	n.	F. M. Adams.
Hollister	Taney	735	17	42.7	+3.1	70	4†	8	28	48	2.40	+0.05	1.20	1.0	3	18	0	13	sw.	W. P. Chapmann.
Houston	Texas	1,280	27	......	....	......	......	......		....	2.28	−0.01	0.45	4.5	7	15	6	10	sw.	Walter T. Beard.
Koshkonong	Oregon	958	19	40.6	+3.1	66	2	10	28	34	2.63	−0.69	0.77	2.0	6	15	1	15	nw.	R. M. Hitt.
Lebanon	Laclede	1,265	32	36.1	+1.1	68	2†	1	28	36	2.02	−0.62	0.64	3.2	7	12	9	10	s.	Leonard E. Dickersen
Lockwood	Dade	1,078	24	38.8	+3.3	68	13	7	24	33	2.06	+0.07	0.86	5.0	3	20	2	9	sw.	C. S. Crow.
Mountain Grove	Wright	1,490	23	36.0	+1.6	68	5	7	28	42	2.34	+0.03	0.76	1.5	4	8	7	16	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	39.4	+2.8	66	5	6	28	37	2.10	−0.51	0.95	0.2	5	17	4	10	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,139	36	38.5	+5.2	68	2	0	28	34	2.04	−0.07	0.70	4.5	5	17	6	8	s.	Prof. Elmo G. Harris.
Seymour	Webster	....	..	38.0	+3.8	63	2†	7	27†	36	2.82	+0.83	1.24	T.	6	11	8	12	s.	Ira H. Hailey.
Springfield	Greene	1,350	42	38.1	+2.6	67	12	7	27	28	1.84	−0.83	0.55	1.6	8	13	7	11	se.	U. S. Weather Bureau
Section means and	extremes	....	....	38.0	+2.5	77	15	−2	28	53	2.31	−0.16	1.27	2.0	5	14	6	11	s.	
Southwest Plain.																				
Amoret	Bates	831	13	36.0	+3.3	65	12	4	28	36	0.82	−0.95	0.62	T.	4	13	13	5	sw.	Darby Fruit Farm.
Appleton City	St. Clair	853	28	37.8	+3.4	68	12	6	24†	33	0.79	−0.93	0.42	0.2	6	13	11	7	sw.	W. G. Bigelow.
Clinton	Henry	765	33	38.4	+4.0	70	12	6	24	35	1.21	−0.57	0.66	0.5	3	11	9	11	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	912	44	35.2	+4.0	66	12	3	24†	36	0.83	−1.01	0.37	0.4	5	5	10	16	n.	John H. Patterson.
Lamar	Barton	980	39	35.0	−0.3	66	12	6	24†	30	1.40	−0.59	0.52	0.5	6	14	4	13	se.	Joe W. Springer.
Lamonte	Pettis	863	33	37.1	+2.7	70	3	2	27	37	0.68	−1.05	0.30	0.2	4	8	18	5	ne.	George B. Wagner.
Marshall	Saline	779	31	36.4^{a}	+4.8	65	2†	1	28	32	0.65	−1.04	0.47	0.7	5	15^{a}	10^{a}	5^{a}	sw.	Dr. W. H. Black.
Nevada	Vernon	860	28	38.4	+4.5	68	12	7	27	32	0.92	−1.00	0.70	1.0	4	14	4	13	s.	George A. Kaupp.
Warrensburg	Johnson	883	42	33.5^{g}	+0.1	67	11	5	24†	33	......	....	......	......	....	....	....	....	....	S. I. Major.
Warsaw	Benton	715	25	38.9	+4.2	70	12	0	28	36	1.53	−0.88	0.52	4.0	6	9	14	8	w.	J. R. Smith, M. D.
Section means and	extremes	....	....	36.7	+3.1	70	3†	0	28	37	0.98	−0.89	0.66	0.8	5	12	9	10	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	30	35.8	+3.4	65	12	2	24	29	1.85	+0.33	1.25	0.5	4	15	8	8	se.	F. G. Ashbaugh.
Bethany	Harrison	916	28	31.9	+1.0	60	3	−3	28	35	0.94	−0.56	0.40	0.4	5	10	11	10	nw.	M. H. Moulton.
Chillicothe	Livingston	768	15	37.0	+0.1	67	12	0	28	36	1.11	−0.83	0.65	3.0	3	18	7	6	nw.	G. L. Fellinger.
Conception	Nodaway	982	35	31.0	+1.3	60	12	−5	24	38	0.83	−0.24	0.60	4.0	4	12	8	11	nw.	Fr. Adelhelm Hess.
Edgerton	Platte	856	....	32.9^{c}	....	64	12	−10	28	47	0.76	....	0.48	2.0	3	15	6	10	sw.	Fred L. Stiff.
Grant City	Worth	1,134	29	31.6^{a}	+3.6	62	3	−3	24	42	1.30	+0.05	0.50	13.0	4	13	7	11	nw.	J. F. Hunter.
Kansas City	Jackson	963	31	35.8	+4.3	64	12	4	24	33	0.89	−0.17	0.73	0.7	4	14	8	9	nw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	33	31.5	+2.0	60	3	−7	28	55	0.88	−0.54	0.29	4.0	4	12	1	18	nw.	Linn Terry.
Lexington	Lafayette	688	38	35.4	+3.8	67	12	2	28	35	0.97	−0.81	0.45	T.	4	13	0	18	s.	J. W. Keithley.
Liberty	Clay	864	30	35.7	+3.8	65	12	−1	28	40	0.85	−0.64	0.71	1.1	3	15	9	7	sw.	James H. Harris.
Maryville	Nodaway	1,036	30	27.6	+1.3	59	12	−7	24†	39	0.85	−0.31	0.30	4.5	5	13	5	13	n.	J. R. Brink.
Oregon	Holt	1,048	64	31.5	+3.0	59	3†	−3	24	37	1.25	−0.26	0.77	5.0	2	12	8	11	nw.	Tom Curry.
St. Joseph	Buchanan	967	46	33.2	+3.3	61	12	0	24	35	0.87	−0.24	0.52	1.2	3	11	7	13	nw.	U. S. Weather Bureau
Tarkio	Atchison	976	27	30.8	+5.6	59	12	−6	24	38	0.62	−0.37	0.45	6.0	2	19	3	9	nw.	John F. Frazier
Trenton	Grundy	822	25	32.7	+2.9	61	12	−4	28	36	1.09	−0.45	0.46	3.0	4	15	8	8	nw.	W. H. Estes.
Section means and	extremes	......	..	32.9	+2.8	67	12	−10	28	55	1.00	−0.38	1.25	3.2	3	14	6	11	nw.	
State means and	extremes	....	...	35.6	+2.6	77	15	−10	28	55	1.93	−0.22	2.30	2.3	5	13	7	11	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, appearing in the table indicate number of days missing: for example, b represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for December, 1920.

Stations.	Watersheds.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Northeast Plain.																																	
Boonville ‡	Missouri				.10						T.			.12	.14	T.				T.		.28		T.			.05	.11					0.80
Brunswick ‖	Grand				.04									.47	.35					.02		.50					.03						1.41
Clifton Hill	Chariton				.01						T.			.21	.03					.03		.65				.05	T.					T.	0.98
Columbia***	Missouri			.01	.01			T		.13				.32							.02	.35	T.	T.		.02	.43					.04	1.33
Downing	Mississippi				.40	T.					T.			.51	.03	.01				.01		.47				.18	.06					T.	1.67
Fayette	Missouri			.10										.21												.05	.04						0.40
Fulton	do	.02		.05	.58					.26				.43	.05							.52	.05	T.			.15						2.11
Glencoe ‖	Meramec																																......
Gorin	Mississippi				.11									.75	.14				.04			.19				.12							1.35
Hannibal***	do			T.						T.				.57		T.			.01	.03		.28	T.	T.		.01	.06	T.					0.96
Hermann ‡	Missouri				.03	.04					.04			1.03	.13							.65	.10	.06				.10					2.18
Jefferson City ‖	do	.02			.32									.35	.03							.42	.02				.10	.15					1.41
Kirksville	Mississippi													.51	.25					T.		.50				T.							1.26
Louisiana	do			T.	.24						.41			.85	.05					.07		.36	.13	T.			.15	.01			.24		2.51
Macon ‡	Chariton	.11			.04									.18	.18					.06		.42	.11				.14						1.24
Mexico ‡	Mississippi			.04	.07						.16			.30	.14				T.	.02			.04	T.			.03	.20					1.00
Pacific ‖	Meramec	.03			.01	.49					.01			.58	.10							.54	.14	.03			T.	.30					2.23
Palmyra ‖	Mississippi												T.	.21	.22					T.		.37	.12	T.		T.		.10				.04	1.06
St. Catharine	Grand	.01			T.									.55	.10					.05		.47	.02	T.		.05	.03					T.	1.28
St. Charles	Missouri				.46					T.				.60								.52	.13				.25						1.96
St. Louis (1)***	Mississippi	T.		.02	.21		T.			.03				.87						T.		.70	.18	T.	T.	.12	.28	T.					2.41
St. Louis (2)	do	.02		.03	.12					.04			T.	.84						T.		.72	.16	.01	T.	.03	.26	T.				T.	2.23
Shelbina	do													.40									.53										0.93
Steffenville	do	T.				T.								.30	.15							T.	T.	T.		.02	.10	.14		T.			0.71
Union ‖	Meramec	.13			.02	.75					.02			.28	.04							.72	.12	.10			.01	.25					2.44
Unionville	Chariton			.42										.80	T.					.02		.50	T.			.35	T.				.10		2.19
Valley Park ‖	Meramec	T.			.02	.47				.03	.02			.28	.07							.57	.07	.15			.18						1.86
Warrenton ‡‖	Mississippi	.15			.30	.05	.01				.08			.66	.19							.71	.05	.12			T.	.28					2.60
Keokuk, Iowa***	do			T.	.01					T.				.28	.01	T.			T.	T.		.18	.01	T.		.12							0.61
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi	.09			.50	.12			.12					.10	.12							.85	.90	.23			.30	.35					3.68
Caruthersville	do				.82			1.00						.30								1.75	.85				1.75	T.				.02	6.49
Doniphan	Black				.75			.46				.03		.45								2.15	.10				1.15						5.09
Jackson	Mississippi	.08			.71			T.						.31								2.00	.52				.53						4.15
Marble Hill	do			1.00	.30									.70								1.90	.42				.40						4.72
New Madrid ‖	do	.07			1.00	.01		.15	.85					.05	.18							.50	1.90	.45			1.00	.50					6.66
Parma	do				.74		.70						.05	.36								1.80	1.83				1.28						6.76
Patton (near)	do	.14			.48									.78								2.10					.74						4.24
Poplar Bluff ‖	Black				1.10			.34	T.			T.		.50													1.95	.55					4.44
Vanduser	Mississippi			.92				.35						.27								2.30	1.21			.98	.38						6.41
Cairo, Ill.***	do	.02		T.	.81			.20		T.			T.	.28								2.30	.35	T.		.14	1.00	T.				T.	5.10
Ozark Plateau.																																	
Arcadia ‖	St. Francis	.05			.41	.22							T.	.48	.16							1.27	.10	.02			.10	.22					3.03
Aurora	White																																......
Birchtree	Black				.15			.22						.50								1.23	.13				.32						2.55
Bolivar	Osage	T.		T.	.05			.30						.16	.03							.43					.34						1.31
Dean	Neosho			T.				1.00						.51								1.26					.40						3.17
Eldon	Osage				.35									.05													.31						0.71
Farmington	St. Francis	T.			.52									.70								1.22	.20				.31						2.95
Gano	Meramec	T.			.86									.50								.73	.33				.34						2.76
Goodland	Black				44								.59							.89	.20				.40								2.52
Hollister	White						1.10	.10						1.20																			2.40
Houston	Gasconade			T.	.43			.15						51								.45	.13				.31					.30	2.28
Koshkonong	Black				.42			.30						.43								.60	.11				.77						2.63
Lebanon ‖	Osage				.37					.03				.64	.05							.62					.03	.28					2.02
Lockwood	do							.82														.86					.38						2.06
Mountain Grove ‡	White				.53			.43						.62							.76						T.						2.34
Neosho	Neosho			T.			.05	.78						.30								.95	T.	T.			T.	.02					2.10
Rolla ‡	Meramec				.26									.62								.70	.15			T.	.31						2.04
Seymour	White			.01	.05			.43						.95							T.	1.24	T.	T.		.14	T.	T.					2.82
Springfield***	do	T.		T.	.12		.35	.20		.02				.42							.18	.22	T.	T.		T.	.33	T.				T.	1.84
Steelville ‖	Meramec	.07			.24	.40								.40								.62	.05	.15				.30					2.23
Tuscumbia ‖	Osage				.53									.40	.01							.44	T				.01	.32					1.71
Southwest Plain.																																	
Amoret	Osage	.04								.10				T.	.06							.62	T.				T.						0.82
Appleton City	do				.08					.06				.15	.02							.42	T.	T.			.06					T.	0.79
Clinton	do				.66																	.50				.05							1.21
Harrisonville ‖	do				.18									.09	.17							.37										.02	0.83
Lamar ‖	Neosho	.03						T.	.36					.07								.52					.30	.12					1.40
Lamonte	Missouri				.30			.05												.30						.03							0.68
Marshall	do				.06					T.				.05	.05					T.		T.	T.	.47		T.	.02					T.	0.65
Nevada	Osage				.05									.02								.70					.15						0.92
Osceola ‖	do													.08	.05							.43					.18						0.74
Warrensburg	Missouri																																......
Warsaw	Osage	T.			.22					.10				.12	.11							.52		T.		T.	.46						1.53
Waverly ‡	Missouri	T.			T.									.43	.60					T.		.45					T.	T.					1.48
Northwest Plateau.																																	
Avalon	Grand														1.25						.45					.05				.10			1.85
Bethany	do			T.	T.									.40	.10							.40				.02	.02						0.94
Chillicothe	do													.65							.20		T.			.26							1.11
Conception	Missouri				T.									.13					.05			.60				.05							0.83
Edgerton	Grand													.23								.48	T.			.05							0.76
Grant City	do													.10	.50					.20		.50											1.30
Kansas City***	Missouri			T.				T.		T.				.15						T.	.48	.25	T.			.01	T						0.89
Kidder ‖	Grand	.13													.29							.16					.30						0.88
Lexington ‖	Missouri				.02									.33	.17							.45				T.							0.97
Liberty	do									T.				.12						T.		.71	T.			.02							0.85
Maryville ‖	do				T										.25					.15		.30	.10				.05						0.85
Oregon	do													.77					T.			.48	T.			T.							1.25
St. Joseph***	do			T.										.35					T	T.	.27	.25	T.			T.	T.						0.87
Tarkio	do													.45					.17		T.												0.62
Trenton	Grand													.46	.15				T.		.21	T.	T.			.27							1.09

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for December, 1920.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	48	66	64	41	60	46	38	41	49	52	58	69	51	47	43	50	37	27	32	41	51	26	23	22	35	31	15	34	45	55	55	43.6
	Minimum	34	30	35	39	27	32	32	31	26	34	34	34	48	32	34	26	27	11	18	21	25	26	13	4	6	22	5	2	4	27	30	24.8
Columbia	Maximum	42	67	64	57	58	46	39	39	41	49	56	68	59	48	41	49	37	30	30	37	51	42	21	17	34	35	15	32	41	52	60	43.9
	Minimum	32	31	57	31	29	36	33	30	32	35	41	40	33	34	35	31	26	20	25	22	36	17	13	6	17	14	5	−1	31	35	40	27.9
Fayette	Maximum	65	64	56	54	46	35	38	39	49	55	66	52	45	40	47	34	28	30	38	47	34	20	18	32	32	13	29	37	51	53	....	^{a}41.6
	Minimum	28	26	56	27	24	32	31	27	23	32	32	28	30	32	32	26	24	17	22	18	32	14	8	3	12	10	3	−4	29	25	34	23.6
Hannibal	Maximum	41	60	62	56	39	42	38	40	41	47	57	62	60	46	40	50	34	29	26	36	48	47	24	19	32	34	17	29	40	50	53	41.9
	Minimum	31	33	56	32	26	30	34	27	29	34	34	35	34	34	34	31	26	18	20	20	33	17	10	6	14	17	4	0	29	32	30	26.1
Jefferson City §§	Maximum	44	68	62	47	40	50	40	45	46	50	58	65	60	57	46	52	38	35	32	42	54	35	27	23	37	38	15	26	40	52	59	44.6
	Minimum	32	32	34	47	29	31	32	28	28	36	35	35	39	34	34	32	27	20	17	22	22	31	16	7	7	22	6	0	4	12	35	25.4
Kirksville	Maximum	44	60	62	60	35	39	36	33	42	45	54	62	55	41	39	47	42	29	25	32	40	40	21	18	25	33	24	26	38	53	48	40.4
	Minimum	31	31	41	31	23	28	28	24	25	31	33	33	35	29	30	27	24	14	12	15	15	5	12	1	7	21	−1	−1	22	23	34	22.1
Louisiana	Maximum	45	58	60	60	52	45	43	40	42	44	54	60	61	60	50	48	48	48	36	34	42	40	37	22	26	34	28	23	38	38	54	44.3
	Minimum	32	32	52	40	26	33	31	22	25	36	32	29	52	34	34	32	28	20	20	18	32	32	15	6	5	20	10	−2	15	18	28	26.1
Macon §§	Maximum	43	63	65	40	50	44	38	37	44	48	55	65	54	45	40	47	31	28	30	36	43	30	21	20	33	30	14	31	45	51	52	41.2
	Minimum	30	30	33	38	26	31	30	24	25	28	32	33	37	30	31	27	24	15	15	16	20	27	12	1	2	17	1	−4	−1	29	30	22.2
Mexico §§	Maximum	40	63	64	63	62	58	48	41	44	49	57	66	60	48	42	51	40	31	31	38	49	33	25	22	34	34	15	33	41	50	55	44.7
	Minimum	30	32	35	42	43	30	29	28	28	32	35	33	45	33	33	29	26	18	19	20	24	30	15	5	5	19	4	−1	1	36	36	25.4
St. Catharine	Maximum	45	60	62	60	53	43	38	35	41	47	55	64	63	45	42	47	44	30	30	35	45	44	23	20	27	32	26	29	43	50	50	42.9
	Minimum	31	28	48	35	22	29	27	24	26	30	35	33	35	28	30	24	23	15	18	16	29	17	11	0	10	24	−1	−5	25	26	30	23.3
St. Louis (1)	Maximum	49	64	58	57	49	43	42	42	47	48	55	63	63	54	42	55	38	34	31	42	51	49	24	19	32	33	25	28	45	53	55	41.8
	Minimum	35	38	53	37	31	36	33	29	34	39	37	44	36	36	35	35	29	21	25	23	33	21	17	12	12	24	11	5	27	41	41	30.2
Unionville	Maximum	42	58	60	[illegible]	35	38	36	45	38	48	45	62	56	44	38	45	40	30	25	32	36	35	20	16	23	30	25	24	37	38	48	38.8
	Minimum	32	30	44	33	20	30	28	24	23	30	32	34	32	28	30	27	24	12	5	12	24	15	8	−2	6	18	−4	−10	8	20	32	20.8
Warrenton §§	Maximum	42	62	57	48	55	42	40	41	42	50	57	65	64	43	40	51	35	32	30	40	50	33	23	21	33	33	14	32	42	52	57	42.6
	Minimum	32	31	33	37	31	34	33	28	28	32	35	38	43	33	33	30	27	20	19	20	22	32	15	5	7	15	6	−2	0	32	35	25.3
Southeast Lowlands.																																	
Caruthersville	Maximum	45	46	57	64	64	50	46	45	45	56	65	67	63	60	52	60	52	52	52	46	52	48	40	37	45	47	44	36	52	61	58	51.8
	Minimum	36	33	31	47	32	40	36	32	31	39	34	44	44	37	37	37	34	25	31	30	40	38	27	22	24	35	26	17	27	34	36	33.6
Doniphan	Maximum	51	60	55	58	56	50	48	45	53	64	59	61	63	56	46	60	45	42	45	41	52	50	35	30	37	39	39	31	48	50	57	49.2
	Minimum	32	25	25	45	26	38	32	30	32	38	29	28	50	33	35	34	31	31	21	26	25	31	23	16	16	33	19	10	25	27	34	29.0
Jackson	Maximum	52	69	66	60	60	47	42	44	41	55	58	66	62	58	50	53	49	44	42	49	51	52	34	30	34	37	35	30	45	50	54	48.7
	Minimum	38	26	49	44	26	35	36	28	32	40	26	36	51	35	35	31	29	17	28	21	37	31	24	17	10	32	20	10	24	31	35	30.5
Cairo, Ill.	Maximum	49	60	56	58	56	46	39	40	41	50	59	64	62	55	46	53	46	40	42	48	51	51	31	27	37	42	35	28	46	54	55	47.3
	Minimum	38	37	49	39	33	38	33	31	36	39	36	52	43	38	35	33	32	28	28	26	37	30	24	19	19	33	17	14	27	37	47	33.2
Ozark Plateau.																																	
Arcadia §§	Maximum	50	61	56	52	63	50	49	47	46	57	58	62	62	54	44	56	42	43	41	42	50	42	28	26	34	34	19	30	49	54	61	46.9
	Minimum	35	30	36	49	29	29	34	30	26	36	28	36	46	35	34	31	28	17	19	17	20	40	21	10	10	19	13	4	5	25	36	26.8
Birchtree	Maximum	56	61	60	55	62	56	46	59	39	55	61	63	59	55	47	59	48	42	48	45	51	48	28	29	35	36	32	30	52	58	55	49.4
	Minimum	30	30	50	40	26	41	31	27	31	35	31	41	39	32	30	29	26	18	24	23	35	25	20	11	16	30	11	5	22	34	43	28.7
Eldon	Maximum	45	69	61	52	52	51	45	51	54	60	60	70	56	49	45	45	42	35	39	....	....	....	35	34	36	36	25	39	43	56	65	^{c}48.0
	Minimum	27	24	51	33	29	35	39	27	24	32	35	31	30	28	26	26	23	20	19	19	36	15	11	3	10	20	2	−2	26	26	32	24.1
Farmington	Maximum	44	56	53	44	56	46	40	38	44	47	54	61	58	51	45	52	48	38	36	41	48	46	26	20	31	32	30	30	36	48	52	43.6
	Minimum	32	31	39	38	31	38	32	26	28	36	36	41	51	31	31	31	26	19	25	19	34	26	19	8	11	30	10	5	23	31	38	28.5
Gano	Maximum	46	62	56	53	59	50	45	41	47	49	57	61	58	48	44	51	41	38	37	42	50	50	23	22	32	33	31	31	47	48	53	45.5
	Minimum	32	32	50	36	25	40	32	27	29	35	36	41	39	33	30	30	25	20	23	19	36	22	16	5	8	29	6	1	23	30	42	27.5
Hollister	Maximum	54	68	63	70	70	69	54	45	49	58	65	70	65	54	5	58	60	55	54	50	56	50	56	50	15	55	35	41	60	55	62	56.3
	Minimum	30	20	51	50	50	54	32	30	28	30	30	30	40	31	32	30	30	20	20	23	34	30	15	20	20	34	10	8	20	25	22	29.1
Koshkonong	Maximum	52	66	56	55	64	50	45	48	41	56	62	64	61	56	48	63	53	43	48	38	51	51	32	30	37	38	36	34	55	56	55	49.8
	Minimum	35	32	50	43	34	42	32	29	30	37	35	42	42	34	31	33	29	27	26	25	36	31	21	15	18	32	14	10	24	35	45	31.4
Lebanon §§	Maximum	45	68	62	60	64	56	40	45	50	55	58	68	54	48	48	52	41	46	40	43	51	35	18	28	36	41	20	36	36	55	60	47.0
	Minimum	34	32	34	41	35	30	32	28	28	31	32	40	30	32	32	28	25	18	19	23	24	21	14	5	6	27	7	1	4	25	36	25.2
Mountain Grove	Maximum	47	47	51	47	68	53	43	48	39	51	58	62	53	51	47	54	39	42	39	43	31	32	26	30	28	34	21	34	52	51	53	44.5
	Minimum	33	32	34	37	32	35	32	28	30	34	31	41	46	34	31	30	25	21	22	24	26	30	8	9	24	26	8	7	10	31	36	27.5
Neosho	Maximum	43	63	63	61	66	58	48	44	48	55	61	64	63	51	46	55	51	41	44	43	52	52	27	33	35	34	32	36	50	55	68	49.7
	Minimum	33	32	56	40	29	41	32	29	28	28	40	35	36	31	33	30	24	19	20	28	38	20	13	18	19	30	10	6	30	37	30	29.0
Rolla §§	Maximum	49	68	59	56	64	53	44	46	50	55	60	66	62	51	42	50	41	38	38	41	53	54	29	25	31	34	32	33	43	58	55	47.9
	Minimum	33	34	40	47	31	41	33	30	30	35	39	41	42	33	33	30	26	19	24	22	38	20	17	6	12	32	8	0	26	38	43	29.1
Springfield	Maximum	43	64	62	53	60	52	37	40	40	53	58	67	57	47	42	50	38	39	42	40	55	37	26	23	37	38	21	37	56	52	65	46.2
	Minimum	34	37	53	37	37	37	31	28	32	35	40	41	33	34	32	33	27	28	26	30	37	18	13	7	22	21	7	9	30	39	43	20.0
Southwest Plain.																																	
Amoret	Maximum	40	62	62	57	63	54	45	41	39	47	58	65	55	48	44	54	46	36	36	42	57	40	23	18	40	35	24	40	42	56	62	46.2
	Minimum	32	30	52	35	29	38	31	20	27	27	35	35	30	30	29	25	22	22	21	23	31	16	10	2	18	24	5	4	27	30	35	25.9
Appleton City	Maximum	39	63	61	58	61	56	45	39	40	51	58	68	60	48	45	53	45	36	35	42	57	49	27	23	39	38	27	36	42	52	65	47.1
	Minimum	33	30	52	38	32	42	34	31	28	32	37	39	33	32	33	28	27	24	23	25	39	19	13	6	17	27	7	6	30	32	36	28.5
Clinton	Maximum	47	62	66	60	65	55	45	46	41	55	58	70	62	50	45	55	44	38	37	45	58	53	27	25	38	38	40	38	38	55	67	49.1
	Minimum	32	37	48	30	32	40	32	31	27	34	38	35	32	25	32	23	25	22	22	30	38	18	13	6	15	27	25	15	13	30	36	27.8
Harrisonville §§	Maximum	43	56	64	54	64	41	39	38	40	51	57	66	45	47	45	52	42	32	33	44	58	30	35	32	38	25	19	39	40	59	63	44.9
	Minimum	32	31	33	38	34	41	30	31	30	29	29	36	12	32	32	27	25	21	23	23	27	26	10	3	5	25	5	3	10	28	31	25.6
Lamar §§	Maximum	39	57	60	58	60	51	39	39	29	41	51	66	45	46	31	27	40	31	40	45	53	23	21	34	40	33	12	36	39	50	65	42.0
	Minimum	31	31	54	38	30	40	31	29	29	25	38	39	45	29	31	27	24	21	22	27	37	23	12	6	12	31	7	6	26	28	40	28.0
Lamonte	Maximum	41	67	70	61	58	58	43	40	50	58	67	62	47	41	51	41	32	32	41	51	53	22	22	37	35	26	39	54	61	55	61	47.7
	Minimum	33	31	56	36	33	32	27	27	31	30	32	31	32	30	28	19	18	21	21	37	16	12	4	12	24	5	2	34	46	30	33	26.5
Marshall	Maximum	44	65	65	60	59	53	....	43	43	49	55	65	63	40	42	50	47	32	30	40	52	49	21	35	35	35	27	32	42	52	59	^{a}46.2
	Minimum	33	37	53	37	29	34	....	32	25	33	36	34	38	32	32	26	24	18	24	21	31	17	12	4	12	26	6	1	30	29	32	^{a}26.6
Warrensburg	Maximum	65	64	....	....	....	62	....	43	51	67	....	48	46	43	50	....	39	32	32	51	56	21	23	30	37	31	15	35	40	50	....	^{g}43.1
	Minimum	....	32	33	....	....	....	30	....	29	23	40	....	32	32	29	25	....	20	20	22	28	23	12	5	30	29	6	5	10	29	30	^{f}23.9
Warsaw	Maximum	44	68	65	65	67	57	50	46	43	55	58	70	66	49	44	50	47	41	38	43	56	58	27	24	41	39	31	36	45	55	65	49.8
	Minimum	34	27	57	39	25	38	31	30	26	36	41	34	40	31	34	30	27	17	22	25	40	20	14	7	16	27	6	0	28	30	30	28.0
Northwest Plateau.																																	
Chillicothe §§	Maximum	49	62	63	62	56	45	40	39	45	52	58	67	50	45	41	50	46	34	30	37	50	47	22	44	50	46	34	36	58	57	55	47.4
	Minimum	31	30	49	36	24	31	28	31	26	29	37	40	33	31	32	30	25	15	21	20	32	22	12	14	23	21	2	0	27	27	36	26.6
Grant City	Maximum	36	45	59	62	52	55	45	36	40	45	51	57	60	44	42	40	44	26	26	30	36	45	13	13	24	29	24	23	40	41	46	39.7
	Minimum	33	31	43	34	30	31	28	28	25	25	35	36	35	26	28	29	23	14	9	18	29	12	2	−3	11	20	−1	−2	23	32	40	23.4
Kansas City	Maximum	42	59	62	51	60	48	35	39	45	52	56	64	53	45	44	51	39	29	29	41	55	31	20	20	40	37	14	40	42	56	61	43.9
	Minimum	36	36	45	37	39	33	31	30	32	34	40	42	32	32	33	32	26	20	23	22	31	11	8	4	18	11	4	7	32	38	41	27.7
Kidder §§	Maximum	43	58	60	45	49	45	33	41	41	48	53	47	40	40	44	47	41	35	37	40	48	18	12	23	32	22	10	48	44	51	54	40.3
	Minimum	31	30	30	35	32	32	31	30	25	27	27	35	34	27	31	26	20	16	16	20	20	17	9	−1	−1	22	0	−7	31	28	28	22.7
Lexington §§	Maximum	47	61	61	45	61	45	35	43	41	51	57	67	45	47	43	51	40	30	32	41	55	22	24	20	36	30	16	37	41	51	57	43.2
	Minimum	34	30	54	37	30	35	32	31	26	31	38	37	44	32	32	29	24	18	23	20	35	21	11	3	15	29	5	2	31	32	37	27.7
Maryville §§	Maximum	43	53	57	47	51	40	30	35	38	49	56	59	36	40	39	40	34	26	23	33	37	12	9	20	27	23	6	33	38	51	53	36.8
	Minimum	32	29	30	33	28	28	28	26	25	23	23	33	31	22	26	21	20	13	13	10	18	11	−1	−7	−7	15	−3	−6	1	24	28	18.3
Oregon	Maximum	43	55	59	48	56	48	37	36	41	49	54	59	52	40	40	48	40	29	27	37	41	30	11	18	30	30	14	39	41	49	52	40.1
	Minimum	32	33	41	30	32	32	27	27	27	26	34	39	20	26	28	25	23	16	17	19	28	8	0	−3	15	11	−1	−2	29	26	36	22.6
St. Joseph	Maximum	43	56	60	49	59	44	34	38	42	51	55	61	48	42	43	51	35	28	29	38	51	27	13	18	32	30	10	38	40	53	56	41.1
	Minimum	34	35	40	35	32	34	30	30	30	30	38	39	31	30	32	30	25	19	21	22	27	8	4	0	18	8	2	3	33	30	38	25.4
Trenton	Maximum	48	56	60	56	52	41	40	37	41	46	52	61	55	37	40	46	39	30	28	36	45	40	17	18	29	32	19	32	40	42	49	40.8
	Minimum	34	30	46	36	29	32	28	30	28	30	36	36	33	31	30	28	25	17	16	18	30	15	10	1	12	18	0	−4	28	27	35	24.6

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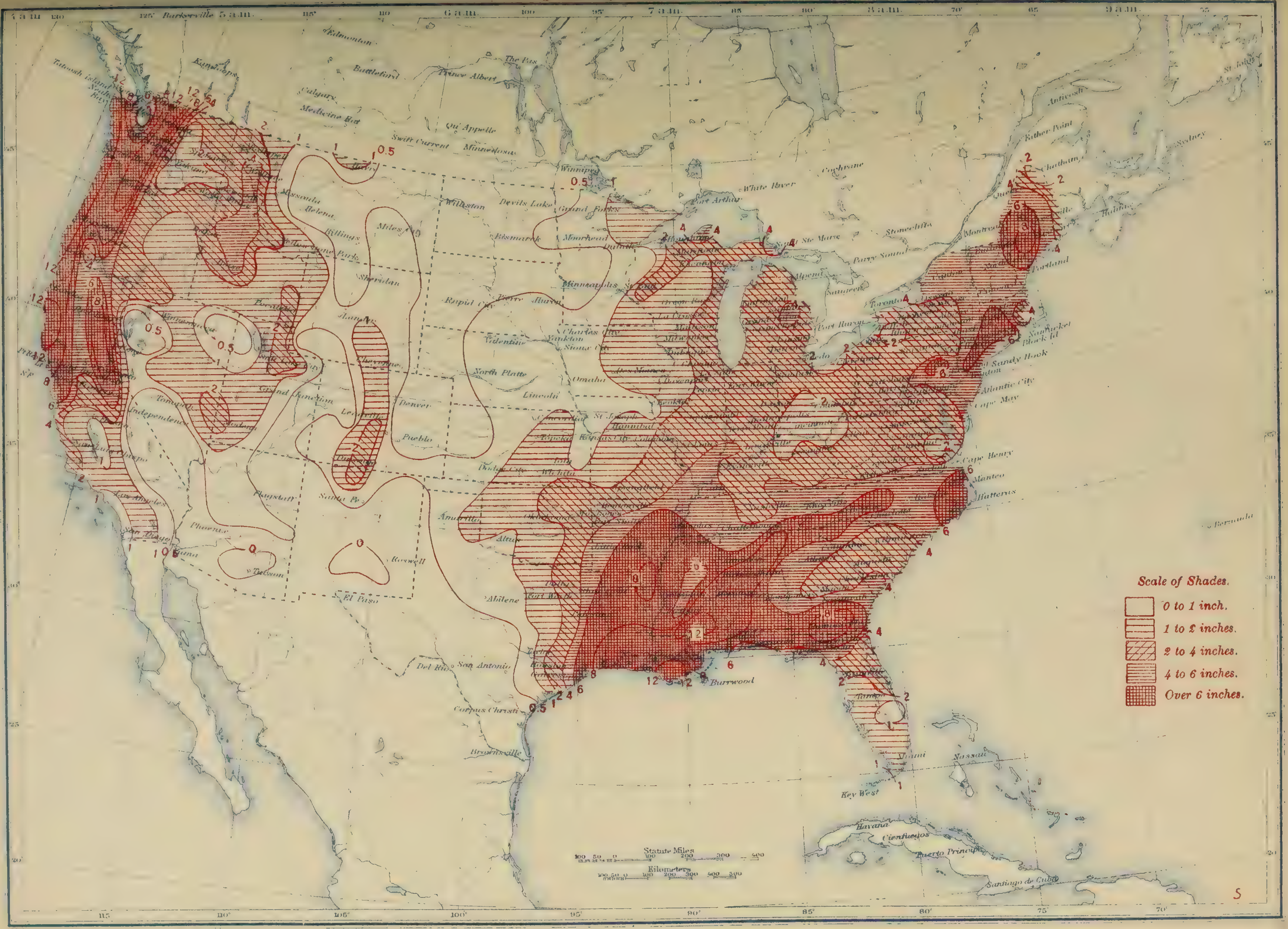
a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

Total Precipitation, Inches, December, 1920.



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CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXV. COLUMBIA, MO., JANUARY, 1921. No. 1.

GENERAL SUMMARY.

January, 1921, in Missouri, was one of the most pleasant months of the name, particularly as to the prevailing temperatures, that has occurred in about thirty years. The last ten days of the month, however, were somewhat too cloudy and wet for outdoor occupations.

So continuously mild was the weather that remarks to the effect that "our climate has changed" and "never before has a winter been so mild in Missouri" were quite common. To trust to memory alone is not a safe plan. It is a climatological fact, that after one has lived about thirty years in the same place or latitude, the succeeding years of life in the same place can scarcely bring to one any weather markedly different from conditions experienced at some time during the first thirty years. But one must have carefully recorded climatic data with which to check one's memory.

Our records show that the weather of this January had its duplicate in that of January, 1914. In fact, January, 1914, was a little milder, and had less cloudiness and precipitation (including snow), consequently had more sunshine, and, from the side of personal comfort, was even a more pleasant winter than January, 1921. Several Januarys have been nearly as mild.

The winter wheat crop was in good condition. In southern sections fruit buds had begun to swell, causing some uneasiness for fear of premature blooming with possible subsequent frost damage.

TEMPERATURE.

The monthly mean temperature for the State, 66 stations reporting was 37.1°. The mean departure from the normal for 64 stations having 10 or more years' record was plus 7.2°. Only once before (1914) has such unusual and continuous mild weather prevailed in January as during the present month. Except five or six days during the middle of the month temperatures were almost continuously above the normal in all sections, the average daily excess ranging from about 6° in the Southeast Lowlands and Ozark Plateau to nearly 8° in the Northwest section of the State. Zero occurred on one day, the 17th, at three stations; and minimum temperatures reached 32° or lower on only 21 days.

PRECIPITATION.

The average for the State, 84 stations reporting, was 1.88 inches. The departure from the normal for 73 stations having 10 or more years' record was minus 0.38 inch. There was not much precipitation during the first ten days; general precipitation occurred on 12th, and the last eight days were, as a rule, cloudy and wet. The total fall for the month was sufficient for needs and well distributed geographically. The largest local amount was 4.06 inches, at Birchtree, and the least was 0.51 inch, at Kidder.

There was one snow, general over the State, on the 13th. Over the central and western parts of the State it was quite a deep snow, the amounts ranging from 6 to 8 inches, and even to 9, 10, and 11 inches in a few localities. It melted rapidly and practically was gone by the night of the 15th.

WIND.

The prevailing winds were from the south. The total number of miles, 8 stations equipped with anemometers reporting, was 7,668, or an average hourly velocity 10.3 miles. There were no strong winds.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well placed stations with sunshine recorders reporting, was 141, or 46 per cent of the possible, and about 5 per cent below normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense.—8th, 22nd, and 29th.

Halos, solar.—4th, 10th, 11th, 12th, 20th, 23rd, and 27th. Lunar.—15th, 16th, 17th, 19th, 20th, 23rd, 27th, and 28th.

Sleet.—13th and 24th.

Thunder was heard locally on the 1st and 29th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Max. velocity. Direction.	Max. velocity. Date.
Columbia	30.15	80	66	106	35	6,333	8.5	33	sw.	1
Hannibal	30.16	78	......	......	......	6,983	9.4	32	sw.	1
Kansas City	30.16	76	68	171	56	9,094	12.2	42	nw.	14
St. Joseph	30.14	79	71	131	44	6,142	8.3	36	nw.	14
St. Louis	30.17	72	62	151	50	10,816	14.5	44	s.	6
Springfield	30.16	82	73	120	39	8,667	11.6	30	w.	7
Cairo, Ill	30.20	79	65	......	......	7,687	10.3	33	w.	1
Keokuk, Iowa	30.18	74	67	165	55	5,621	7.6	26	w.	1

COMPARATIVE DATA FOR JANUARY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	21.5	−8.7	74	−32	1.91	−0.08	......	.....	6	.....	.....	....
1889	31.8	+1.6	69	− 2	2.36	+0.37	.....	.....	6	.....	.....	....
1890	33.8	+3.6	81	−19	4.25	+2.26	......	.....	9	.....	.....	....
1891	34.1	+3.9	74	− 1	1.52	−0.47	......	4.3	6	.....	.....	...
1892	24.0	−6.2	67	−25	1.80	−0.19	......	.....	4	14	8	9
1893	22.5	−7.7	66	−14	0.45	−1.54	0.90	2.4	3	9	11	11
1894	31.4	+1.2	77	−35	2.21	−0.22	2.96	2.7	5	13	9	9
1895	24.7	−5.5	78	−22	1.49	−0.50	2.20	9.4	5	14	8	9
1896	32.9	+2.7	71	− 9	1.17	−0.82	2.44	3.1	4	10	7	14
1897	28.4	−1.8	72	−16	4.90	+2.91	6.95	4.0	8	12	7	12
1898	34.3	+4.1	75	−10	3.98	+1.99	3.35	8.4	9	11	8	12
1899	30.2	0.0	70	−21	1.55	−0.44	2.40	4.0	6	12	8	11
1900	34.5	+4.3	77	− 9	1.22	−0.77	2.30	0.2	4	14	7	10
1901	35.0	+4.8	72	−11	1.30	−0.69	2.95	0.8	4	17	7	7
1902	30.1	−0.1	72	−17	1.23	−0.76	3.37	6.9	5	16	7	8
1903	31.4	+1.2	73	−11	1.36	−0.63	1.71	5.0	6	13	6	12
1904	27.0	−3.2	66	−23	2.85	+0.86	4.74	7.4	8	14	6	11
1905	22.3	−7.9	72	−19	1.79	−0.20	2.52	6.8	8	14	6	11
1906	35.6	+5.4	76	− 8	3.64	+1.65	3.00	9.2	6	14	5	12
1907	34.3	+4.1	79	− 5	5.10	+3.11	4.42	2.8	12	7	6	18
1908	34.4	+4.2	68	−10	1.51	−0.48	2.13	3.6	5	19	5	7
1909	33.7	+3.5	83	−20	2.17	+0.18	2.10	6.5	7	6	7	18
1910	32.3	+2.1	78	−24	1.83	−0.16	3.98	3.5	5	13	6	12
1911	34.6	+4.4	78	−19	1.20	−0.70	3.03	0.7	5	8	7	16
1912	20.0	−11.3	70	−36	1.06	−1.20	2.56	6.5	4	14	7	10
1913	33.1	+1.8	74	−12	3.67	+1.30	5.30	2.6	8	13	6	12
1914	38.1	+6.9	78	− 1	1.42	−0.92	2.00	1.0	4	12	7	12
1915	29.1	−2.2	76	−24	2.92	+0.59	3.10	5.4	8	12	5	14
1916	31.6	+0.7	72	−24	7.36	+5.16	4.65	3.4	12	9	4	18
1917	32.9	+2.5	76	−10	1.52	−0.64	2.50	2.3	5	15	7	9
1918	16.4	−14.0	67	−24	1.68	−0.71	3.20	16.6	7	12	7	12
1919	34.0	+3.6	70	−23	0.40	−1.88	3.05	1.4	2	20	5	6
1920	28.6	−1.4	72	− 5	1.57	−0.65	4.15	5.7	5	15	5	11
1921	37.1	+7.2	74	− 1	1.88	−0.38	1.45	5.4	6	10	7	14

Climatological Data for January, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	35.6	+8.8	64	21	8	15†	39	1.51	−0.26	0.45	4.7	7	11	0	20	nw.	O.K. Benecke.
Clifton Hill	Randolph	731	22	36.0	+7.1	64	20	6	15†	36	2.31	+0.30	0.70	7.5	7	14	6	11	...	L. S. Harlan.
Columbia	Boone	748	31	36.8	+9.6	63	6	7	17	29	1.54	−0.69	0.64	8.4	7	7	7	17	s.	U. S. Weather Bureau.
Downing	Schuyler	878	11	34.0	.....	62	20	−1	17	28	1.33	−0.52	0.50	5.9	8	15	5	11	s.	E. E. St. Clair.
Fayette	Howard	661	38	33.4	+6.0	62	19	5	17	44	1.63	−0.48	0.98	6.5	3	..	..	..		L. W. Jacobs, jr.
Fulton	Callaway	818	29	37.0	+7.1	62	21†	7	15	31	1.35	−1.26	0.42	5.6	10	5	14	12	w.	Westminster College.
Gorin	Scotland	700	34	....	.....	..	..	..	..	..	1.41	−0.35	0.93	5.4	4	4	14	13	sw.	J. W. Pulliam.
Hannibal	Marion	534	37	35.6	+8.9	62	20	5	17	25	1.48	−0.72	0.53	6.5	9	9	7	15	sw	U. S. Weather Bureau.
Jefferson City	Cole	557	38	37.4	+7.6	68	21	10	15	34	1.48	−0.84	0.42	7.0	6	15	5	11	s.	Miss Emma Swift.
Kirksville	Adair	969	39	32.3	+7.4	60	20	0	17	36	1.43	−0.21	0.67	3.5	5	6	10	15	nw.	Prof. J. S. Stokes.
Louisiana	Pike	469	40	37.2	+9.3	66	23	5	15	32	1.65	−0.40	0.34	3.7	10	14	5	12	w.	J. T. Farrell.
Macon	Macon	875	28	34.0	+5.3	63	7†	4	17†	38	1.50	−0.36	0.52	4.0	5	12	7	12	w	W. C. Brown.
Mexico	Audrain	800	43	35.9ª	+7.3	63	20	6	17	36	2.09	−0.09	0.63	8.0	10	18	1	12	s.	Mrs. Abbie Snoddy.
Palmyra	Marion	652	22	33.3	+4.9	63	20	4	17†	35	1.66	−0.99	0.59	7.7	8	10	8	13	sw.	W. B. Markell.
St. Catharine	Linn	800	12	33.9	+7.6	60	20	1	17	30	1.30	......	0.60	7.0	7	12	7	12	sw.	L. D. Baker.
St. Charles	St. Charles	456	43	38.8	+7.6	70	21	10	15†	26	1.12	−1.38	0.42	3.0	4	8	8	15	w.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	83	39.2	+8.4	67	21	12	17	24	1.10	−1.17	0.31	2.2	8	6	11	14	s.	U. S. Weather Bureau.
St. Louis (2)	do.	578	9	38.5	+9.0	67	21	12	17	25	0.95	−1.90	0.31	1.0	8	4	10	17	se.	St. Louis University.
Shelbina	Shelby	779	28	....	.....	..	..	..	..	..	1.89	−0.01	0.85	3.8	3	..	..	..	....	S. G. Parsons.
Steffenville	Lewis	650	28	33.8	+5.4	64	20	7	17†	33	2.49	+0.02	0.50	7.0	9	9	6	16	w.	Frank Hall.
Unionville	Putnam	1,062	28	31.9	+8.6	57	20	0	17	35	1.11	−0.99	0.45	5.5	4	11	6	14	n.	Geo. W. Davis.
Warrenton	Warren	816	31	36.1	+6.9	63	21	9	15†	35	1.50	0.96	0.55	4.0	7	6	9	16	s	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	49	33.9	+10.2	62	20	3	17	26	1.92	+0.23	0.80	7.6	6	5	11	15	w.	U. S. Weather Bureau.
Section means and	extremes	.....	..	35.5	+7.6	70	21	−1	17	44	1.55	−0.59	0.98	5.5	7	10	7	14	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	45.6	+6.7	71	22	23	15	33	1.98	−2.72	0.65	3.0	6	17	1	13	e.	H. E. Averill.
Doniphan	Ripley	344	17	41.6	+5.4	66	7†	17	15	39	2.80	−1.60	1.26	4.0	7	14	5	12	nw.	W. W. Martin.
Jackson	Cape Girardeau	428	31	40.4	+6.5	66	2	14	15	45	2.84	−0.99	0.73	2.5	10	6	5	20	s.	John J. Putz.
Marble Hill	Bollinger	470	27	41.2	+6.7	67	21	14	15	33	3.54	−0.13	1.25	2.0	9	11	6	14	n.	R. A. DeWitt.
Parma	New Madrid	281	..	....	.....	..	..	..	..	..	1.87	......	0.47	2.5	7	..	..	..	.....	J. E. Pearce.
Patton (near)	Bollinger	500	11	...	.....	..	..	..	..	..	2.15	−1.10	0.98	2.0	4	..	..	..	.....	George F. Ellis.
Poplar Bluff	Butler	329	17	....	.....	..	..	..	..	..	1.58	−2.47	1.05	0.3	3	15	4	12	...	Miss Belle Kinne.
Vanduser	Scott	304	..	....	.....	..	..	..	..	..	2.04	......	0.43	2.0	12	..	..	..	.....	M. L. Armstrong.
Cairo, Ill.	Alexander, Ill	359	49	41.6	+6.8	67	21	21	15	24	2.27	−1.55	0.68	4.5	11	4	7	20	s	U. S. Weather Bureau
Section means and	extremes	....	..	42.1	+6.4	71	22	14	15	45	2.44	−1.35	1.26	2.8	8	10	5	16	s.	
Ozark Plateau.																				
Arcadia	Iron	926	43	37.6	+5.5	68	21	12	15†	39	2.57	−0.70	0.83	2.7	9	10	7	14	se.	Arcadia College.
Birchtree	Shannon	1,000	28	40.3	+5.9	69	21	10	15	30	4.06	+0.93	1.45	4.0	6	13	3	15	s.	V. H. Kirkendall
Bolivar	Polk	1,071	32	40.4	+6.5	72	22	9	15	32	2.23	+0.29	1.14	7.1	4	15	2	14	ne.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	42.3ᵇ	+5.9	69	21	6	15	46	2.12	−0.18	0.60	6.0	6	11ᶜ	1ᶜ	16ᶜ	w.	H. E. Dean.
Eldon	Miller	934	22	38.4	+6.9	69	6	7	15	41	1.53	−0.12	0.62	7.0	5	7	12	12	s.	E. H. Shepherd.
Farmington	St Francois	918	24	38.4	+5.9	67	21	11	15	26	2.30	−0.12	0.55	3.0	9	11	7	13	ne.	Robert Forsyth.
Gano ‡‡	Dent	1,250	20	38.5	+4.5	68	6	10	15	32	2.31	−0.72	0.57	3.8	9	12	4	15	s.	A. C. Leach.
Goodland	Iron	1,000	28	39.3	+6.8	70	21	10	15	36	2.52	−0.50	1.05	3.0	6	15	3	13	s.	F. M. Adams.
Hollister	Taney	735	18	42.9	+6.9	70	4†	8	10	46	2.02	−0.74	1.10	3.0	4	13	0	18	se.	W. P. Chapmann.
Houston	Texas	1,280	29	....	.....	70	21	.	..	..	2.80	+0.17	0.84	3.0	7	7	11	13	sw.	Walter T. Beard.
Koshkonong	Oregon	958	20	42.8	+6.4	69	7†	15	15	30	1.97	−1.67	0.49	4.5	8	8	7	16	sw.	R. M. Hitt.
Lebanon	Laclede	1,265	34	37.6	+4.5	72	21	6	15	38	3.86	+1.30	1.02	4.5	9	12	10	9	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	39.8	+6.7	74	21	10	15	34	1.93	+0.19	1.02	8.0	4	15	4	12	sw.	C. S. Crow.
Mountain Grove	Wright	1,463	25	38.2	+5.0	68	21	10	15	33	2.30	−0.70	0.65	4.5	7	5	5	21	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	41.1	+6.0	70	21	6	15	42	2.04	−0.53	0.55	5.0	6	15	2	14	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	40.3	+9.3	70	21	10	15	29	1.66	−0.88	0.60	3.2	4	15	6	10	s	Prof. Elmo G. Harris.
Seymour	Webster	1,642	16	40.0	+5.7	68	21	10	15	39	1.60	−1.10	1.00	3.0	3	8	5	18	e.	Ira H. Hailey.
Springfield	Greene	1,350	42	39.8	+8.5	68	21	15	15	30	1.36	−1.30	0.60	4.6	6	9	9	13	s.	U. S. Weather Bureau
Section means and	extremes	....	..	39.9	+6.3	74	21	6	15	46	2.29	−0.35	1.45	4.4	6	11	5	15	s.	
Southwest Plain.																				
Amoret	Bates	831	15	37.0	+6.8	64	20†	5	15	32	1.81	+0.44	1.10	7.0	3	10	9	12	e.	Darby Fruit Farm
Appleton City	St. Clair	853	29	38.5	+7.3	65	21	8	15	31	2.64	+0.72	1.00	7.2	7	7	11	13	sw	W. G. Bigelow.
Clinton	Henry	765	31	38.5	+7.2	67	6	11	14†	33	2.20	+0.16	1.00	9.5	3	6	8	17	ne.	A. F. Derwent, M. D.
Harrisonville	Cass	904	46	35.8	+8.7	63	21	10	15	35	1.47	−0.18	0.42	6.2	8	8	4	19	s.	John H. Patterson.
Lamar	Barton	980	40	39.1	+6.8	70	21	4	15	46	3.28	+1.55	1.00	10.0	8	12	3	16	s.	Joe W. Springer.
Lamonte	Pettis	867	35	35.2	+6.7	61	7†	8	15	30	1.98	+0.11	0.65	6.0	5	5	19	7	s.	George B. Wagner.
Marshall	Saline	779	32	36.4ª	+9.0	62	6	7	15†	30	1.86	−0.05	0.70	6.5	6	11	8	12	sw.	Dr. W. H. Black
Nevada	Vernon	862	30	39.6	+8.1	66	21	11	15	31	2.08	+0.01	1.03	8.5	5	9	7	15	s.	George A. Kaupp.
Warrensburg	Johnson	878	43	36.5ᶜ	+7.8	64	21	10	15	36	2.52	+0.70	0.80	6.0	5	..	..	..	..	S. I. Major.
Warsaw	Benton	687	26	39.8	+7.0	66	21	9	15	36	2.62	+0.13	1.00	10.0	6	6	16	9	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	37.7	+7.5	70	21	4	15	46	2.25	+0.36	1.10	7.7	6	8	10	13	s.	
Northwest Plateau.																				
Avalon	Livingston	730	21	35.2	+6.6	60	6†	4	17	25	1.93	−0.06	0.75	9.0	6	11	12	8	sw.	F. G. Ashbaugh.
Bethany	Harrison	916	30	31.6	+6.9	60	20	1	27	33	1.25	−0.20	0.60	11.0	3	9	8	14	nw.	M. H. Moulton.
Chillicothe	Livingston	779	13	35.7	+5.7	62	20	5	17	34	1.23	−0.85	0.37	7.0	5	18	4	9	nw.	G. L. Fellinger.
Conception	Nodaway	980	37	32.6	+7.8	60	20	3	17	28	0.86	−0.19	0.43	7.0	5	9	9	12	n.	Fr. Adelhelm Hess.
Edgerton	Platte	856	9	34.4ᵇ	.....	63	20	8	8†	38	1.39	−0.09	0.42	4.5	5	17	4	10	s.	Fred L. Stiff.
Grant City	Worth	1,134	30	32.4	+7.8	59	21	4	17	33	1.43	+0.41	0.60	9.5	5	20	1	10	nw.	J. E. Engle.
Kansas City	Jackson	963	32	37.3	+11.1	63	6	11	17	27	1.48	+0.35	0.44	4.8	6	8	11	12	sw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	34	34.3	+7.8	59	6†	6	17†	49	0.51	−0.92	0.36	5.0	3	13	2	16	nw.	Linn Terry.
Lexington	Lafayette	688	39	35.8	+8.5	62	6†	10	17	30	2.43	+0.81	0.83	4.5	8	12	0	19	s.	J. W. Keithley
Liberty	Clay	859	31	36.4	+7.6	62	20†	10	15†	29	1.63	+0.24	0.47	4.6	7	13	7	11	sw.	James H. Harris.
Maryville	Nodaway	1,036	27	30.0	+7.8	60	20	3	17†	47	0.83	−0.36	0.30	6.0	7	19	0	12	n.	J. R. Brink.
Oregon	Holt	1,018	66	32.8	+9.0	61	20	6	17	29	0.87	−0.61	0.47	4.5	3	11	7	13	nw.	Tom Curry.
St. Joseph	Buchanan	967	49	34.4	+7.6	61	20	8	17	28	0.72	−0.39	0.25	3.5	5	6	13	12	sw.	U. S. Weather Bureau
Tarkio	Atchison	916	28	32.0	+10.0	59	20	6	17	33	0.72	−0.14	0.38	8.0	2	15	3	13	nw.	John F. Frazier
Trenton	Grundy	822	26	32.8	+5.8	57	20	5	17	26	1.38	−0.18	0.64	10.0	4	11	9	11	s.	W. H. Estes.
Section means and	extremes	.....	..	33.8	+7.9	63	6†	1	27	47	1.28	−0.09	0.83	6.5	5	12	6	13	nw.	
State means and	extremes	.....	..	37.1	+7.2	74	21	−1	17	47	1.88	−0.38	1.45	5.4	6	10	7	14	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record. but all complete reports are used in determining section or division means.

Reference letters, ª, ᵇ, ᶜ, appearing in the table indicate number of days missing: for example, ᵇ represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean. Anderson: of Gano. Salem, R. F. D. No. 5.

Daily Precipitation for January, 1921.

Stations.	Watersheds.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville ‡‖	Missouri							.02						.12	.52								.22	.03		.39	.03			.03	.53		1.89
Brunswick ‡	Grand													.04	.22								.45			.07	.20			.08	.45		1.51
Clifton Hill	Chariton													.50	T.							.06	.52		.07	.35	.11			.70			2.31
Columbia***	Missouri							.01				T.		.64	T.							.03	.21		.19	.07				.39	T.	T.	1.54
Downing	Mississippi													.40	.02							.08	.50		.02	.16	.03			.12	T.		1.33
Fayette ‖	Missouri													.53												.12				.98			1.63
Fulton	do	.01						.04						.37								.10	.06		.05	.27	.01			.42	.02		1.35
Gorin	Mississippi													.37								.93				.04				.07			1.41
Hannibal***	do							.02				T.		.32	.02							.17	.11		.05	.26				.51	.02		1.48
Hermann ‡	Missouri							T.							.30								.53			.07	.02			.02	.43		1.37
Jefferson City ‖	do														.37	.25							.07			.27	T.			.10	.42		1.48
Kirksville	Mississippi													* *	.30							.24	.67		.07					.15			1.43
Louisiana	do	.15						.15				T.		.16	.16							.10	.31			.11	.02			.34	.15		1.65
Macon ‡‖	Chariton											T			.31	T.			T.	T.			.52			.11	T.	T.	T.	.08	.48	T.	1.50
Mexico ‡‖	Mississippi							.02	.02						.63	.02							.42	.05		.18	.20			.05	.50		2.09
Pacific ‖	Meramec	.23							.01						.20								.11	.03		.10	.05			.04	.18		0.95
Palmyra ‖	Mississippi											T.			.36	.10						.04	.21			T.	.26		.59	.04	.06		1.66
St. Catharine	Grand											T.		.40	T.							.07	.60		.04	.05	.10			.04			1.30
St. Charles	Missouri	.20												.30									.20			T.				.42			1.12
St. Louis (1)***	Mississippi	.31						.01				T.		.12	.03							T.	.13		.12	.10	T.			.28	T.	T.	1.10
St. Louis (2)	do	.24						.02				T.		.05	.04							T.	.09		.19	.01	T.			.31			0.95
Shelbina	do													.34									.70		T.						.85		1.89
Steffenville	do	T.						T.				T.		.34	.07							.50	.40	45	.05	.15				.48	.05		2.49
Union ‡‖	Meramec	.60													.27								.14	.02		.08	.07			.06	.22		1.46
Unionville	Chariton													.45	T.								.40	T.	.20	T.	.06						1.11
Valley Park ‖	Meramec	.06						T.							.20								.07	T.	.02	.04	.02			.31	.20		0.92
Warrenton ‡‖	Mississippi							.01	T.						.30	T.							.33		T	.15	.07			.09	.55	T.	1.50
Keokuk, Iowa***	do	T.												.51	T.							.30	.52		.12	.16				.31	T.		1.92
Southeast Lowlands.																																	
Cape Girardeau ‡‖	Mississippi		.23						.15			.09	.04		.20	.03						.02			.08	.50	.04			.45	.31		2.14
Caruthersville	do	.30						T	.43			T.	T.	.65	T.									T.	T.	.25	T.			.20	.15		1.98
Doniphan	Black	.15						T.				.14		1.26									T.	T.	.15	.30	T.			15	.65	T.	2.80
Jackson	Mississippi	.31							.17			.13		.24	T.							.04		.06	.04	.63	T			.73	.49		2.84
Marble Hill	do	.24						.03		.12		.18		.12											.35	.75				1.25	.50		3.54
New Madrid ‡‖	do		.45						.45			.15	.08	T.	.35									.10	.05	.45	.15	.03		.26	.25		2.77
Parma	do	.20							.27			.20		.24												.47				.32	.17		1.87
Patton (near)	do													.22											.25	.70				.98			2.15
Poplar Bluff ‖	Black	T.	1.05						T.						.03	T.					T.			T.		.50	T.						1.58
Vanduser	Mississippi		.26					.10				.11	.09	.20									.10	.05	.13	.43	.07		.40	.10			2.04
Cairo, Ill.***	do	.43						.21				.10	.03	.28	T.						T.		.10	.04	.01	.21	.18			.68	T.	T.	2 27
Ozark Plateau.																																	
Arcadia ‖	St. Francis		.28									.04	T.		.03									.18	.03	.51	.04			.63	.83		2.57
Birchtree	Black											.17		.35										.71	.48	.90	T.			1.45			4.06
Bolivar	Osage											T.		.78	T.								.18	T.	1.14	T.	T.			.13	T.	T.	2.23
Dean	Neosho													.60									.42	.51	.47					.05	.07		2.12
Eldon	Osage													.62								T.	.22		.28	.06				.35	T		1.53
Farmington	St. Francis	.25						T.				.12		.30	T.								.15	.02	.16	.31	T.			.55	.44		2.30
Gano	Meramec	.12										.1		.33	T.								12	T.	.56	.36	.03			.57	.12		2.31
Goodland	Black	.30												.24									.35		.40	.18					1.05		2.52
Hollister	White													.27										.30	1.10				.35				2.02
Houston	Gasconade	.15										.65		.03						T.			.05		.84	.18	T.			.90			2.80
Koshkonong	Black	.40										.15		.40	T.				T.				T.	.06	.20	.22	.05			.49			1.97
Lebanon ‡‖	Osage											T.		.21	.22								.05	.07	.20	1.02	1.00		1.00		.09		3.86
Lockwood	do													.60									.08	.23	1.02		T.			T.			1 93
Mountain Grove ‡‖	White	.11												.05	.36								T.	.06	.42	.65	T.			.65			2.30
Neosho	Neosho													.45								T.	.43	.46	.55	T.	T.			.10	05	T.	2.04
Rolla ‖	Meramec											T.		.30	T.								.26		.60	T.	T.			.50	T.		1.66
Seymour	White	T.												.33											1.00	T.				.27			1.60
Springfield***	do											T.		.34	T.						T.		.23	.16	.44	.03	T.			.16	T	T.	1.36
Steelville ‡‖	Meramec	.25												.06	.17								.25	.07	.06	.36	.03			.27	.15		1.67
Tuscumbia ‖	Osage													T.	.46								.34	T.	T.	.43	.03			T.	.08		1.34
Southwest Plain.																																	
Amoret	Osage													.29								T.	T.		1.10	T.	T.			.42			1.81
Appleton City	do							.01				T.		.68									.20		1.00	.02	.05			* *	.68	T.	2.64
Clinton	do													.90											1.00					.30			2.20
Harrisonville ‖	do													.07	.09								.20		.26	.35	.03			.05	.42		1.47
Lamar ‡	Neosho													.80	.20						1.50		20	T.	.75	.21				.09	.03		3.28
Lamonte	Missouri							.03							.52						.20	.58								.65			1.98
Marshall	do													.60								T.	.06		.05	.40	.05			.70			1.86
Nevada	Osage													.25									.50	T.	1.03	T.	.03			.27	T.		2.08
Osceola ‖	do														.68								.33		.37					.05	.48		1.91
Warrensburg	Missouri													.52									.60	.40	.20				.80				2.52
Warsaw	Osage							.11						1.00								.15	.35		.63	T.	T.			.38	T.		2.62
Waverly ‡	Missouri													.10	.41							T.	.59			.27	.14			.08	1.01		2.60
Northwest Plateau.																																	
Avalon	Grand													.48					.25		.50	.25				.30			.15				1.93
Bethany	do													.50	T.							T.			.15	.60							1.25
Chillicothe	do													.32								.25	.37			.10		.19					1.23
Conception	Missouri													.19	.11					T.		.06	T.		.07	.43							0.86
Edgerton	Grand													.31	T							.20	.20		.42	.26							1.39
Grant City	do													.12	.22								.25		.24	.60							1.43
Kansas City***	Missouri													.44								.27	.10		.30	.14				.23	T.	T.	1.48
Kidder ‖	Grand														36	.04												.11					0.51
Lexington ‖	Missouri													.02	.38							.25	.53			.24	.15			03	.83		2.43
Liberty	do													.33								.24	.47		28	.15	.05			.11			1.63
Maryville ‡	do														.30					.05	.02		.02			.09	.30				.05		0.83
Oregon	do													.25								.15				.47					T.		0.87
St. Joseph***	do	T.									T.			.25	T.							.11			.24	.11				.01	T.	T.	0.72
Tarkio	do													.34												.38							0.72
Trenton	Grand													.22	T.							.64			.06	.46					T.	T	1.38

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for January, 1921.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	46	53	57	51	51	63	51	49	44	46	43	43	27	32	43	42	23	38	59	64	53	54	52	40	33	32	35	52	47	34	31	44.8
	Minimum	31	27	29	30	27	24	35	22	31	26	35	24	20	10	8	12	8	8	23	38	53	48	26	27	32	24	17	20	38	34	29	26.3
Columbia	Maximum	52	54	59	51	48	63	57	44	46	48	39	30	26	30	37	46	20	33	61	63	63	59	49	42	37	31	37	53	51	39	32	45.2
	Minimum	33	31	35	35	30	38	34	25	24	28	26	16	20	12	8	20	7	19	33	51	56	39	26	37	26	22	20	32	39	31	30	28.5
Fayette§§	Maximum	50	54	48	48	63	52	44	46	44	36	27	23	28	32	40	27	30	56	62	59	54	47	39	33	30	32	51	43	37	28	32	41.8
	Minimum	30	27	28	32	28	32	33	23	18	22	27	14	10	10	7	18	5	12	30	46	54	34	24	33	22	21	20	28	37	27	27	25.1
Hannibal	Maximum	53	51	53	51	48	60	55	46	44	47	38	28	25	31	32	42	19	32	56	62	61	58	51	37	31	30	36	49	43	36	33	43.2
	Minimum	34	31	36	37	33	35	36	28	23	29	25	16	21	16	7	19	5	17	32	50	55	37	27	31	23	17	15	33	35	32	30	27.9
Jefferson City §§	Maximum	48	55	58	55	49	62	58	43	45	48	35	30	26	33	40	47	27	40	59	64	68	57	49	42	35	30	37	55	58	36	33	45.9
	Minimum	35	32	35	35	32	33	39	28	26	28	28	19	17	21	10	32	12	12	25	38	52	53	31	32	33	23	20	22	32	35	29	29.0
Kirksville	Maximum	45	47	53	51	48	59	52	46	44	42	41	29	23	29	34	36	22	28	56	60	56	53	50	46	33	32	36	49	44	39	31	42.4
	Minimum	31	18	17	29	28	32	32	24	19	19	18	10	10	16	15	12	0	6	27	35	21	37	28	29	25	20	19	26	31	28	27	22.2
Louisiana	Maximum	52	54	52	55	50	50	60	45	48	48	48	40	35	32	31	40	34	30	51	58	64	63	66	50	40	30	34	50	52	44	35	46.5
	Minimum	38	30	32	36	32	28	43	17	22	16	19	14	20	16	5	22	6	14	28	40	55	48	48	38	27	25	19	32	33	34	30	28.0
Macon §§	Maximum	46	50	55	51	48	63	50	48	46	44	40	30	25	30	40	38	20	39	58	63	60	55	51	37	31	35	35	51	41	33	30	43.3
	Minimum	31	27	33	32	27	27	35	24	20	26	22	12	12	21	7	10	4	4	20	38	50	48	27	32	29	21	19	23	30	31	28	24.8
Mexico §§	Maximum	49	53	56	52	50	62	45	42	49	52	a	28	25	35	43	43	24	40	58	63	61	57	52	42	35	31	38	51	48	37	34	45.2[a]
	Minimum	33	30	31	35	30	30	38	26	21	29	28	15	20	14	9	9	6	7	22	38	50	53	27	33	31	22	18	21	33	33	30	26.6
St. Catharine	Maximum	48	49	53	49	50	58	55	52	47	43	42	35	26	30	35	39	24	29	53	60	58	58	52	46	37	31	32	47	48	43	32	43.9
	Minimum	29	25	27	28	25	32	33	22	17	22	21	12	16	14	5	21	1	7	25	43	51	38	25	28	29	19	15	23	33	30	26	23.9
St. Louis (1)	Maximum	57	55	59	58	49	57	32	45	42	49	43	33	27	33	32	46	25	35	54	60	67	60	49	46	34	29	40	51	56	42	35	46.1
	Minimum	38	35	39	45	35	36	38	33	31	32	33	21	23	23	16	25	12	20	34	50	53	45	35	34	28	24	25	32	40	35	30	32.3
Unionville	Maximum	46	45	50	52	47	56	50	45	43	38	36	35	25	28	30	37	22	28	53	57	55	46	50	43	32	32	35	46	42	38	31	41.1
	Minimum	32	25	28	30	28	32	30	25	18	24	15	8	12	15	5	20	0	5	18	45	40	34	26	28	22	18	16	24	30	28	22	22.7
Warrenton §§	Maximum	50	54	58	54	50	60	56	45	45	49	36	31	27	31	44	42	24	39	57	61	63	55	50	40	31	31	40	54	57	35	32	45.2
	Minimum	37	30	34	33	32	32	38	28	25	25	27	16	15	21	9	11	9	10	23	37	46	51	30	31	30	22	19	22	31	33	30	27.0
Southeast Lowlands.																																	
Caruthersville	Maximum	67	64	65	68	57	65	63	62	54	54	54	42	35	40	40	62	49	40	64	58	70	71	61	52	47	42	50	54	56	54	48	55.1
	Minimum	49	31	33	45	39	33	52	37	35	25	36	30	27	31	23	32	27	29	36	42	48	41	50	44	40	30	26	29	42	43	36	36.2
Doniphan	Maximum	64	53	56	63	55	60	66	51	49	49	45	42	32	38	38	57	40	33	59	61	66	61	62	52	45	40	42	50	56	42	41	50.6
	Minimum	48	27	28	30	30	25	50	34	35	20	36	27	23	24	17	18	24	25	31	38	49	43	40	40	38	29	40	22	43	40	33	32.5
Jackson	Maximum	63	66	59	59	53	56	61	59	48	49	43	38	28	39	35	50	39	35	57	55	65	62	57	50	45	35	42	51	52	54	41	49.9
	Minimum	46	21	25	30	30	24	48	32	31	20	22	25	24	21	14	25	21	24	33	40	48	46	37	41	33	25	21	33	39	39	39	30.9
Poplar Bluff§§	Maximum	49	35	36	39	38	36	32	34	34	36	34	32	30	34	39	40	41	39	36	24	35	42	45	60	50	44	45	44	50	44	a	[a]39.2
	Minimum	29	30	29	24	24	23	21	20	21	21	21	20	18	12	12	18	20	21	20	18	21	23	23	21	20	12	21	22	20	23	21	20.9
Cairo, Ill.	Maximum	65	53	58	61	51	56	62	47	45	49	42	31	34	36	33	51	32	37	57	58	67	62	57	46	46	31	42	50	56	53	38	48.7
	Minimum	41	35	37	46	38	34	43	35	34	28	34	26	26	26	21	32	23	26	36	41	50	45	41	42	31	26	23	32	43	36	35	34.4
Ozark Plateau.																																	
Arcadia §§	Maximum	62	55	58	62	54	58	62	50	48	48	49	31	28	38	38	51	31	34	57	53	68	58	56	42	35	27	42	52	52	40	34	47.5
	Minimum	41	30	29	30	33	26	36	30	29	18	19	21	21	21	12	12	20	19	24	31	45	48	37	36	33	25	17	17	31	38	31	27.8
Birchtree	Maximum	59	55	59	59	56	59	62	55	48	49	48	40	29	35	39	51	40	31	58	58	69	62	59	47	40	35	42	54	59	54	36	49.9
	Minimum	43	27	29	33	33	33	50	28	34	22	32	21	20	18	10	30	19	22	30	44	49	44	44	35	35	21	18	29	37	33	29	30.7
Eldon	Maximum	52	59	56	58	55	69	55	58	55	53	47	38	29	33	47	45	30	33	63	62	68	60	51	44	40	32	4	67	62	51	36	49.9
	Minimum	30	25	28	38	25	30	29	29	27	22	24	14	17	16	7	23	9	17	29	42	52	43	29	35	27	20	15	26	42	36	26	26.8
Farmington	Maximum	52	55	54	55	52	56	60	46	42	42	39	33	26	42	37	41	34	35	54	56	67	59	55	46	40	32	43	50	50	49	34	46.3
	Minimum	31	32	44	37	32	32	46	28	32	21	33	20	22	20	11	27	16	24	30	42	46	48	32	39	32	22	18	28	38	34	30	30.6
Hollister	Maximum	65	60	61	70	56	69	60	50	55	50	45	40	50	56	50	55	55	36	66	66	70	69	62	60	50	50	47	62	62	50	48	56.3
	Minimum	40	25	20	25	25	23	40	30	20	8	30	23	20	22	12	30	22	26	30	44	55	45	48	45	40	28	22	22	34	32	30	29.5
Koshkonong	Maximum	60	58	62	65	55	62	69	59	50	49	44	40	30	36	41	55	42	32	61	59	69	65	59	48	44	41	46	54	62	57	36	51.9
	Minimum	41	31	35	48	35	35	51	30	34	26	35	24	22	24	15	32	22	25	31	43	50	45	47	40	39	27	20	28	41	35	30	33.7
Lebanon §§	Maximum	60	57	58	62	52	63	65	43	45	53	43	30	28	33	40	43	28	40	58	65	72	58	50	41	41	28	42	69	64	34	32	48.0
	Minimum	40	28	36	32	32	27	38	22	22	24	28	16	16	20	6	8	17	17	20	36	50	51	36	38	37	23	18	18	32	32	27	27.3
Mountain Grove §§	Maximum	56	54	53	64	57	54	64	51	49	43	39	29	38	34	36	45	35	34	54	61	68	61	52	41	44	27	41	53	61	35	33	47.3
	Minimum	42	29	34	36	32	33	41	24	26	25	27	18	20	22	10	12	18	23	28	38	45	48	42	38	35	23	17	22	38	33	27	29.2
Neosho	Maximum	34	49	61	50	59	65	64	48	48	45	45	36	32	36	48	48	40	41	61	67	70	64	59	52	51	35	45	58	66	60	32	50.6
	Minimum	30	29	28	24	23	35	40	25	21	21	34	21	22	24	6	36	23	31	34	51	57	52	48	43	33	25	24	30	47	31	28	31.6
Rolla	Maximum	59	56	61	60	57	63	66	55	48	49	35	34	29	31	39	47	34	32	58	60	70	65	57	47	41	35	41	58	60	53	31	49.4
	Minimum	40	29	34	37	30	36	38	27	32	26	32	18	21	24	10	34	16	21	32	49	52	51	32	37	34	24	19	32	42	30	29	31.2
Springfield	Maximum	54	54	57	55	54	64	65	46	45	45	40	31	28	31	43	47	32	33	60	63	68	58	51	42	44	32	42	55	62	42	32	47.6
	Minimum	34	32	36	41	35	40	35	29	32	28	28	22	21	20	15	26	20	25	33	48	54	50	20	40	32	24	22	33	42	22	27	32.1
Southwest Plain.																																	
Amoret	Maximum	55	52	57	52	52	62	60	48	48	45	38	35	28	35	37	44	32	31	59	64	64	62	50	46	43	32	35	52	51	44	31	46.6
	Minimum	28	27	26	30	27	33	35	22	22	22	26	17	20	14	5	28	14	16	31	43	54	46	32	38	32	22	21	28	41	27	27	27.5
Appleton City	Maximum	58	53	57	52	53	62	58	46	49	45	42	34	29	35	39	42	30	33	60	64	65	61	50	47	45	35	35	56	54	47	31	47.3
	Minimum	31	28	29	32	28	35	37	28	24	26	29	20	22	14	8	30	16	19	33	47	45	50	34	41	34	25	22	31	43	30	29	29.7
Clinton	Maximum	52	54	50	53	52	67	63	48	49	48	42	34	28	32	41	43	21	33	45	64	65	63	50	47	43	38	37	57	57	50	46	47.6
	Minimum	30	29	31	33	29	31	37	24	25	25	25	18	22	11	11	31	15	18	25	40	51	48	33	40	32	25	25	35	42	38	29	29.4
Harrisonville §§	Maximum	46	54	54	51	50	62	50	46	48	45	41	32	26	33	42	41	24	40	58	61	63	55	51	41	40	32	33	53	47	31	30	44.5
	Minimum	30	27	28	29	28	29	32	26	21	26	21	24	24	16	10	13	15	13	23	39	46	54	33	36	39	24	23	24	30	31	28	27.2
Lamar §§	Maximum	46	40	54	54	55	61	61	53	52	50	40	36	31	37	50	48	33	43	65	67	70	59	61	49	44	29	41	61	61	48	36	49.5
	Minimum	28	27	29	30	25	26	39	25	23	24	28	21	20	18	4	36	18	22	34	40	50	51	40	39	40	19	20	24	33	30	27	28.7
Lamonte	Maximum	52	47	57	54	48	51	61	45	50	47	43	31	26	31	38	43	39	31	60	50	61	51	38	33	33	26	24	41	40	36	40	42.9
	Minimum	30	35	32	33	30	31	37	26	25	29	28	17	22	18	8	28	12	11	30	47	49	37	28	23	20	20	22	32	35	30	28	27.5
Marshall	Maximum	52	50	55	52	48	62	60	45	45	46	42	35	26	31	35	42	37	31	59	60	61	60	47	46	38	32	36	50	48	45	31	45.4
	Minimum	31	28	31	30	29	33	36	26	22	25	25	16	21	18	7	27	7	12	31	a	55	46	29	38	32	23	21	29	37	31	29	27.5[a]
Nevada	Maximum	55	53	58	55	55	65	63	45	49	46	40	35	32	35	42	43	31	37	62	65	66	62	50	47	47	36	39	58	59	41	33	48.5
	Minimum	31	30	32	32	27	38	38	25	23	29	29	20	22	19	11	30	18	22	35	46	56	49	38	41	34	25	23	32	40	30	29	30.8
Warrensburg	Maximum	45	51	55	52	51	52	49	a	b	46	37	c	29	32	43	42	24	41	60	61	64	56	50	46	30	d	34	50	49	32	e	[e]45.4
	Minimum	31	29	28	33	30	30	38	26	a	b	23	17	c	17	10	18	12	12	24	40	50	54	31	32	23	22	d	25	33	30	28	27.6[d]
Warsaw	Maximum	60	55	62	57	52	65	63	46	48	49	43	35	29	33	45	50	32	33	64	65	66	65	55	48	42	37	40	59	55	51	33	49.6
	Minimum	33	30	29	35	28	33	37	20	21	21	30	15	17	21	9	31	16	20	32	52	62	51	32	40	36	25	20	30	45	30	30	30.0
Northwest Plateau.																																	
Chillicothe	Maximum	53	55	52	52	50	60	58	47	48	49	40	36	28	31	35	45	25	31	56	62	60	56	50	43	38	33	32	48	50	53	55	46.2
	Minimum	30	32	25	30	33	26	34	23	20	18	19	13	20	11	6	19	5	11	28	45	54	41	25	35	26	15	13	24	35	31	33	25.2
Grant City	Maximum	54	40	47	50	47	53	55	49	43	45	41	40	30	29	33	42	27	24	51	51	59	46	50	52	35	35	32	38	45	45	28	42.5
	Minimum	31	25	32	29	26	33	33	22	20	23	13	7	16	19	6	20	4	8	21	22	42	34	25	25	27	8	12	28	33	25	26	22.4
Kansas City	Maximum	42	53	55	52	50	63	56	47	46	43	39	29	27	30	44	50	23	37	58	62	63	58	46	42	39	30	35	51	47	34	29	44.5
	Minimum	33	33	34	36	35	40	35	30	28	30	23	17	23	21	18	23	11	14	36	49	56	40	35	38	25	24	24	33	34	28	26	30.1
Kidder §§	Maximum	40	47	48	50	49	59	49	44	50	47	44	35	34	28	26	31	20	55	50	59	59	56	56	50	45	35	34	37	41	44	31	43.7
	Minimum	30	26	28	26	28	28	33	24	22	22	19	15	14	13	8	7	6	6	42	39	42	35	45	40	35	31	19	17	19	26	26	24.9
Lexington §§	Maximum	46	53	56	50	46	62	51	47	48	44	40	32	27	30	36	41	20	31	58	60	62	52	48	40	34	32	22	51	45	33	30	43.2
	Minimum	32	30	32	33	29	36	35	25	21	26	23	16	22	18	14	33	10	12	18	49	56	45	29	37	34	21	22	27	39	32	27	28.5
Maryville §§	Maximum	36	47	48	51	46	51	44	50	45	36	34	28	28	27	44	28	17	39	52	60	42	47	51	33	30	31	9	46	23	25	38	39.8
	Minimum	30	21	21	29	24	23	31	21	18	18	12	8	8	15	7	3	3	3	5	37	39	32	24	25	28	11	9	16	23	23	21	19.3
Oregon	Maximum	46	47	50	49	46	54	49	41	43	39	31	28	29	29	39	47	23	30	52	61	57	45	47	43	34	27	34	45	48	34	28	41.2
	Minimum	29	26	32	29	27	36	32	23	22	25	16	11	20	19	10	20	6	10	27	46	40	32	27	32	22	14	17	27	31	24	23	24.4
St. Joseph	Maximum	39	50	52	51	48	57	46	43	45	42	36	28	26	30	43	49	21	33	54	61	58	46	47	41	25	29	31	47	50	32	29	42.0
	Minimum	30	29	36	33	29	39	33	24	21	29	19	14	22	16	15	21	8	14	33	50	42	34	27	35	24	18	24	30	32	25	26	26.9
Trenton	Maximum	46	45	51	49	44	56	51	46	42	41	36	29	26	25	34	42	26	28	51	57	56	47	47	40	34	28	31	41	43	36	31	40.7
	Minimum	31	26	29	31	28	30	34	26	21	25	16	11	20	15	11	22	5	10	27	43	45	38	27	32	26	13	13	23	32	30	28	24.8

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXV. COLUMBIA, MO., FEBRUARY, 1921. No. 2.

GENERAL SUMMARY.

Considering the weather elements together (temperature, wind, humidity, sunshine, and precipitation), February, 1921, in Missouri, was, perhaps, the most pleasant winter month that has occurred in about thirty years. The entire winter has been exceptionally mild. And in this respect it has its close counterpart in the winter of 1889-90.

The mean monthly temperature for the State as a whole, 40.1°, has never been equaled, although it has had some close competitors, namely, in 1909, 1911, and 1915. The prevailing dry atmosphere and absence of high winds made the weather particularly pleasant from the physiological side. The human body is very sensitive to damp, windy weather.

While there was a marked deficiency in precipitation over the greater part of the State, the moisture that was received was sufficient for present needs. February in other years since 1867, as compared with the present, has been drier seven times, namely, 1868, 1870, 1895, 1904, 1917, and 1920. There are exceptions to all general rules, but as a general thing a relatively dry winter month is a cold winter month and, a mild winter month is a wet one.

The soil was in good condition, and much plowing was done; at the close of the month probably a third of the oat crop had been sown. Winter wheat was in fine condition.

Because of the unseasonably mild weather fruit buds had been forced out about a month ahead of the seasonal stage. This constitutes a precarious condition for these crops.

TEMPERATURE.

The monthly mean temperature, 65 stations reporting, was 40.1°. This is about 9.1° above the normal and the greatest plus departure since the beginning of records in 1888. The previous mildest February was 1915, with a mean temperature of 39.4°. The distribution of warmth during the present month was like that of 1915, that is, the northern half of the State was milder than the southern half. Both of these Februarys were only 3° or 4° colder than the normal condition of March.

No zero temperatures occurred; and only four stations reported readings lower than 10°, namely, Neosho, Dean, Unionville, and Edgerton, quite widely separated places. Seven stations reported day temperatures of 80° or higher, the maximum being 86°, at Bolivar on the 16th. The average number of days with minimum of 32° or lower, was 19.

PRECIPITATION.

The average precipitation, 83 stations reporting, was 0.94 inches. The departure from the normal for 68 stations having 10 or more years' record was minus 1.33 inches. Except along the immediate southern border, where there was a slight excess, the deficiency was quite marked and uniformly distributed, the total monthly fall being less than one inch. Nearly all precipitation fell during two relatively short periods, embraced in the first and third decades.

A heavy snow fell over southern sections on the 19th, and 20th, the deepest, between 9 and 15 inches, occurring in the southeastern lowlands; it soon melted and much melted as it fell. Over the remainder of the State, particularly north of the Ozarks, there practically was no snow cover.

WIND.

The prevailing winds were from the southwest. The average wind movement, based upon 8 stations equipped with anemometers, was 6,979, miles, 10.4 miles an hour, or about normal. There were no damaging winds.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, based upon the records of 6 well distributed stations equipped with sunshine recorders, was 182. This is about 60 per cent of the possible and about 6 per cent more than normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense.—4th, 5th, 7th, and 8th.

Hail.—At Springfield, on the 7th.

Halos, solar.—3rd, 4th, 6th, 12th, 17th, 18th, 20th, 21st, 24th, and 25th. Lunar.—17th, 18th, 19th, 20th, 21st, and 22nd.

Thunderstorms, local.—4th, 5th, 7th, and 26th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
								Max. velocity.		
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Miles per hour.	Direction.	Date.
Columbia	30.06	80	..	178	59	6,048	9.0	39	sw.	16
Hannibal	30.06	76	..	...	..	6,305	9.4	37	sw.	16
Kansas City	30.06	74	55	205	68	8,453	12.6	47	nw.	11
St. Joseph	30.04	78	55	182	61	6,271	9.3	42	w.	16
St. Louis	30.06	76	61	166	55	8,593	12.8	42	s.	22
Springfield	30.07	81	58	186	61	7,426	11.1	39	se.	21
Cairo, Ill	30.08	82	66	...	..	7,104	10.6	45	ne.	19
Keokuk, Iowa	30.07	74	61	175	58	5,629	8.4	35	sw.	16

COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	33.0	+ 2.0	73	−11	2.04	−0.28	......	......	7	......	......	......
1889	29.3	− 1.7	73	− 9	2.57	+0.25		......	7	......	......	......
1890	35.5	+ 4.5	81	− 7	2.21	−0.08	......	......	7	......	......	......
1891	32.7	+ 1.7	76	− 8	2.28	−0.04	......	2.4	6	......	......	......
1892	37.7	+ 6.7	71	2	4.15	+1.83	......		9	7	6	16
1893	27.9	− 3.1	65	−20	1.98	−0.34	2.30	4.6	6	10	7	11
1894	30.8	− 0.2	72	−12	2.52	+0.20	2.60	11.2	6	10	8	10
1895	23.6	− 7.4	77	−26	0.55	−1.77	1.10	3.3	5	10	10	8
1896	35.6	+ 4.6	81	−10	1.61	−0.71	2.20	4.1	5	12	8	4
1897	34.8	+ 3.8	74	−15	2.30	−0.02	3.60	8.2	7	7	7	19
1898	35.4	+ 4.4	78	− 9	1.62	−0.70	2.90	0.8	5	13	6	9
1899	20.4	−10.6	72	−32	2.17	−0.15	4.30	5.3	6	12	8	8
1900	26.2	− 4.8	70	−16	3.92	+1.60	2.85	16.6	10	10	6	12
1901	28.1	− 2.9	76	−19	1.63	0.69	2.36	7.6	6	13	7	8
1902	24.0	− 7.0	72	−17	1.50	−0.82	2.35	5.8	5	11	8	9
1903	29.8	− 1.2	74	−25	2.92	+0.60	2.65	5.3	7	11	6	11
1904	30.0	− 1.0	82	−18	0.91	−1.41	1.46	1.5	5	11	8	10
1905	21.5	− 9.5	69	−40	1.64	−0.68	1.20	13.2	8	11	6	11
1906	33.7	+ 2.7	73	−13	2.28	−0.04	2.40	4.1	7	15	6	7
1907	34.8	3.8	77	−15	1.65	−0.67	3.72	4.5	6	12	5	11
1908	35.6	+ 4.6	78	− 7	4.32	+2.00	4.28	4.1	9	13	6	10
1909	38.8	+ 7.8	71	− 4	3.38	+1.06	2.50	3.1	9	13	5	10
1910	28.3	− 2.7	72	−24	1.98	−0.34	3.00	7.7	6	12	6	10
1911	38.1	+ 7.1	87	0	3.64	+1.32	2.08	6.3	8	12	5	11
1912	28.3	− 2.7	72	−12	2.45	+0.13	3.20	11.9	6	10	7	12
1913	29.8	− 1.7	78	− 9	2.21	−0.18	4.78	8.5	7	12	5	11
1914	28.3	− 3.2	75	−11	2.71	−0.42	2.80	14.0	7	12	6	10
1915	39.4	+ 8.0	72	7	3.18	+0.81	2.05	4.1	8	9	5	14
1916	31.4	+ 0.2	78	−12	0.98	−1.48	2.70	5.0	5	13	6	10
1917	30.5	− 1.0	83	−22	0.41	−2.03	1.24	1.1	2	14	7	7
1918	34.9	+ 4.6	83	−25	1.11	−1.26	2.00	0.6	4	15	6	7
1919	35.3	+ 4.0	71	−10	1.98	−0.35	2.20	6.1	7	13	4	11
1920	34.5	+ 3.2	78	− 5	0.57	−1.68	1.41	1.2	4	11	6	12
1921	40.1	+ 9.1	86	5	0.94	−1.33	2.00	1.8	4	14	6	8

Climatological Data for February, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip. .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	38.4	+ 9.9	82	15	17	20	48	0.60	−1.41	0.30	0	3	17	0	11	nw.	O.K. Benecke.
Clifton Hill	Randolph	731	22	39.9	+12.6	76	15	17	18†	37	0.52	−1.44	0.30	0	3	15	8	5	.....	L. S. Harlan.
Columbia	Boone	748	31	40.2	+10.1	74	15	20	20	33	0.45	−1.68	0.21	T.	4	11	9	8	sw.	U. S. Weather Bureau.
Downing	Schuyler	878	11	37.4	......	75	15	12	18†	39	0.78	−0.67	0.36	T.	4	12	4	12	n.	E. E. St. Clair.
Fayette	Howard	661	38	38.9	+ 8.9	73	15	16	20	40	0.24	−1.84	0.12	0	3	..	..	..	..	L. W. Jacobs, jr.
Fulton	Callaway	818	29	40.4	+ 8.2	74	15	19	18	39	0.81	−1.29	0.66	0	6	14	8	6	sw.	Westminster College.
Gorin	Scotland	700	34	....	......	..	..	..	..	..	0.73	−0.89	0.48	T.	3	7	10	11	nw.	J. W. Pulliam.
Hannibal	Marion	534	37	38.9	+ 9.8	74	15	19	20	33	0.40	−1.20	0.12	T.	5	9	8	11	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	38	39.8	+ 9.0	74	15	20	20	35	0.88	−1.25	0.65	0	3	17	5	6	s.	Miss Emma Swift.
Kirksville	Adair	969	39	36.4	+11.5	73	15	13	18†	35	0.70	−1.23	0 40	T	3	17	4	7	nw.	Prof. J. S. Stokes.
Louisiana	Pike	469	40	40.4^{a}	+12.0	74	15	16	20	34	1.08	−1.39	0.47	0.5	5	19^{a}	3^{a}	5^{a}	w.	J. T. Farrell.
Macon	Macon	875	28	37.6	+ 9.5	76	15	15	20	40	0.68	−1.50	0.37	T.	3	15	5	8	e.	W. C. Brown.
Mexico	Audrain	800	43	39.0	+10.3	75	15	18	18†	42	0.50	−1.95	0.20	0.5	5	24	0	4	w.	Mrs. Abbie Snoddy.
Palmyra	Marion	652	22	37.0	+10.2	74	15	15	20†	39	0.61	−1.68	0.36	T.	3	14	4	10	sw.	W. B. Markell.
St. Catharine	Linn	800	12	37.0	......	71	15	13	18†	39	0.69	......	0.41	1.0	3	15	5	8	sw.	L. D. Baker.
St. Charles	St. Charles	456	43	42.8	+11.1	74	15	20	20	34	0.80	−2.10	0.38	T.	3	8	8	12	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	83	42.1	+ 7.6	73	15	23	20	33	1.08	−1.67	0.30	T.	7	10	9	9	s.	U. S. Weather Bureau.
St. Louis (2)	....do	578	9	41.2	+ 9.8	73	15	22	20	33	0.89	−1.27	0.34	0.1	7	10	4	14	nw.	St. Louis University.
Shelbina	Shelby	779	28	....	......	..	..	..	..	..	0.60	−1.59	0.30	0	2	..	..	..	.....	S. G. Parsons.
Steffenville	Lewis	650	28	39.2	+11.9	76	15	13	18	50	0.70	−1.35	0.30	T.	3	13	9	10	n.	Frank Hall.
Unionville	Putnam	1,062	28	35.4	+11.1	72	15	8	20	36	0.57	−1.43	0.30	3.0	3	10	8	8	n.	Geo. W. Davis.
Warrenton	Warren	816	31	39.6	+10.2	75	14	19	20	38	0.85	−1.66	0.50	T.	4	9	11	0	nw.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	49	36.7	+10.1	74	15	16	17	33	0.48	−1.14	0.24	3.2	4	7	9	12	n.	U. S. Weather Bureau.
Section means and	extremes	.....	..	39.0	+10.3	82	15	8	20	50	0.68	−1.44	0.66	0.4	4	13	6	9	nw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	47.4	+ 8.9	81	14	22	20	39	5.52	+1.63	2.00	9.0	7	14	2	12	e.	H. E. Averill.
Doniphan	Ripley	344	17	44.4	+ 6.5	80	18	14	20	53	2.58	−0.77	1.75	9.0	4	15	6	7	ne.	W. W. Martin.
Jackson	Cape Girardeau	428	31	42.4	+ 7.2	72	15	17	20	38	1.83	−1.14	0.65	6.5	6	8	9	11	s.	John J. Putz.
Marble Hill	Bollinger	470	27	43.0	+ 7.9	76	14	19	21	41	1.65	−1.68	0.70	6.0	4	15	5	8	s.	R. A. DeWitt.
Parma	New Madrid	281	..	....	.....	..	..	..	..	..	3.43	......	2.00	15.0	6	..	..	..	.....	J. E. Pearce.
Patton (near)	Bollinger	500	11	....	.....	..	..	..	..	..	1 62	−0.43	0.78	3.0	3	..	..	..	....	George F. Ellis.
Poplar Bluff	Butler	339	17	....	.....	..	..	..	..	..	0.94	−2.23	0.82	9.4	2	12	9	7	......	Miss Belle Kinne.
Vanduser	Scott	304	..	....	.....	..	..	..	..	..	2.71	......	1.25	11.0	6	..	..	..	.. ...	M. L. Armstrong.
Cairo, Ill.	Alexander, Ill	359	49	42.7	+5.1	73	14	22	20	29	3.72	+0.39	1.26	9.0	8	6	7	15	s.	U. S. Weather Bureau
Section means and	extremes	....	..	44.0	+7.1	81	14	14	20	53	2.88	−0.33	2.00	8.6	6	12	6	10	s.	
Ozark Plateau.																				
Arcadia	Iron	926	43	42.0	+ 8.5	78	13	15	20	44	1.12	−2.13	0.89	2.2	7	10^{a}	5^{a}	12^{a}	w.	Arcadia College.
Birchtree	Shannon	1,000	28	42.9^{a}	+ 8.3	78	14	15	20	43	2.03	−0.56	1.56	6.0	4	17	3	8	sw.	V. H. Kirkendall
Bolivar	Polk	1,071	32	38.3	+ 4.2	86	16	16	20	43	0.56	−1.78	0.30	T.	2	20	4	4	[illegible]	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	42.8^{a}	+ 8.4	77	13	5	20	45	1.29	−0.61	0.68	5.0	5	21	2	5	w.	H. E. Dean.
Eldon	Miller	934	22	40.9	+ 9.2	80	13†	13	19†	43	1.06	−1.17	0.80	0	4	13	5	10	nw.	E. H. Shepherd.
Farmington	St. Francois	918	24	41.2	+ 5.6	73	13†	15	20	35	1.21	−2.23	0.65	4.0	8	13	8	7	ne.	Robert Forsyth.
Gano ‡‡	Dent	1,250	20	41.4	+ 7.0	76	14	12	20	34	0.79	−1.66	0.21	2.0	5	14	3	11	sw.	A. C. Leach.
Goodland	Iron	1,000	28	42.8	+10.2	77	13†	14	20	49	1.02	−1.59	0.58	3.0	4	18	3	7	s.	F. M. Adams.
Hollister	Taney	735	18	42.3^{1}	+ 4.3	81	15	12	19	40	2.74	+0.51	1.05	6.0	4	20	0	8	sw.	W. P. Chapmann.
Houston	Texas	1,280	29	....	......	78	14	..	..	..	1.35	−0.96	0.50	5.5	6	17	2	9	sw.	Walter T. Beard.
Koshkonong	Oregon	958	20	45.2	+ 8.0	81	14	17	20	39	2.40	−0.49	1.60	6 0	5	16	2	10	sw.	R. M. Hitt.
Lebanon	Laclede	1,265	34	39.7	+ 5.9	74	14	15	16	47	0.60	−1.93	0.47	T.	3	9	11	8	w.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	44.4	+ 9.3	75	14	24	19†	33	0.55	−1.51	0.55	0	1	16	4	8	se.	C. S. Crow.
Mountain Grove	Wright	1,463	25	42.4^{a}	+ 8.7	78	14	15	21	36	1.55	−0.81	0.45	5.0	7	13	3	12	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	42.8	+ 6.4	76	13†	9	20	38	1.11	−1.33	0.61	4.0	3	20	3	5	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	43.7	+ 8.8	79	14	21	20	41	0.59	−1.78	0.43	0.2	3	17	5	6	w.	Prof. Elmo G. Harris.
Seymour	Webster	1,642	16	42.4	+10.0	75	14	13	20	34	0.77	−1.68	0.48	1.0	4	16	1	11	w	Ira H. Hailey.
Springfield	Greene	1,350	42	42.4	+ 8.8	75	14	19	20	32	0.85	−1.42	0.41	4.7	7	15	4	9	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	42.0	+ 7.7	86	16	5	20	49	1.13	−1.33	1.56	2.9	4	16	4	8	sw.	
Southwest Plain.																				
Amoret	Bates	831	15	40.8	+ 7.3	74	13	15	20	40	0.16	−2.17	0.09	0	2	18	5	5	sw.	Darby Fruit Farm.
Appleton City	St. Clair	853	29	42.2	+10.3	75	14	19	20	35	0.03	−2.00	0 02	0.2	2	16	8	4	sw.	W. G. Bigelow.
Clinton	Henry	765	34	43.2	+11.6	77	14	22	18	40	0.25	−1.90	0.25	0	1	15	5	8	se.	A. E. Derwent, M. D
Harrisonville	Cass	904	46	38.6^{a}	+ 9.1	75	14	12	20	43	0.36	−1.73	0.26	0.5	3	14	8	6	s.	John H. Patterson.
Lamar	Barton	980	40	41.8	+ 7.5	74	14	12	20	36	0.17	−2.13	0.11	0	2	20	2	6	se.	Joe W. Springer.
Lamonte	Pettis	867	35	40.0	+ 8.8	72	14†	18	20	32	....	......	....	....	.	11	13	4	ne.	George B. Wagner.
Marshall	Saline	779	32	39.4^{a}	+10.2	74	15	16	20	35	0.42	−1.46	0.32	T.	2	15^{a}	3^{a}	9^{a}	se.	Dr. W. H. Black
Nevada	Vernon	862	30	42.5	+10.9	73	14†	19	20	33	0.25	−1.84	0.22	0	2	17	6	5	s.	George A. Kaupp.
Warrensburg	Johnson	878	43	39.7	+ 8.6	76	16	17	20	42	0.44	−1.65	0.40	0	2	..	..	..	..	S. I. Major.
Warsaw	Benton	687	26	42.9	+ 9.5	77	14	15	20	45	0 55	−2.04	0.45	T.	2	9	14	5	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	41.1	+ 9.4	77	14	12	20	45	0.29	−1.88	0.45	0.1	2	15	7	6	se.	
Northwest Plateau.																				
Avalon	Livingston	730	24	38.1	+ 9.3	73	15	17	20	35	0.80	−1.37	0.50	1.5	3	13	7	8	nw.	F. G. Ashbaugh.
Bethany	Harrison	916	30	37.0	+10.8	81	15	12	18†	37	0.17	−1.39	0.12	0.5	2	12	5	11	sw.	M. H. Moulton.
Chillicothe	Livingston	779	13	39.6	+ 7.8	73	14	11	20	42	0.36	−2.17	0.36	T.	1	..	..	..	.	G. L. Fellinger.
Conception	Nodaway	980	37	37.0	+10.6	73	15	13	20	36	0.13	−1.13	0.13	T.	1	11	8	9	sw.	Fr. Adelhelm Hess.
Edgerton	Platte	856	9	38.4^{a}	......	71	15	9	27	46	0.31	−1.39	0.27	0	3	16	5	7	sw.	Fred L. Stiff.
Grant City	Worth	1,134	30	....	......	..	..	..	..	..	....	......	....	....	.	..	..	..	....	J. E. Engle.
Kansas City	Jackson	963	32	40.7	+10.8	73	14	20	20	33	0.32	−1.27	0.16	.04	4	13	7	8	sw.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	34	36.0	+ 9.3	74	14	10	20	38	0.70	−0.93	0.40	0	2	18	2	8	se.	Linn Terry.
Lexington	Lafayette	688	39	39.6	+10.5	73	15	15	20	37	0.41	−1.62	0.22	0	2	17	1	10	s.	J. W. Keithley.
Liberty	Clay	859	31	39.8	+10.4	74	15	16	20	40	0.34	−1.60	0.26	0.8	3	13	8	7	nw.	James H. Harris.
Maryville	Nodaway	1,036	27	33.3	+10.0	73	15	13	18†	41	0.50	−1.00	0.20	0.8	5	14	3	11	s.	J. R. Brink.
Oregon	Holt	1,048	66	36.6	+ 8.6	73	15	17	17†	37	0.53	−1.17	0.31	T.	2	14	6	8	nw.	Tom Curry.
St. Joseph	Buchanan	967	49	38.4	+ 8.6	73	15	19	20	35	0.39	−0.95	0.20	.01	5	13	5	10	nw.	U. S. Weather Bureau.
Tarkio	Atchison	916	28	36.5	+ 9.7	73	15	16	17†	39	0.02	−1.04	0.02	T.	1	15	9	4	sw	John F. Frazier.
Trenton	Grundy	822	26	36.6	+ 8.9	69	15	16	20	31	0.47	−1.21	0.27	T.	4	14	5	9	s.	W. H. Estes.
Section means and	extremes	.....	..	37.5	+ 9.8	81	15	9	27	46	0.39	−1.24	0.50	0.4	3	14	6	8	sw.	
State means and	extremes	.....	..	40.1	+ 9.1	86	16	5	20	53	0.94	−1.33	2.00	1.8	4	14	6	8	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record. but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean. Anderson: of Gano. Salem, R. F. D. No. 5.

Daily Precipitation for February, 1921.

Stations.	Drainage-basins.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Northeast Plain.																																	
Boonville ‖	Missouri							.10	.17			T.	.06				T							.09	T.								0.42
Brunswick ‖	Grand							.30					.02											.28									0.60
Clifton Hill	Chariton								.18			.04											.30										0.52
Columbia**	Missouri	T.					T.	.21	.14			.05					T.						.05		T.		T.						0.45
Downing	Mississippi	T.						.02	.20			.20											.36										0.78
Fayette ‡‖	Missouri							.04	.12														.08										0.24
Fulton	do							.66				.03	.05										.03	.02	.02								0.81
Gorin	Mississippi								.16			.09											.48										0.73
Hannibal**	do	T.					T.	.08	.07		.11	.05						T.					.09		T.								0.40
Hermann ‖	Missouri							.50	.30			.02	.08												T.								0.90
Jefferson City ‖	do							.65	.18	T.			.05																				0.88
Kirksville	Mississippi								.20			.10											.40										0.70
Louisiana	do	T.						.47	.06			.45	.05									T.	.05										1.08
Macon ‖	Chariton		T.						.24			T.	.07											.37									0.68
Mexico ‖	Mississippi							.20	.09		.03		.07											.11									0.50
Pacific ‖	Meramec				.01	.08		.10	.37	T.		.09	.08											.06									0.79
Palmyra ‖	Mississippi								.11		.14	T.												.36									0.61
St. Catharine	Grand	T.					T.		.25			.03											.41										0.69
St. Charles	Missouri				T.			.16	.38		T.	.26												T.			T.						0.80
St. Louis (1)***	Mississippi				.16	T.	.08	.13	.30		.21	.11											.09		T.		T.						1.08
St. Louis (2)	do	T.			.17		.03	.11	.34		.12	.09											.03		T.		T.						0.89
Shelbina	do							.30															.30										0.60
Steffenville	do	T.					T.		.30			.10	T.										.30										0.70
Union ‡‖	Meramec					.01		.13	.50	.02		.02	.10											.05	.03								0.86
Unionville	Chariton	T.						T	.15		T.	.12											.30										0.57
Valley Park ‡‖	Meramec				.03	T.		.10	T.	.02		.13	.09											.02	T.								0.39
Warrenton ‖	Mississippi							.50	.26			.02	.07												T.								0.85
Keokuk, Iowa***	do	T.							.10		T.	.05											.24		.09								0.48
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi					.26		.70	.02			.12	.06							.25	1.15			.07									2.63
Caruthersville	do					1.12		2.00	T.		68	.25	.15						.32	1.00					T.								5.52
Doniphan	Black	T.			.03	.28		52				T.								1.75							T.						2.58
Jackson	Mississippi					.42		57	.07		.02		.10						.65														1.83
Marble Hill	do				.35			.70												.51							.09						1.65
New Madrid ‖	do					.55	.02	1.55	.35		.05	.40	.02							.40	.47					.02		.02					3.85
Parma	do				.20	.34		2.00			.40		.03							.46													3.43
Patton (near)	do				.54			.78												.30													1.62
Poplar Bluff ‖	Black						T.	T.											T.	.82	.12		T.	T.									0.94
Vanduser	Mississippi				.11	.56		1.25	.01		45									.33													2.71
Cairo, Ill.***	do	T.			.04	.63		1.21	T.		.42	.01	T.				.13		T.	1.26			T		T.		.02						3.72
Ozark Plateau.																																	
Arcadia ‖	St. Francis	T.	T.			.03		.89	.07			T.	.01							T.	.08			.03	.01	T.							1.12
Birchtree	Black				.06			1.56	.15											.26													2.03
Bolivar	Osage	T.	T.					.26	.30	T.	T.									T.			T.		T.	T.							0.56
Dean	Neosho					.20		.68	.08		T.								T.	.05					.28								1.29
Eldon	Osage					.02		.80	.16			.08																					1.06
Farmington	St. Francis				.05	T.		.65	.10		T.	.03	.08							.18				.10	.02		T.						1.21
Gano	Meramec				.09			.21	.21		T.		.08							.20			T.										0.79
Goodland	Black					.15		.58	.05											.24													1.02
Hollister	White				.50			.85	1.05											.34													2.74
Houston	Gasconade					.15		.5	.13		T.									.46			.07		04		T.						1.35
Koshkonong	Black				.02	.17		1.60	.01											.60					T.								2.40
Lebanon ‡‖	Osage	T.	T.					.08	.47											T.					T.	.05							0.60
Lockwood	do							.55																									0.55
Mountain Grove ‖	White					.08		.42	.45											.07	.29			.06		.18							1.55
Neosho	Neosho	T.			T.			.61	.35										T.	.15					T.								1.11
Rolla ‖	Meramec				T.			.14	.43		T.									.02			T.										0.59
Seymour	White					.02		.17	.48								T.			.10					T.								0.77
Springfield ***	do		.01		T.		.12	.32	.05											.30			.02		.03								0.85
Steelville ‡‖	Meramec				.12			.13	.37				.10							.05	.02			.06	.04			.02					0.91
Tuscumbia ‡‖	Osage							.47	.20				.02											T.	T.								0.69
Southwest Plain.																																	
Amoret	Osage							.07	.09														T.										0.16
Appleton City	do	T.						T.	.02			.01											T		T.								0.03
Clinton	do									.25																							0.25
Harrisonville ‖	do								.26			.04												.06									0.36
Lamar ‖	Neosho							.11	.06																								0.17
Lamonte	Missouri																																......
Marshall	do	T.						T.	T.			T.											.10		.32								0.42
Nevada	Osage							.22	.03																								0.25
Osceola ‡‖	do							.25																									0.25
Warrensburg	Missouri								.40														.04										0.44
Warsaw	Osage	T.						.45	.10			T.											T.		T.		T.						0.55
Waverly ‖	Missouri	T.	T.						.33				T.										T.	.23									0.56
Northwest Plateau.																																	
Avalon	Grand								.20														.50		.10								0.80
Bethany	do					T.			T				.12										.05		T.								0.17
Chillicothe	do								T.		T.												.36										0.36
Conception	Missouri																						.13		T.								0.13
Edgerton	Grand	T.							.03		.01	T.											.27		T.								0.31
Grant City	do																																....
Kansas City***	Missouri	T.					T.	.05	.08		.03	T.				T.							.16		T.								0.32
Kidder ‖	Grand																						.40	.30									0.70
Lexington ‖	Missouri								.22															.19									0.41
Liberty	do								T.			.07					T.						.26		.01								0.34
Maryville ‖	do	.05					T.		.20			T.	T.										.10	.10		.05							0.50
Oregon	do	T.					T.		.31			T.				T.							.22		T.								0.53
St. Joseph***	do	T.					T.	.08	.07		.01	T.				.03							.20		T.								0.39
Tarkio	do	T.					T.									T.							.02		T.								0.02
Trenton	Grand	T.					.06		.11		T.	T.	T										.27		.03								0.47

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for February, 1921.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum...	36	50	50	52	51	53	38	40	53	46	43	58	71	73	82	53	35	36	38	41	52	39	42	44	52	51	52	67	....	....	....	49.9
	Minimum ...	29	26	27	30	29	29	29	30	28	30	31	28	29	34	34	35	21	18	21	17	26	29	23	24	22	25	24	29	....	....	....	27.0
Columbia	Maximum...	33	47	51	52	53	51	46	41	50	44	42	58	67	72	74	67	35	33	35	41	50	44	40	45	51	52	49	65	....	....	....	49.7
	Minimum ...	30	28	34	39	30	35	33	31	28	31	31	30	37	39	53	35	23	21	24	20	29	28	24	31	23	31	28	37	....	....	....	30.8
Fayette§§	Maximum...	45	47	53	50	51	34	37	48	43	42	55	66	72	73	63	34	33	34	38	57	50	40	42	48	48	48	63	72	....	....	....	49.5
	Minimum ...	27	26	28	34	28	32	30	28	26	29	33	28	32	32	46	34	20	18	25	16	24	30	34	26	22	30	26	28	....	....	....	28.3
Hannibal	Maximum...	34	49	48	51	48	49	42	43	47	48	37	54	69	65	74	64	34	33	34	37	46	42	37	42	48	47	40	63	....	....	....	47.3
	Minimum ...	30	30	34	38	30	32	33	35	30	31	31	33	39	35	49	34	20	20	23	19	30	28	23	31	35	30	27	30	....	....	....	30.5
Jefferson City §§	Maximum...	33	48	54	53	53	58	40	42	47	49	42	57	70	71	74	53	36	33	34	41	50	47	42	48	53	58	50	67	....	....	....	50.1
	Minimum ...	30	28	29	35	32	34	34	34	28	29	31	29	35	40	41	41	23	22	23	20	24	26	25	28	24	22	29	29	....	....	....	29.5
Kirksville	Maximum...	34	41	44	49	43	40	39	42	50	43	33	54	70	68	73	65	36	34	33	38	48	40	37	43	48	46	44	65	....	....	....	46.4
	Minimum ...	27	26	31	30	27	28	27	30	28	29	28	29	35	34	41	32	16	13	21	13	25	32	18	26	22	17	23	32	....	....	....	26.5
Louisiana	Maximum...	31	45	48	52	56	52	48	40	44	52	48	46	66	66	74	72	52	38	40	43	46	42	40	42	48	48	42	..	....	....	....	[a]49.0
	Minimum ...	32	32	34	40	44	34	35	36	40	28	33	33	33	32	46	42	22	18	18	16	33	22	27	30	40	28	30	.	....	....	....	[a]31.8
Macon §§	Maximum...	34	49	48	56	51	50	36	39	52	45	39	54	70	72	76	52	35	35	36	40	52	51	40	45	50	47	49	66	....	....	....	49.0
	Minimum ...	28	25	28	32	29	31	29	29	27	29	28	30	30	36	40	33	18	16	20	15	25	23	20	20	22	23	25	26	....	....	....	26.3
Mexico §§	Maximum...	34	49	52	57	53	50	38	44	50	52	40	55	68	71	75	52	37	35	36	40	49	44	43	41	51	51	46	66	....	....	....	49.4
	Minimum ...	28	28	29	34	29	30	32	33	29	29	32	31	35	36	37	42	22	18	24	18	22	30	22	23	27	30	26	24	....	....	....	28 6
St. Catharine	Maximum...	36	47	45	50	44	47	46	37	48	46	40	54	66	66	71	65	45	32	33	37	48	45	39	42	49	47	45	65	....	....	....	47.7
	Minimum ...	27	24	28	28	27	30	26	29	26	27	28	28	29	35	45	30	16	13	22	13	25	31	18	27	20	33	22	26	....	....	....	26 2
St. Louis (1)	Maximum...	34	49	51	51	49	53	51	49	50	44	39	54	69	72	73	62	42	32	36	39	46	54	40	39	54	59	38	64	....	....	....	49.9
	Minimum ...	30	31	35	43	39	31	39	37	34	33	33	34	47	50	52	42	28	24	27	23	30	31	27	31	32	32	31	31	....	....	....	34.3
Unionville	Maximum...	31	33	45	43	46	38	33	35	48	46	36	55	66	66	72	66	43	35	32	38	46	42	38	41	48	46	44	60	....	....	....	45.5
	Minimum ...	26	28	25	28	26	25	24	28	26	28	26	28	35	32	45	30	14	10	18	8	20	32	15	24	20	30	26	32	....	....	....	25.3
Warrenton §§	Maximum...	31	48	53	52	53	52	37	43	51	49	38	58	70	75	74	52	33	32	35	38	50	50	38	43	51	55	45	63	....	....	....	48.9
	Minimum ...	28	28	30	33	32	32	35	34	28	29	31	31	32	44	49	47	23	20	21	19	21	36	23	25	30	30	27	27	....	....	....	30.2
Southeast Lowlands.																																	
Caruthersville	Maximum...	42	46	59	56	56	68	62	68	56	49	49	58	75	81	75	73	63	43	32	42	53	60	51	55	56	72	58	66	....	....	....	58.0
	Minimum ...	36	31	30	41	41	42	46	46	45	39	35	40	41	42	49	58	36	29	29	22	26	29	31	32	30	41	35	27	....	....	....	36.9
Doniphan	Maximum...	36	41	52	55	61	63	69	60	54	56	51	56	72	74	68	68	56	80	33	40	43	51	48	54	60	68	55	62	....	....	....	56.5
	Minimum ...	30	30	25	40	46	42	45	42	35	38	36	38	35	36	47	55	29	27	19	14	18	23	30	19	20	27	32	25	....	....	....	32.2
Jackson	Maximum...	36	44	36	48	52	64	58	54	53	45	45	52	72	71	72	71	53	37	31	33	45	49	52	45	51	70	46	59	....	....	....	51.6
	Minimum ...	32	31	41	37	41	47	44	41	35	32	34	31	34	34	45	53	30	25	25	17	24	22	29	25	25	38	31	26	....	....	....	33.3
Poplar Bluff§§	Maximum...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum ...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Cairo, Ill.	Maximum...	35	39	53	52	52	64	61	56	50	42	43	49	71	73	71	67	50	32	32	35	37	49	41	39	47	63	36	57	....	....	....	49.9
	Minimum ...	33	33	32	41	41	39	46	44	40	33	35	37	42	50	52	50	29	27	26	22	26	27	31	30	30	36	32	30	....	....	....	35.5
Ozark Plateau.																																	
Arcadia §§	Maximum...	33	49	54	54	60	62	53	59	56	53	45	57	78	75	72	62	44	32	32	43	53	52	48	53	56	65	52	67	....	....	....	54.2
	Minimum ...	29	23	29	29	40	35	38	37	33	28	33	34	34	34	35	46	29	21	22	15	16	24	25	24	28	34	29	28	....	....	....	29.7
Birchtree	Maximum...	34	46	54	56	....	62	55	51	56	55	49	59	76	78	70	67	48	36	30	42	47	49	47	59	59	67	54	66	....	....	....	[a]54.5
	Minimum ...	29	26	25	41	....	41	42	39	30	30	32	35	33	42	46	48	28	23	22	15	21	29	25	25	26	37	27	27	....	....	....	[a]31.3
Eldon	Maximum...	38	51	55	53	70	63	55	41	43	48	44	63	80	80	61	58	35	35	38	51	52	42	60	50	57	60	66	61	....	....	....	53.9
	Minimum ...	24	25	28	40	28	35	32	32	26	26	28	25	40	37	45	35	19	18	13	13	23	32	21	27	20	33	24	31	....	....	....	27.9
Farmington	Maximum...	31	44	52	52	53	61	53	54	51	46	44	52	73	73	71	60	50	33	31	39	45	50	45	46	56	60	48	62	....	....	....	51.2
	Minimum ...	28	28	28	38	40	36	37	36	31	30	30	32	40	39	45	50	27	21	23	15	23	25	24	26	28	40	28	27	....	....	....	31.2
Hollister	Maximum...	48	45	58	56	60	65	55	50	55	55	60	68	80	80	81	70	55	40	24	4	50	45	52	52	62	52	61	70	....	....	....	56.9
	Minimum ...	36	18	22	40	15	20	40	40	40	40	....	....	....	48	40	30	20	12	15	16	20	15	19	22	20	20	30	....	....	....	....	[d]27.7
Koshkonong	Maximum...	35	46	56	54	62	66	60	55	56	55	49	59	79	81	72	64	49	45	31	43	48	50	49	59	58	68	54	67	....	....	....	56.1
	Minimum ...	30	28	29	43	43	41	47	41	32	34	35	34	41	47	49	48	31	26	23	17	21	30	27	38	29	39	29	28	....	....	....	34.3
Lebanon §§	Maximum...	34	48	48	56	59	69	53	43	47	50	57	60	72	74	47	43	40	38	35	39	45	38	47	53	54	60	57	64	....	....	....	51.1
	Minimum ...	28	23	24	31	34	33	41	41	29	27	27	23	25	45	45	15	23	23	22	16	22	26	23	23	22	38	29	34	....	....	....	28.3
Mountain Grove §§	Maximum...	34	48	48	53	58	63	51	47	50	52	47	59	74	78	69	55	41	33	36	41	44	51	47	53	55	60	63	[a]	....	....	....	[a]52.2
	Minimum ...	27	25	28	35	38	46	51	37	29	29	32	33	38	47	49	49	25	22	22	26	15	20	25	30	26	35	36	35	....	....	....	32.5
Neosho	Maximum...	35	46	55	58	60	65	67	40	36	53	55	63	76	76	76	54	53	38	39	39	51	46	53	60	57	56	63	66	....	....	....	54.9
	Minimum ...	31	23	32	40	30	40	33	33	31	27	31	26	38	40	45	45	27	29	24	9	21	33	20	32	25	28	24	44	....	....	....	30.8
Rolla	Maximum...	33	48	55	57	60	63	60	45	54	51	51	54	74	79	73	70	45	34	35	44	55	50	44	51	61	60	54	68	....	....	....	54.6
	Minimum ...	29	27	30	43	38	40	36	36	29	31	30	33	33	45	52	45	25	22	25	21	25	35	24	30	27	42	29	35	....	....	....	32.8
Springfield	Maximum...	31	44	54	53	55	65	55	41	47	46	50	61	70	75	70	64	38	34	35	37	45	49	45	54	53	59	55	64	....	....	....	51.9
	Minimum ...	29	27	32	44	35	45	35	32	28	32	31	29	46	53	52	38	26	25	22	19	26	31	25	35	29	33	27	38	....	....	....	33.0
Southwest Plain.																																	
Amoret	Maximum....	35	48	48	51	58	66	54	41	54	45	55	59	74	73	72	65	45	32	39	40	50	39	51	58	55	61	56	70	....	....	....	53.4
	Minimum,...	32	24	30	28	27	35	27	29	23	30	28	25	36	35	46	35	21	20	25	15	25	33	20	35	22	35	20	30	....	....	....	28.3
Appleton City	Maximum...	34	48	50	53	57	62	56	36	52	48	52	58	70	75	70	65	48	36	38	42	49	45	49	56	52	59	56	70	....	....	....	53.1
	Minimum ...	30	26	31	35	31	38	30	31	27	32	31	27	39	41	52	37	24	23	27	19	26	35	22	37	24	37	27	35	....	....	....	31.3
Clinton	Maximum...	35	48	49	56	59	63	61	60	54	49	50	51	73	77	75	67	56	35	43	45	52	49	48	53	58	60	57	72	....	....	....	55.5
	Minimum ...	29	27	25	35	29	38	40	38	37	31	31	36	38	37	47	36	22	22	27	28	25	25	24	23	24	30	30	33	....	....	....	31.0
Harrisonville §§	Maximum...	29	49	48	50	56	63	34	34	56	47	51	60	73	75	....	54	39	31	40	40	51	41	49	53	51	58	54	71	....	....	....	[a]50.3
	Minimum ...	28	24	25	31	27	34	28	28	26	27	31	30	30	42	41	....	21	20	21	12	23	27	21	24	23	25	25	31	....	....	....	[a]26.9
Lamar §§	Maximum...	37	47	57	55	59	65	47	38	54	49	56	60	72	74	72	55	42	34	42	44	53	47	51	62	58	65	59	70	....	....	....	54.4
	Minimum ...	28	24	25	31	27	31	31	30	25	28	29	24	36	38	51	40	21	25	27	12	23	34	21	33	24	35	24	36	....	....	....	29.1
Lamonte	Maximum...	40	41	39	43	40	50	47	27	42	38	34	46	59	72	72	67	62	56	53	41	48	45	48	47	51	50	56	53	....	....	....	48.8
	Minimum ...	30	29	26	35	30	30	23	23	24	25	25	27	39	40	51	50	52	40	20	18	25	35	23	34	23	26	28	40	....	....	....	31.1
Marshall	Maximum...	35	47	51	51	52	56	48	39	50	44	40	55	67	72	74	55	46	34	36	39	50	38	....	44	53	44	51	64	....	....	....	[a]49.4
	Minimum ...	29	25	30	31	30	35	30	34	27	33	33	26	34	39	39	31	21	19	27	16	25	33	....	32	22	34	28	31	....	....	....	[a]29.5
Nevada	Maximum...	35	49	53	54	58	63	54	36	51	48	55	59	72	73	73	63	41	34	39	43	45	45	49	59	55	62	57	68	....	....	....	53.2
	Minimum ...	30	27	37	33	29	39	30	33	27	31	30	27	41	40	52	40	24	25	28	19	26	33	23	38	25	38	23	39	....	....	....	31.8
Warrensburg	Maximum...	31	34	48	50	52	57	59	64	52	50	46	47	57	68	75	76	52	36	33	38	43	51	42	46	50	54	55	55	....	....	....	50.8
	Minimum ..	29	27	28	32	30	29	30	29	27	29	32	27	29	40	44	34	22	20	25	17	22	29	24	27	25	29	28	38	....	....	....	28.6
Warsaw	Maximum...	33	49	53	55	58	65	60	37	53	49	50	61	73	77	75	71	50	35	41	45	51	47	46	50	53	60	55	68	....	....	....	54.3
	Minimum ...	30	28	33	41	28	40	32	36	27	28	34	26	43	32	52	38	24	22	29	15	25	36	25	32	21	41	30	34	....	....	....	31.5
Northwest Plateau.																																	
Chillicothe	Maximum...	45	49	48	46	47	43	49	44	53	45	50	60	72	73	65	50	47	34	36	45	53	40	43	45	55	50	55	66	....	....	....	50.3
	Minimum ...	21	23	30	29	28	31	33	32	32	26	28	35	31	31	43	36	18	16	29	11	36	34	21	30	21	34	21	45	....	....	....	28.8
Grant City	Maximum...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum ...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Kansas City	Maximum...	35	48	48	42	51	61	32	34	52	42	49	62	70	73	71	65	35	31	35	39	52	40	46	51	57	53	55	68	....	....	....	49.9
	Minimum ...	28	30	36	28	33	32	27	30	28	32	30	33	40	45	54	32	22	23	25	20	30	32	28	37	31	31	26	49	....	....	....	31.5
Kidder §§	Maximum...	35	46	41	39	51	49	31	31	33	37	47	60	67	71	54	43	32	31	31	39	54	48	43	34	54	57	60	63	....	....	....	46.0
	Minimum ...	26	25	31	28	28	31	25	25	25	25	30	25	34	33	32	27	25	18	15	10	15	32	30	26	21	24	27	30	....	....	....	25.9
Lexington §§	Maximum...	36	50	48	46	54	58	34	36	53	44	46	60	70	72	73	53	36	34	38	40	50	27	41	39	53	59	52	68	....	....	....	49.4
	Minimum ...	28	27	31	29	27	34	30	32	27	31	32	27	36	35	51	34	21	20	26	15	25	35	24	35	23	40	24	39	....	....	....	29 9
Maryville §§	Maximum...	38	46	41	45	39	32	29	30	50	34	43	59	67	67	73	49	31	36	33	37	50	39	43	46	59	45	47	63	....	....	....	45.4
	Minimum ...	21	21	22	25	25	28	20	19	22	21	28	24	26	33	33	25	14	13	16	13	13	24	17	17	21	20	17	17	....	....	....	21 2
Oregon	Maximum...	37	44	43	44	39	37	30	33	47	40	46	59	66	66	73	64	39	36	32	40	50	42	42	47	59	54	51	63	....	....	....	47.2
	Minimum ...	25	24	31	24	30	27	21	25	24	30	27	27	33	36	49	27	17	19	17	17	26	20	22	22	24	30	21	32	....	....	....	26.0
St. Joseph	Maximum...	37	46	45	43	41	47	32	34	50	37	46	62	70	71	73	55	32	33	34	40	51	40	44	47	59	51	53	65	....	....	....	47.8
	Minimum ...	27	27	34	28	31	28	21	28	28	32	30	29	35	39	54	28	20	21	20	19	32	29	24	34	27	29	23	32	....	....	....	29.0
Trenton	Maximum ..	36	45	44	42	41	40	36	36	47	40	40	56	61	63	69	62	36	35	31	37	46	39	37	42	47	49	45	59	....	....	....	45.0
	Minimum...	28	27	32	28	29	31	26	30	28	30	30	31	33	31	46	32	17	17	19	16	28	31	28	30	23	34	23	28	....	....	....	28.2

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXV. COLUMBIA, MO., MARCH, 1921. No. 3.

GENERAL SUMMARY.

March, 1921, in Missouri, like the preceding winter months, was characterized by a remarkable and persistent mildness up to the last three or four days.

The unusual and prolonged spell of mild weather will further be impressed upon our memories by placing in review here the marked positive temperature departures of the past four months.

The average departure from normal temperatures during December, January, February, and March, was plus 6.4°. January, February, and March, plus 8.1°. February and March, plus 8.8°. From these data we may conclude that the prevailing warmth of the season just closed approximated the mildness of winters normal to latitudes of from 100 to 170 miles farther south. This is equivalent to a geographic displacement. Missourians, then, climatically, spent the four most unpleasant months in Arkansas.

The cold wave that overspread the State on the 28-29th was a sudden and severe change. From the side of personal comfort it was decidedly unpleasant. Vegetation, which was a month ahead or earlier than its usual March state, was severely damaged. To fruits the freeze was well-nigh disastrous. Oats, alfalfa, and clover were considerably damaged; but winter wheat was not seriously affected. Spring plowing and farm work in general were well ahead of the average.

TEMPERATURE.

The monthly mean temperature, based upon the records of 65 stations, was 51.9°. The mean departure from the normal for 62 stations having 10 or more years' record was plus 8.5°. This March was the third warmest of the name in thirty years. Also it was the fourth consecutive month of above normal temperature values, and the third consecutive month of marked positive departures. The general persistence of warmth was the unusual feature. The first real cold snap did not occur until the 28th, and the 29th; and the drop was from almost summer warmth to that of winter. The warmest days perhaps embraced the period from the 15th to the 18th, inclusive, when the day temperatures ranged in the high 80's generally. During the only cold spell — the last four days — minimum temperatures ranged from 11° above zero at Maryville, to 29° at Caruthersville Fifty stations reported temperatures of 20° or lower. The sudden change from pleasant warmth to winter cold was not only decidedly unpleasant from the side of personal comfort, but it was well-nigh disastrous to most vegetation.

PRECIPITATION.

The average precipitation for the State, 83 stations reporting, was 4.69 inches. The departure from the normal for 73 stations having 10 or more years' record was plus 1.68 inches. The precipitation was copious in all sections, and in all but the northwestern plateau, was markedly excessive. The soil, however, being relatively dry, took up the excessive moisture quite readily. The more or less heavy and general rains fell from the 6th to the 8th, and from the 21st to the 28th. During the second decade precipitation was frequent but in the form of local showers. The greatest monthly fall was 11.23 inches, at Dean. The greatest amount in any 24 consecutive hours was 2.88 inches, at Dean on the 27th.

A quite general but moderate snowstorm occurred on the 27th.

WIND.

The prevailing winds were from the south. The average wind movement, 8 stations equipped with anemometers reporting, was 9,190 miles, or about 16 per cent above normal. Winds of 35 miles an hour prevailed on the 5th and 26th. No damage was reported.

SUNSHINE AND CLOUDINESS.

There were 13 clear days, 9 partly cloudy, and 9 cloudy days. The average number of hours of sunshine, 6 well selected stations reporting, was 218. This is about 59 per cent of the possible, and about 4 per cent above normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense.—6th, 7th, 12th, 13th, 14th, and 17th.

Frosts, killing.—28th, 29th, 31st.

Hail.—7th, 8th, 16th, 25th, 26th, and 27th.

Halos, solar.—1st, 2d, 18th, 21st, 25th, and 26th. Halos, lunar.—8th, 16th, 17th, and 21st.

Sleet.—27th.

Thunderstorms.—5th, 6th, 7th, 8th, 13th, 15th, 24th, 25th, 26th, and 27th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Max. velocity. Direction.	Max. velocity. Date.
Columbia	30.02	77	..	207	56	7,720	10.4	35	s.	5
Hannibal	30.02	74	..	...	..	8,437	11.3	42	sw.	5
Kansas City	30.02	72	56	237	64	10,416	14.0	57	sw.	26
St. Joseph	29.99	74	53	224	60	8,221	11.0	42	w.	5
St. Louis	30.04	75	56	227	61	12,244	16.5	50	s.	5
Springfield	30.04	82	69	200	54	9,657	13.0	40	sw.	8
Cairo, Ill	30.07	76	64	...	..	9,508	12.8	42	ne.	27
Keokuk, Iowa	30.03	76	60	216	58	7,335	9.8	35	se.	26

COMPARATIVE DATA FOR MARCH.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	38.5	−4.8	90	1	4.02	+1.11	.....	.....	10	....	....	....
1889	44.3	+1.0	84	13	1.98	−0.93	.....	.....	5	....	....	....
1890	37.3	−6.0	76	−11	2.61	−0.30	.....	5.7	8	....	....	....
1891	36.6	−6.7	78	−11	3.01	+0.10	.....	7.1	10	....	....	....
1892	38.9	−4.4	87	5	3.11	+0.20	.....	.....	8	8	10	13
1893	40.5	−2.8	86	1	2.86	−0.05	2.15	3.2	7	11	10	10
1894	47.7	+4.4	89	2	2.93	+0.02	3.20	0.2	6	15	9	7
1895	42.4	−0.9	98	0	2.14	−0.77	3.00	4.4	9	14	7	10
1896	39.2	−3.9	82	2	2.05	−0.86	4.47	5.2	8	11	9	11
1897	44.2	+0.9	93	−5	6.07	+3.16	4.10	1.0	12	9	9	13
1898	44.7	+1.4	83	9	7.09	+4.18	3.87	0.6	11	11	7	13
1899	37.4	−4.1	78	−8	2.93	+0.02	4.30	8.9	6	9	11	11
1900	40.4	−1.9	88	−4	1.48	−1.43	3.41	0.2	6	15	9	7
1901	42.7	−0.6	85	−1	3.74	+0.83	3.21	1.8	8	11	8	12
1902	45.3	+2.0	85	1	3.49	+0.58	5.60	0.8	9	10	10	11
1903	46.8	+3.5	81	9	3.35	+0.44	6.19	1.1	8	13	7	11
1904	44.8	+1.5	87	8	4.14	+1.23	7.50	1.2	9	11	9	11
1905	50.3	+7.0	88	10	2.99	+0.08	2.67	T.	8	11	8	12
1906	34.6	−8.7	75	−5	3.93	+1.02	3.00	8.6	11	6	7	18
1907	53.9	+10.6	95	16	2.82	−0.09	3.08	1.0	7	14	7	10
1908	50.1	+6.8	89	14	2.58	−0.33	2.55	1.0	7	14	7	10
1909	44.5	+1.2	81	9	3.07	+0.16	3.30	0.6	6	13	9	9
1910	55.8	+12.5	96	15	0.66	−2.25	2.25	0.1	2	20	7	4
1911	46.8	+3.5	91	5	1.85	−1.06	2.00	1.4	6	16	8	7
1912	35.2	−8.1	89	−4	4.62	+1.71	2.85	16.5	11	12	6	13
1913	40.6	−3.7	84	−12	4.36	+1.31	7.97	5.0	9	12	8	11
1914	43.2	−1.3	87	−2	2.75	−0.41	3.01	4.7	8	13	7	11
1915	36.4	−8.1	70	6	1.50	−1.74	1.85	7.9	6	7	8	16
1916	47.0	+1.3	95	−2	2.53	−0.65	4.25	3.1	7	14	8	9
1917	45.2	+1.7	86	−7	2.91	−0.42	4.08	1.5	7	15	7	9
1918	50.9	+7.8	95	8	0.94	−2.05	2.25	0.1	4	18	6	7
1919	46.3	+2.9	90	−2	2.40	−0.69	5.37	0.7	6	15	8	8
1920	44.6	+1.4	86	−6	5.01	+2.09	6.00	1.4	8	15	6	10
1921	51.9	+8.5	90	11	4.69	+1.68	2.88	0.5	10	13	9	9

Climatological Data for March, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	50.6	+ 9.5	88	19	18	28	45	3 35	+0.87	1.35	1.0	11	15	0	16	nw.	O.K. Benecke
Clifton Hill	Randolph	731	22	51.9	+10.3	80	18	16	28	40	3.29	+0.67	0.80	T.	11	11	13	7	......	L. S. Harlan.
Columbia	Boone	748	31	52.0	+10.6	81	18	19	28	38	3.37	+0.34	1.10	0.5	15	7	11	13	s.	U. S. Weather Bureau.
Downing	Schuyler	878	11	49.1	......	79	19	11	28	45	2.89	+0.49	1.40	0	9	16	4	11	s.	E. E. St. Clair.
Fayette	Howard	661	38	49.0	+ 7.3	81	17	16	28	45	3.58	+0.93	1.23	0	6	..	..	..	.....	L. W. Jacobs, jr.
Fulton	Callaway	818	29	52.4	+ 8.6	80	18†	17	28	41	4.52	+1.61	1.38	2.5	11	9	16	6	se.	Westminster College.
Gorin	Scotland	700	34	....	......	..	..	..	..	..	4.70	+2.23	2.20	0	10	7	10	14	sw.	J. W. Pulliam.
Hannibal	Marion	534	37	50.8	+ 9.2	80	20	18	28	42	3.35	+0.59	0.96	T.	17	7	8	16	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	88	51.8	+ 8.7	80	20	17	28†	40	4.53	+1.66	1.20	4.0	11	19	5	7	s.	Miss Emma Swift.
Kirksville	Adair	969	39	48.5	+ 9.9	78	18	13	28	43	4.75	+2.04	2.33	0	9	14	6	11	nw.	Prof. J. S. Stokes.
Louisiana	Pike	469	40	53.1	+10.8	80	19†	19	28	43	4.14	+1.47	1.15	1.0	13	17	5	9	s.	J. T. Farrell.
Macon	Macon	875	28	48.6	+ 6.4	84	18	14	28	47	3.69	+1.17	1.18	0	12	14	5	12	sw.	W. C. Brown.
Mexico	Audrain	800	43	49.5	+ 8.2	81	18	12	28	45	3.27	+0.60	0.92	T.	12	18	2	11	s.	Mrs. Abbie Snoddy.
Palmyra	Marion	652	22	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	..	W. B. Markell.
St. Catharine	Linn.	800	12	48.9	......	77	18†	15	28	41	5.31	......	2.70	T.	11	10	13	8	n.	L. D. Baker.
St. Charles	St. Charles	456	43	54.4	+10.9	82	20	21	28	40	6.05	+2.91	1.72	0.5	10	9	11	11	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	83	54.0	+10.2	81	20	22	28	39	6.14	+2.71	1.44	0	15	9	14	8	s.	U. S. Weather Bureau.
St. Louis (2)	....do	578	9	53.2	+10.4	82	20	21	28	41	6.08	+2.81	1.17	0.1	17	9	14	8	s.	St. Louis University.
Shelbina	Shelby	779	28	....	......	..	..	..	..	..	4.25	+1.63	1.40	0	5	..	..	..	.....	S. G. Parsons.
Steffenville	Lewis	650	28	51.4	+10.0	80	18†	15	28	43	5.04	+2.22	1.85	0	11	11	14	6	s.	Frank Hall.
Unionville	Putnam	1,062	28	47.2	+ 9.8	78	18	12	28	45	3.06	+0.75	1.50	T.	6	15	5	11	n.	Geo. W. Davis.
Warrenton	Warren	816	31	51.8	+10.3	83	20	17	28	40	5.21	+1.92	1.44	3.0	11	7	15	9	s.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	49	48.4	+10.5	80	19	15	28	44	5.13	+2.76	2.65	T.	13	5	10	16	nw.	U. S. Weather Bureau.
Section means and	extremes	.....	..	50.8	+ 9.5	88	19	11	28	47	4.36	+1.55	2.70	0.6	11	11	9	11	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	61.8	+10.7	88	15†	29	29	41	7.13	+3.28	1.72	0	10	18	4	9	s.	H. E. Averill.
Doniphan	Ripley	344	17	57.0	+ 7.4	83	15	23	29	36	6.75	+3.48	2.30	0	11	16	9	6	sw.	W. W. Martin.
Jackson	Cape Girardeau	428	31	55.8	+ 8.6	82	15	22	29	39	3.45	−0.72	1.30	0	9	7	15	9	s.	John J. Putz.
Marble Hill	Bollinger	470	27	56.7	+ 9.4	82	15	23	29	36	5.38	+1.18	1.25	0	9	17	9	5	s.	R. A. DeWitt.
Parma	New Madrid	281	..	....	......	..	..	..	..	..	6.80	......	2.08	0	10	..	..	..	.....	J. E. Pearce.
Patton (near)	Bollinger	500	11	....	......	..	..	..	..	..	6.23	+2.60	1.00	0	9	..	..	..	....	George F. Ellis.
Poplar Bluff	Butler	339	17	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	....	....
Vanduser	Scott	304	..	....	......	..	..	..	..	..	5.48	......	1.50	0	10	..	..	..	......	M. L. Armstrong.
Cairo, Ill.	Alexander, Ill	359	49	57.2	+10.2	82	15	27	29	36	4.26	+0.24	1.08	0	14	6	13	12	s	U. S. Weather Bureau
Section means and	extremes	....	..	57.3	+ 9.3	88	15†	22	29	41	5.68	+1.68	2.30	0	10	13	10	8	s.	
Ozark Plateau.																				
Arcadia	Iron	926	43	52.6	+ 7.8	83	15	20	29	43	6.20	+2.18	1.41	2.0	14	11	11	9	w.	Arcadia College.
Birchtree	Shannon	1,000	28	55.2	+ 7.7	83	15	18	29	43	8.00	+3.77	1.88	0	11	19	6	6	sw.	V. H. Kirkendall
Bolivar	Polk	1,071	32	54.2	+ 8.2	82	18	21	28	36	7.49	+4.43	2.00	2.0	9	13	10	8	s.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	54.6	+ 5.6	86	18	20	29	43	11.23	+7.82	2.88	0	11	11	6	14	e.	H. E. Dean.
Eldon	Miller	934	22	51.4	+ 8.0	90	18	14	28†	50	4.38	+1.47	1.10	3.0	11	9	14	8	s.	E. H. Shepherd.
Farmington	St. Francois	918	24	53.4	+ 6.5	80	15	19	29	36	5.76	+2.55	1.02	1.5	13	14	9	8	sw.	Robert Forsyth.
Gano ‡‡	Dent	1,250	20	53.4	+ 6.4	82	15†	17	29	38	7.61	+4.34	2.66	T.	11	15	5	11	s.	A. C. Leach.
Goodland	Iron	1,000	28	55.2	+10.3	83	15	17	29	46	5.09	+0.89	0.95	2.0	8	17	7	7	s	F. M. Adams.
Hollister	Taney	735	18	52.2	+ 3.6	85	18†	15	29	41	7.83	+4.74	2.10	0	10	21	0	10	sw.	W. P. Chapmann.
Houston	Texas	1,280	29	....	......	83	18	..	..	..	5.92	+1.77	1.31	2.0	12	16	7	8	sw.	Walter T. Beard.
Koshkonong	Oregon	958	20	57.1	+ 7.5	84	15	21	29	36	8.58	+4.99	2.67	0	11	14	6	11	sw.	R. M. Hitt.
Lebanon	Laclede	1,265	34	52.4	+ 6.9	84	18	20	29	43	5.93	+2.46	1.36	0 8	11	13	13	5	n.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	54.6	+ 6.8	85	18	20	28	34	6.42	+4.06	1.83	2.0	10	16	4	11	sw.	C. S. Crow.
Mountain Grove	Wright	1,463	25	51.6	+ 5,4	85	16	20	29	47	6.59	+2.29	1.94	0.5	10	7	11	13	s.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	54.6	+ 6.5	86	18	22	29	39	6.34	+2.88	2.00	0	9	14^b	4^b	11^b	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	55.8	+11.1	83	18	20	28	42	6 63	+3.09	2.02	0.2	8	16	8	7	s.	Prof. Elmo G. Harris.
Seymour	Webster	1,642	16	53.5	+ 8.3	80	18	19	29	41	7.28	+3.22	1.95	0.5	13	11	13	7	sw.	Ira H. Hailey.
Springfield	Greene	1,350	42	52.8	+ 9.3	82	18	20	28	41	7.35	+3.28	3.00	0	14	14	8	9	s.	U. S. Weather Bureau.
Section means and	extremes	.....	..	53.8	+ 7.4	90	18	14	28†	50	6.92	+3.35	2.88	1.0	11	14	8	9	sw.	
Southwest Plain.																				
Amoret	Bates	831	15	51.2	+ 7.8	85	18	19	28†	43	4.42	+1.93	1.35	T.	8	13	8	10	s.	Darby Fruit Farm.
Appleton City	St. Clair	853	29	52.8	+ 8.4	85	18	21	28	40	4.02	+1.01	0.88	T.	11	13	8	10	ne.	W. G. Bigelow.
Clinton	Henry	765	34	53.2	+ 9.2	87	18	21	28	41	6.20	+3.39	1.67	0	7	8	7	16	sw.	A. E. Derwent, M. D
Harrisonville	Cass	904	46	49.0^b	+ 8.2	85	18	18	29	45	3.00	+0.37	1.83	0	9	16	6	9	s.	John H. Patterson.
Lamar	Barton	980	40	53.2	+ 7.1	86	18	21	28	36	3.52	+0.64	0.90	0	13	17	2	12	se.	Joe W. Springer.
Lamonte	Pettis	867	35	....	......	..	..	..	..	..	.....	......	....	....	..	..	..	..	..	George B. Wagner.
Marshall	Saline	779	32	52.6^a	+10.4	84	18	18	28	42	1.71	−0.95	0.50	T.	7	10^b	11^b	8^b	se.	Dr. W. H. Black.
Nevada	Vernon	862	30	53.2	+ 9.2	85	18	21	28	38	3.23	+0.27	1.00	T	8	15	7	9	s.	George A. Kaupp.
Warrensburg	Johnson	878	43	51.4^a	+ 7.9	88	17	19	28	44	3.10	+0.52	1.70	0	5	..	..	..	..	S. I. Major.
Warsaw	Benton	687	26	54.8	+ 7.9	86	18	20	28	37	5.38	+2.24	1.40	3.0	10	9	16	6	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	52.4	+ 8.5	88	17	18	28†	45	3.84	+1.05	1.83	0.3	9	13	8	10	s.	
Northwest Plateau.																				
Avalon	Livingston	730	24	49.5	+ 8.2	80	18	12	28	37	3.70	+0.82	1.85	0.5	7	9^a	14^a	7^a	nw.	F. G. Ashbaugh.
Bethany	Harrison	916	30	48.4	+ 9.5	81	18	13	28	41	1.73	−0.46	0.83	T.	5	13	8	10	nw.	M. H. Moulton.
Chillicothe	Livingston	779	13	....	......	..	..	..	..	..	.....	......	....	....	..	..	..	..	......	G. L. Fellinger.
Conception	Nodaway	980	37	47.6	+ 9.2	83	18	12	28	42	1.01	−0.69	0.45	T.	6	8	14	9	sw.	Fr. Adelhelm Hess.
Edgerton	Platte	856	9	49.9^a	......	86	18	12	28	46	3.42	+1.00	2.37	0	7	12	9	10	sw.	Fred L. Stiff.
Grant City	Worth	1,134	30	48.4	+ 8.5	87	18	12	28	43	1.62	−0.33	0.75	0	3	19	4	8	s.	J. E. Engle.
Kansas City	Jackson	963	32	50.9	+10.1	85	18	18	28	36	3 60	+0.78	2.12	0.8	11	10	11	10	s.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	34	46.8	+ 6.4	74	16	15	28	38	2.96	+0.73	1.75	0	4	15	2	14	sw.	Linn Terry.
Lexington	Lafayette	688	39	50.1	+ 7.3	85	17	19	28	46	2.39	+0.12	0.65	1.0	10	11	9	11	s.	Edwin G. Loomis.
Liberty	Clay	859	31	51.4	+ 9.3	86	18	17	28	41	4.70	+2.15	1.90	T.	11	12	9	10	sw.	James H. Harris.
Maryville	Nodaway	1,036	27	44.4	+ 8.1	84	18	11	28†	45	0.91	−0.98	0.41	0	9	13	8	10	n.	J. R. Brink.
Oregon	Holt	1,048	66	48.0	+ 9.1	85	18	14	28	37	0.65	−1.38	0.29	T.	3	13	7	11	nw.	Tom Curry.
St. Joseph	Buchanan	967	49	48.8	+ 6.1	84	18	16	28	36	1.27	−0.74	0.72	T.	10	13	8	10	s.	U. S. Weather Bureau.
Tarkio	Atchison	916	28	47.4	+ 8.6	83	18	14	28	43	1.19	−0.53	0.50	0	5	20	7	4	nw.	John F. Frazier
Trenton	Grundy	822	26	48.0	+ 7.8	77	19	15	28	39	3.31	+1.07	1.62	T.	9	13	10	8	s.	W. H. Estes.
Section means and	extremes	.....	..	48.5	+ 8.3	86	18	11	28†	46	2.32	+0.11	2.37	0.2	7	13	9	9	s.	
State means and	extremes	.....	..	51.9	+ 8.5	90	18	11	28†	50	4.69	+1.68	2.88	0.5	10	13	9	9	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for March, 1921.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville ‖	Missouri	....	....	....	....	....	.14	.86	.68	....	....	....	....	....	T.	....	.03	....	....	....	....	1.25	....	....	.16	....	.37	.17	.10	....	....	....	3.76
Brunswick ‖	Grand	....	....	....	....	....	.07	.37	.70	....	....	....	.03	....	.12	....	....	....	....	....	....	1.35	....	....	.12	.04	.37	.06	.12	....	....	....	3.35
Clifton Hill	Chariton	....	....	....	....	T.	.60	....	.80	....	....	.03	....	T.	....	.10	....	....	....	....	.65	.47	....	.04	.11	.03	.38	.08	....	....	....	....	3.29
Columbia***	Missouri	....	....	....	....	.05	1.05	.15	.15	....	....	T.	....	.06	.01	.02	....	....	....	T.	.42	.43	.01	.03	.07	.01	.25	.66	....	....	....	....	3.37
Downing	Mississippi	....	....	....	....	....	.21	.10	1.40	....	....	....	....	.12	.23	....	....	....	....	....	....	.51	....	....	.06	.20	.06	....	....	....	....	....	2.89
Fayette‖‡	Missouri	....	....	....	....	....	.60	.66	....	....	....	....	....	T.	....	T.	....	....	....	1.23	....	....	....	.26	....	.50	....	.33	....	....	....	....	3.58
Fulton	....do	....	....	....	....	....	1.38	....	.62	....	....	T.	....	....	.02	.02	....	....	....	....	....	1.38	.04	.02	.30	.01	.13	.60	....	....	....	....	4.52
Gorin	Mississippi	....	....	....	....	....	.31	.47	2.20	....	....	.05	....	.48	....	....	....	....	....	.57	....	....	....	....	.08	.26	.27	.01	....	....	....	....	4.70
Hannibal***	....do	.01	.02	....	....	.28	.68	.17	.69	....	....	.04	....	.02	.02	.01	....	....	....	T.	.51	.16	....	.12	.13	.02	.29	.18	....	....	T.	....	3.35
Hermann ‖	Missouri	....	....	....	....	....	.27	.80	.03	.23	....	....	.20	....	....	....	....	....	....	....	....	1.03	.15	....	.53	....	.02	1.10	.90	....	....	....	5.26
Jefferson City ‖	....do	....	....	....	....	....	.37	.78	.43	....	....	....	....	....	.03	....	.02	....	....	....	....	.85	.20	....	.05	....	.35	.25	1.20	....	....	....	4.53
Kirksville	Mississippi	....	....	....	....	....	.29	.38	2.33	....	....	....	....	.05	.34	....	....	....	....	....	.33	.47	....	....	....	.36	.20	....	....	....	....	....	4.75
Louisiana	....do	....	.10	....	....	.02	1.15	.05	.48	....	....	....	.55	....	.04	T.	....	....	....	....	T.	.65	.02	....	.22	T.	.43	.19	.24	....	....	....	4.14
Macon ‖	Chariton	....	....	....	....	....	.16	.21	1.18	.04	....	....	.02	....	.28	....	T.	....	....	T.	....	.93	....	....	.18	.02	.51	.12	.04	....	....	....	3.69
Mexico ‖	Mississippi	....	.05	....	....	....	....	.92	.30	....	....	....	.02	....	.10	....	....	....	....	....	....	.90	....	.09	.12	.01	.35	.18	.23	....	....	....	3.27
Pacific ‖	Meramec	....	....	....	....	....	.18	.79	.33	.10	....	....	.33	....	....	....	.04	....	....	....	T.	1.08	.34	....	.86	....	.32	.43	1.48	....	....	....	6.28
Palmyra ‖	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
St. Catharine	Grand	....	....	....	....	T.	.11	.56	2.70	....	....	T.	....	....	.40	T.	....	....	....	.02	.52	.45	....	T.	.06	.11	.35	.03	....	....	....	....	5.31
St. Charles	Missouri	....	....	....	....	....	.72	....	.50	....	....	....	.22	....	.05	....	....	....	....	....	....	.81	.07	T.	1.23	T.	.61	1.72	.12	....	....	....	6.05
St. Louis (1)***	Mississippi	....	....	....	....	.20	.84	T.	.48	....	....	.23	.39	....	T.	.01	....	....	....	.01	.03	1.11	.06	.03	.73	.09	.49	1.44	....	....	T.	....	6.14
St. Louis (2)	....do	....	....	....	....	.28	.66	.01	.44	....	....	.19	.23	....	.01	.01	....	....	....	.04	.04	.91	.08	.10	1.03	.21	.67	1.17	....	....	....	....	6.08
Shelbina	....do	....	....	....	....	....	.70	....	....	1.40	....	....	....	.25	....	....	....	....	....	....	1.20	....	....	....	....	....	.70	....	....	....	....	....	4.25
Steffenville	....do	....	T.	....	....	T.	.51	.05	1.85	....	....	.35	.03	....	.42	....	....	....	....	....	.60	.60	....	....	....	.05	.48	T.	.10	....	....	....	5.04
Union‖‡	Meramec	....	....	....	....	....	.15	.92	.26	.11	....	....	.35	....	....	....	....	....	....	....	....	1.35	.38	....	1.34	....	.50	.80	.78	....	....	....	6.94
Unionville	Chariton	....	....	....	....	....	.55	.25	1.50	....	....	....	....	T.	T.	....	....	....	....	T.	T.	....	....	....	....	.06	.40	.30	....	....	T.	....	3.06
Valley Park‖‡	Meramec	....	....	....	....	....	.94	.42	....	....	....	....	.07	....	....	T.	.07	....	....	....	T.	1.42	.24	....	1.28	....	.75	.96	.86	....	....	....	7.01
Warrenton ‖	Mississippi	....	....	....	....	....	.20	1.09	.05	....	....	....	.18	T.	....	....	....	....	....	....	.04	1.01	.03	....	.44	....	.03	.70	1.44	....	....	....	5.21
Keokuk, Iowa***	....do	.07	....	....	....	.77	.02	1.75	1.02	....	....	.01	T.	.34	.37	....	....	....	....	T.	.34	.09	....	T.	.04	.09	.22	T.	....	....	T.	....	5.13
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi	....	....	....	....	....	....	....	....	.36	....	....	1.02	....	.03	.05	.80	....	....	....	....	....	.56	.05	.95	.02	....	....	1.30	....	....	....	5.14
Caruthersville	....do	....	....	T.	....	....	T.	T.	.50	.85	....	....	T.	....	T.	....	....	T.	....	....	....	T.	1.07	.75	.92	....	.27	.32	1.72	....	.05	.68	7.13
Doniphan	Black	....	T.	....	....	....	.14	....	.41	.06	.44	.90	....	....	.10	....	....	T.	....	....	....	T.	2.30	.30	.50	....	....	.40	1.20	....	....	....	6.75
Jackson	Mississippi	....	.10	....	....	....	.11	....	.27	.06	....	....	1.30	....	....	....	.54	....	....	....	....	.09	....	.09	....	....	....	....	.89	....	....	....	3.45
Marble Hill	....do	....	....	....	....	....	.12	.44	....	....	....	....	....	....	.32	.38	....	....	....	....	....	.32	1.25	.20	1.15	....	....	1.20	....	....	....	....	5.38
New Madrid ‖	....do	....	....	.01	....	....	....	....	....	1.25	....	....	1.25	....	.05	....	....	....	.03	....	....	....	1.15	.30	.70	.06	....	....	2.90	....	....	.07	7.77
Parma	....do	....	.05	....	....	....	....	....	.50	....	....	....	1.76	....	.03	....	....	....	....	....	....	....	1.40	.34	.24	....	....	.32	2.08	....	....	.08	6.80
Patton (near)	....do	....	....	....	....	....	....	....	.82	....	....	.68	....	....	....	.72	....	....	....	....	....	.30	1.00	.35	.97	....	1.00	.39	....	....	....	....	6.23
Poplar Bluff ‖	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Vanduser	Mississippi	....	.08	....	....	....	....	....	.47	.11	....	1.34	....	....	.06	.08	....	....	....	....	....	.95	....	.39	.50	....	....	1.50	....	....	....	....	5.48
Cairo, Ill.***	....do	....	.06	....	....	T.	T.	T.	.71	.02	....	.49	.35	....	.16	T.	.27	....	....	T.	....	.17	.26	.24	.41	....	T.	.42	.66	....	.04	....	4.26
Ozark Plateau.																																	
Arcadia ‖	St. Francis	....	....	....	....	....	.02	.17	.09	.62	....	T.	1.06	....	.03	.01	.12	....	....	....	.01	.53	1.03	....	1.09	....	.01	....	1.41	....	....	....	6.20
Birchtree	Black	....	....	....	....	....	.40	....	.84	....	....	.30	.71	....	.08	....	....	....	....	....	....	.84	1.88	.45	1.00	....	....	.25	1.25	....	....	....	8.00
Bolivar	Osage	....	....	....	....	T.	.50	T.	.31	T.	....	T.	....	....	.73	....	....	....	....	.21	....	2.00	.88	T.	T.	T.	.56	1.54	.76	....	....	....	7.49
Dean	Neosho	....	....	....	....	.02	T.	....	.57	....	....	.25	....	T.	.52	.04	....	....	....	.11	....	2.66	2.30	1.21	....	....	T.	2.88	.67	....	....	....	11.23
Eldon	Osage	....	....	....	....	T.	.92	....	.78	.08	....	....	....	....	.05	.01	....	....	....	....	....	1.10	.20	.03	....	.24	.25	.72	....	....	....	....	4.38
Farmington	St. Francis	....	....	....	....	....	.32	.23	.60	....	....	....	1.02	....	.02	.05	.04	....	....	....	....	.54	.75	.17	.78	....	....	.63	.61	....	....	....	5.76
Gano	Meramec	....	....	....	....	....	.67	....	T.	....	....	T.	.50	....	.11	T.	.25	....	....	....	T.	.85	.73	.09	1.42	....	.03	2.66	.30	....	....	....	7.61
Goodland	Black	....	....	....	....	....	.35	....	.81	....	....	....	....	....	.90	....	....	....	....	....	....	....	....	.88	.70	....	.08	.42	.95	....	....	....	5.09
Hollister	White	....	....	....	....	.10	.20	....	....	....	.15	....	....	.48	....	....	....	....	.40	.20	....	1.50	2.10	1.50	....	....	....	1.20	....	....	....	....	7.83
Houston	Gasconade	....	....	....	....	....	....	....	.17	....	....	.14	.20	.59	....	.05	....	....	....	.09	....	.68	1.02	.25	1.01	....	....	1.31	.41	....	....	....	5.92
Koshkonong	Black	....	....	....	....	....	....	....	1.45	....	....	.52	.81	....	.30	....	....	.22	....	.08	....	.43	2.67	.55	.68	....	....	T.	.87	....	....	....	8.58
Lebanon‖‡	Osage	....	....	....	....	....	.20	....	.15	....	....	....	....	....	.40	....	.02	....	....	T.	.03	1.23	1.20	....	.30	....	.02	1.36	1.02	....	....	....	5.93
Lockwood	....do	....	....	....	....	....	.25	....	.20	....	....	....	....	T.	.40	....	....	....	....	....	....	1.83	1.06	.09	.11	....	.08	1.43	.97	....	....	....	6.42
Mountain Grove ‖	White	....	....	....	....	....	.08	T.	.06	....	....	....	.45	....	.51	....	....	....	.14	....	....	.35	1.90	.08	1.08	....	....	....	1.94	....	....	....	6.59
Neosho	Neosho	....	....	....	....	.08	.49	....	.66	....	....	.05	T.	T.	T.	....	....	....	....	....	....	2.00	1.41	.20	.10	....	T.	....	1.35	....	....	....	6.34
Rolla ‖	Meramec	....	....	....	....	T.	.74	....	.10	....	....	T.	.18	....	....	T.	....	....	....	....	....	1.79	.72	T.	.66	....	....	2.02	.42	....	....	....	6.63
Seymour	White	....	....	....	....	....	.22	....	.02	....	....	T.	.07	....	.74	.05	....	.14	....	.06	....	1.10	1.09	.19	1.13	....	....	1.95	.52	....	....	....	7.28
Springfield***	....do	....	....	....	....	.10	.46	.03	.25	T.	....	T.	....	.10	.22	T.	....	....	....	.02	.15	2.11	.51	.19	.07	T.	.14	3.00	....	....	....	....	7.35
Steelville‖‡	Meramec	....	....	....	....	....	....	.73	.32	....	....	....	.35	....	....	....	....	....	....	....	....	1.45	.95	....	1.13	....	.21	1.05	1.08	....	....	....	7.27
Tuscumbia‖‡	Osage	....	....	....	....	....	.82	.04	.52	....	....	....	T.	....	.18	....	.05	....	....	....	....	1.53	.43	....	.11	....	.62	.59	1.42	....	....	....	6.31
Southwest Plain.																																	
Amoret	Osage	....	....	....	....	....	.41	T.	T.	....	....	....	....	....	.09	....	....	....	....	....	1.05	.94	.18	.11	....	....	1.35	.29	....	....	....	....	4.42
Appleton City	....do	....	....	....	....	....	.46	T.	.61	....	....	....	T.	....	.01	.01	....	....	....	....	T.	.88	.38	.04	.02	.08	.79	.74	....	....	....	....	4.02
Clinton	....do	....	....	....	....	....	1.13	1.00	....	....	....	....	....	....	....	....	....	....	....	....	....	.90	.50	....	....	....	1.67	.60	.40	....	....	....	6.20
Harrisonville ‖	....do	....	....	....	....	....	.28	.22	....	....	....	....	....	....	....	.02	....	....	....	....	....	1.83	.05	....	.13	....	.29	.11	.07	....	....	....	3.00
Lamar ‖	Neosho	....	....	....	....	....	.12	.02	.18	....	....	....	.02	....	.33	....	....	....	....	....	.05	.75	.90	.03	.10	....	.10	.42	.50	....	....	....	3.52
Lamonte	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Marshall	....do	....	....	....	....	....	.30	....	.05	....	....	T.	....	....	T.	....	....	....	....	T.	.50	T.	....	.11	.15	T.	.48	.12	....	....	....	....	1.71
Nevada	Osage	....	....	....	....	....	.21	....	.82	....	....	....	....	T.	.09	.03	....	....	....	....	T.	.30	1.00	....	....	T.	.46	.32	....	....	....	....	3.23
Osceola‖‡	....do	....	....	....	....	....	.75	.25	....	....	....	....	....	....	.08	....	....	....	....	....	....	1.13	.55	....	....	.10	.53	.25	.38	....	....	....	4.02
Warrensburg	Missouri	....	....	....	....	....	.85	.23	....	....	....	....	....	....	....	....	....	....	....	....	1.70	....	....	.22	....	....	....	.10	....	....	....	....	3.10
Warsaw	Osage	....	....	....	....	....	1.10	....	.35	....	....	T.	T.	....	....	....	....	....	....	T.	T.	1.40	.60	.05	.18	.27	.43	.85	.15	....	....	....	5.38
Waverly ‖	Missouri	....	....	....	....	....	T.	.12	.77	....	....	....	....	....	T.	T.	.11	....	....	T.	....	1.60	....	....	.22	....	.35	T.	.09	....	....	....	3.26
Northwest Plateau.																																	
Avalon	Grand	....	....	....	....	....	.35	1.50	....	....	....	....	....	....	....	....	....	....	....	....	1.00	....	....	....	.15	....	.40	.05	.25	....	....	....	3.70
Bethany	....do	....	....	....	....	.25	.10	T.	.83	....	....	....	....	.25	T.	....	....	....	....	T.	T.	....	....	T.	....	....	.30	T.	....	....	T.	....	1.73
Chillicothe	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Conception	Missouri	....	....	....	....	T.	.14	T.	.45	....	....	....	....	.04	....	....	....	....	....	....	T.	....	....	T.	.04	T.	.31	....	....	....	.03	....	1.01
Edgerton	Grand	....	....	....	....	.30	.14	....	2.37	....	....	T.	....	.02	....	....	....	....	....	....	....	.52	....	T.	.05	T.	....	.02	....	....	....	....	3.42
Grant City	....do	....	....	....	.75	....	....	....	....	....	....	....	.34	....	....	....	....	....	....	....	....	....	....	....	....	....	.53	....	....	....	....	....	1.62
Kansas City***	Missouri	....	....	....	....	.06	.05	1.77	.35	....	....	.01	T.	T.	T.	.02	....	....	....	T.	.88	.13	....	.07	T.	T.	.18	.08	....	T.	....	....	3.60
Kidder ‖	Grand	....	....	....	....	....	.38	1.75	....	....	....	....	....	....	....	....	....	....	....	....	.48	....	....	....	....	....	....	.35	....	....	....	....	2.96
Lexington ‖	Missouri	....	....	....	....	....	.13	....	.56	....	....	....	....	....	....	.10	....	....	....	....	.60	.65	....	.02	.07	.01	.12	.13	....	....	....	....	2.39
Liberty	....do	....	....	....	....	....	.08	.77	1.90	....	....	.23	....	.02	T.	.06	....	....	....	T.	.39	.70	....	....	.07	....	.28	.20	....	....	....	....	4.70
Maryville ‖	....do	....	....	....	....	....	....	.01	.12	.05	....	....	T.	....	.04	.02	....	....	....	....	....	....	....	....	....	.03	.12	.41	....	....	....	.11	0.91
Oregon	....do	....	....	....	....	....	.18	....	.18	....	....	T.	....	....	....	....	....	....	....	....	T.	....	....	T.	....	T.	.29	T.	....	....	T.	....	0.65
St. Joseph***	....do	....	....	....	....	T.	.12	.20	.52	....	....	.05	T.	.01	T.	....	....	.01	....	....	.07	....	....	.02	.01	T.	.26	T.	....	....	T.	....	1.27
Tarkio	....do	....	....	....	....	....	....	....	....	....	....	....	....	.50	....	....	....	....	....	....	....	....	....	.05	....	....	.46	.10	....	....	.08	....	1.19
Trenton	Grand	....	....	....	....	....	.43	.11	1.62	....	....	.03	....	.10	....	....	....	....	....	T.	.48	....	....	.07	....	T.	.38	.09	....	....	T.	....	3.31

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. ‡ Separate dates of fall not recorded. *** Regular Weather Bureau station precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement.

Daily Temperatures for March, 1921.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§..........	Maximum...	73	67	54	77	78	44	70	49	48	59	69	50	74	64	71	63	77	86	88	80	42	50	54	63	73	71	40	39	54	58	52	62.5
	Minimum ...	34	41	29	32	42	35	35	34	28	39	47	41	40	50	46	33	38	47	54	67	37	39	36	41	50	51	34	18	19	29	31	38.7
Columbia.........	Maximum...	73	68	51	73	76	57	75	59	43	59	68	55	76	68	73	60	74	81	78	79	46	50	54	59	71	73	67	33	50	60	50	63.2
	Minimum ...	37	44	31	38	57	36	41	35	29	33	47	45	42	53	42	36	46	51	66	44	37	37	44	51	49	55	29	19	24	35	32	40.8
Fayette§§	Maximum...	65	52	73	78	50	68	57	45	57	63	53	72	63	68	59	76	81	76	76	41	48	51	59	70	70	64	33	48	56	48	50	60 3
	Minimum ...	30	50	28	33	50	33	38	33	28	31	42	43	38	45	40	31	40	43	65	40	34	33	40	50	46	56	28	16	22	32	30	37.7
Hannibal..............	Maximum...	70	66	46	73	75	55	68	56	41	56	66	58	72	71	72	55	71	76	80	80	46	48	52	57	64	75	70	33	47	60	48	61.5
	Minimum ...	37	42	29	32	55	38	39	35	30	34	43	45	46	51	43	38	46	44	67	46	37	38	40	48	48	48	28	18	26	37	34	40.1
Jefferson City §§.......	Maximum...	73	72	52	73	75	45	75	61	45	58	70	62	75	73	77	60	75	78	78	80	45	50	56	66	74	75	52	33	50	65	52	63.7
	Minimum ...	35	42	33	33	40	42	37	43	34	32	34	49	42	47	51	37	40	48	52	65	36	36	38	47	49	54	40	17	17	25	38	39.8
Kirksville	Maximum...	70	65	54	73	74	69	54	56	42	56	64	57	69	63	60	56	71	78	77	76	55	48	50	54	57	67	68	36	48	56	50	60.4
	Minimum ...	35	43	24	30	57	32	36	31	23	33	38	37	38	38	44	30	42	42	64	54	33	29	37	47	45	43	31	13	24	32	30	36.6
Louisiana	Maximum...	64	72	70	62	73	72	60	68	50	52	62	70	70	70	73	75	70	72	80	80	78	62	50	58	65	76	76	50	48	60	62	66.1
	Minimum ...	28	50	31	28	58	38	40	41	28	28	38	48	47	47	46	32	40	38	64	65	38	38	40	47	40	45	44	19	22	33	38	40.1
Macon §§......	Maximum...	70	67	53	74	75	41	65	44	46	58	64	57	74	67	66	59	75	84	80	79	42	51	54	58	68	70	40	40	51	60	53	60.8
	Minimum ...	35	45	25	27	39	33	34	40	22	26	37	41	40	51	46	31	36	43	51	65	34	31	35	41	49	47	35	14	16	28	32	36.4
Mexico §§.............	Maximum...	72	69	59	74	77	43	73	54	44	58	71	54	70	72	70	60	69	81	80	80	46	51	54	59	70	75	41	35	50	63	51	61.8
	Minimum ...	35	45	28	29	37	39	36	40	28	30	34	42	41	45	50	31	39	43	48	62	35	36	39	45	46	50	37	12	19	25	32	37.2
St. Catharine..........	Maximum...	67	66	56	73	75	66	55	55	41	54	63	59	68	64	60	54	69	77	77	77	58	48	53	56	63	67	67	34	47	57	53	60.6
	Minimum ...	35	41	25	32	55	31	36	33	24	31	40	36	35	48	43	32	40	45	60	56	33	30	45	47	46	47	30	15	22	32	29	37.2
St. Louis (1)..........	Maximum...	70	70	50	66	74	62	71	66	46	57	70	66	71	73	75	57	74	76	81	81	57	53	54	62	75	75	71	33	49	65	50	64.5
	Minimum ...	42	49	35	33	58	42	41	39	32	35	42	51	49	59	49	39	46	54	66	57	38	40	43	49	49	57	32	22	26	35	38	43.5
Unionville	Maximum...	66	64	55	75	74	65	50	52	42	50	62	58	60	53	58	56	68	78	77	74	58	52	50	52	62	68	62	35	52	50	46	59.0
	Minimum ...	31	42	22	30	55	30	34	32	20	30	40	34	33	44	42	28	44	55	55	56	30	21	35	44	44	42	30	12	20	34	28	35.4
Warrenton §§..........	Maximum...	77	68	56	72	73	45	73	74	42	59	71	62	75	74	76	60	59	81	80	85	45	50	56	60	75	76	51	33	50	66	51	63.6
	Minimum ...	37	45	30	32	39	43	38	42	30	28	36	50	45	51	54	36	40	47	50	66	35	35	38	45	42	53	51	17	19	26	36	39.9
Southeast Lowlands.																																	
Caruthersville	Maximum...	77	77	69	70	77	70	82	72	66	59	70	77	83	80	88	75	82	88	85	87	77	57	55	80	83	80	78	72	60	65	66	74.2
	Minimum ...	37	47	45	38	47	59	60	60	41	35	39	36	49	59	57	56	52	60	65	67	50	45	49	52	57	68	58	35	29	35	45	49.4
Doniphan..............	Maximum...	71	72	62	65	74	74	77	70	61	62	66	68	72	78	83	75	76	79	79	80	75	50	51	72	78	78	75	54	49	64	61	69.4
	Minimum ...	29	30	42	29	51	54	52	56	38	25	5	41	50	53	52	45	44	55	55	68	45	39	46	50	40	63	54	30	23	30	45	44.6
Jackson................	Maximum...	70	71	62	61	74	70	76	73	60	61	69	62	72	74	82	75	79	80	80	78	77	52	54	76	76	75	76	46	51	62	58	68.6
	Minimum ...	28	53	39	27	45	55	46	53	35	23	32	50	41	56	51	41	46	51	64	62	44	39	48	49	39	62	45	23	22	28	42	43.1
Poplar Bluff§§	Maximum...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum ...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Cairo, Ill.............	Maximum...	69	68	56	60	72	66	76	68	50	58	69	65	71	71	82	69	73	79	81	79	73	51	52	71	77	77	76	40	48	61	54	66.3
	Minimum ...	42	56	40	35	53	61	52	50	38	34	45	54	51	57	60	44	49	58	67	69	43	40	48	52	48	65	40	30	27	40	44	48.1
Ozark Plateau.																																	
Arcadia §§.............	Maximum...	71	70	56	65	73	67	74	63	50	58	67	68	74	77	82	62	81	81	80	80	46	54	55	68	77	75	71	39	51	63	56	66.2
	Minimum ...	28	30	36	27	34	51	44	45	31	21	25	45	38	42	47	40	38	45	48	65	44	38	39	46	40	47	64	24	20	26	38	38.9
Birchtree	Maximum...	74	73	62	74	74	75	74	68	58	51	63	63	73	77	83	75	79	81	78	78	64	48	49	66	78	75	73	39	50	63	58	67.7
	Minimum ...	31	48	37	34	51	47	48	52	31	26	42	47	47	52	53	42	42	54	62	62	36	36	42	47	41	61	39	23	18	34	36	42.6
Eldon..................	Maximum...	58	55	53	58	68	66	81	50	51	65	70	67	76	79	73	77	86	90	77	81	66	51	55	66	79	82	66	57	50	52	51	66.3
	Minimum ...	32	30	28	30	52	33	36	32	25	24	35	44	39	50	46	34	36	45	60	65	35	32	40	45	43	50	25	14	14	30	27	36.5
Farmington............	Maximum...	71	67	64	64	74	65	74	66	51	45	66	64	72	74	80	72	72	68	78	78	70	45	50	61	78	74	67	38	53	61	51	65.0
	Minimum ...	33	57	34	29	52	44	44	51	30	24	38	50	43	56	53	36	40	42	62	63	38	37	42	47	42	63	38	21	19	36	30	41.9
Hollister..............	Maximum...	70	66	62	70	68	74	78	75	55	60	55	60	72	68	70	66	61	85	85	80	79	48	59	67	75	75	70	45	54	62	60	66.6
	Minimum ...	34	35	28	38	40	43	36	41	25	25	32	40	38	38	44	33	38	44	55	56	40	30	36	44	49	50	34	18	15	40	50	37.7
Koshkonong...........	Maximum...	75	73	63	70	74	75	77	71	60	60	65	64	75	77	84	76	74	82	76	79	75	46	50	69	79	77	76	45	53	64	56	69.0
	Minimum ...	40	54	40	34	52	50	47	51	34	29	43	49	48	54	56	46	48	5	62	64	41	37	43	46	48	61	44	27	21	35	38	45.2
Lebanon §§...........	Maximum...	73	70	54	72	73	71	75	69	54	70	71	72	75	72	78	67	80	84	81	78	43	49	62	65	77	75	43	33	43	65	56	66.1
	Minimum ...	37	39	31	31	40	39	41	44	28	27	30	40	49	52	52	37	37	50	52	53	38	34	36	44	48	57	39	21	20	21	31	38 6
Mountain Grove §§....	Maximum...	71	65	67	69	73	71	73	62	48	53	57	65	71	75	80	85	80	80	75	76	46	48	53	58	61	63	51	37	54	63	64	64.3
	Minimum ...	35	44	36	35	38	41	39	42	28	27	31	38	43	46	52	38	40	46	52	48	41	36	39	43	46	48	51	21	20	22	34	38.8
Neosho................	Maximum...	72	70	66	72	71	68	73	71	50	60	64	65	70	71	77	70	82	86	81	81	76	45	55	63	76	73	42	37	55	63	52	66.4
	Minimum ...	35	47	30	38	59	41	58	41	33	29	48	42	46	47	62	41	48	47	62	61	37	37	43	53	46	41	36	24	22	37	33	42.9
Rolla	Maximum...	73	70	58	71	73	72	74	72	55	60	70	68	76	75	81	81	78	83	82	82	75	50	51	61	77	75	73	38	52	65	60	68.7
	Minimum ...	40	55	33	36	57	43	41	42	32	29	41	49	45	53	55	39	44	50	65	64	36	37	44	49	48	59	36	20	21	30	34	42.9
Springfield	Maximum...	70	65	57	71	71	61	73	66	46	57	62	62	71	69	76	62	77	82	72	78	53	44	54	59	74	73	69	32	49	61	48	63.4
	Minimum ...	42	50	37	43	55	40	41	35	30	30	46	49	50	52	50	40	47	54	62	53	35	35	42	49	48	60	28	20	21	35	32	42.3
Southwest Plain.																																	
Amoret................	Maximum....	73	68	58	77	72	56	72	67	53	60	67	61	67	65	72	72	78	85	76	75	48	45	52	65	73	72	68	33	52	56	52	64.2
	Minimum,...	38	48	39	37	39	34	36	35	28	32	41	38	43	43	45	40	42	42	62	48	31	33	42	48	48	54	28	19	19	33	28	38.3
Appleton City.........	Maximum...	71	68	58	71	71	66	68	67	50	59	66	58	69	63	72	67	74	85	78	76	56	47	53	64	73	70	70	36	51	58	51	64.1
	Minimum ...	39	51	33	38	58	36	39	37	30	31	44	44	43	51	52	37	41	49	61	56	36	35	45	52	48	53	30	21	23	36	30	41.5
Clinton	Maximum...	72	70	68	70	75	68	71	67	50	63	62	58	73	65	73	68	77	87	83	79	60	50	53	66	70	73	71	36	53	58	56	65.8
	Minimum ...	33	37	31	36	57	35	36	40	30	36	40	36	43	48	45	48	43	49	65	57	37	35	45	50	48	54	30	21	25	35	30	40 5
Harrisonville §§	Maximum...	74	68	55	76	72	46	71	49	50	59	67	52	73	57	63	68	77	85	72	74	39	46	54	66	73	70	33	38	52	55	53	60.9
	Minimum ...	36	40	30	31	45	36	34	41	28	29	33	41	40	52	49	47	41	....	....	....	....	....	....	51	49	52	32	19	18	26	29	ᶠ37.2
Lamar §§	Maximum...	73	72	63	73	75	60	71	62	53	63	61	66	68	67	76	66	81	86	74	79	40	45	56	63	73	72	42	37	56	61	52	64.2
	Minimum ...	37	51	32	40	57	39	36	58	30	29	43	42	45	48	52	39	45	50	62	65	35	35	41	49	48	57	35	21	23	35	30	42.2
Lamonte...............	Maximum...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum ...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Marshall..............	Maximum...	73	68	58	....	76	70	74	69	46	58	68	57	77	68	65	60	75	84	78	79	65	50	52	61	66	73	69	38	50	58	52	ᵃ64.6
	Minimum ...	36	48	31	....	56	35	42	36	29	33	47	40	40	52	40	39	40	42	65	64	36	33	41	51	50	57	30	18	24	34	31	ᵃ40.7
Nevada................	Maximum...	72	68	59	73	71	64	71	68	50	60	66	57	69	65	72	66	75	85	74	78	57	45	55	65	73	72	69	35	57	54	50	64.4
	Minimum ...	41	51	32	42	58	36	40	37	31	33	43	41	42	49	54	38	48	47	63	56	35	35	44	50	56	56	30	21	24	36	30	41.9
Warrensburg	Maximum...	73	68	74	74	75	44	71	40	50	60	70	76	71	69	67	78	88	78	81	41	50	55	60	65	73	71	39	38	50	56	....	ᵃ63.5
	Minimum ..	40	46	30	45	41	34	38	37	29	29	40	41	41	35	40	40	51	57	66	36	35	35	46	48	51	50	33	19	20	29	30	39.2
Warsaw................	Maximum...	72	70	62	75	74	68	72	66	72	59	64	58	72	70	75	67	78	86	81	81	61	59	54	63	75	74	71	35	51	61	62	67.4
	Minimum ...	29	55	30	38	60	36	40	36	29	33	45	45	45	55	50	40	44	50	67	60	35	36	46	52	52	55	30	20	23	38	32	42.1
Northwest Plateau.																																	
Chillicothe	Maximum...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
	Minimum ...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	......
Grant City............	Maximum...	63	65	54	77	60	70	69	48	44	58	62	52	56	50	60	58	75	87	79	78	52	56	54	67	73	73	72	40	56	45	43	61.2
	Minimum ...	32	38	23	45	32	35	38	31	22	36	38	31	36	38	41	39	48	48	53	51	26	24	38	38	48	48	29	12	25	37	26	35.7
Kansas City	Maximum...	72	64	53	75	73	46	62	56	48	58	68	56	68	60	64	64	74	85	76	74	40	45	53	67	70	72	62	37	52	52	52	61.2
	Minimum ...	48	46	36	43	46	34	38	35	27	35	46	37	39	43	41	39	51	55	66	40	34	34	44	49	55	56	26	18	26	38	30	40.6
Kidder §§.............	Maximum...	68	58	57	59	55	68	64	49	51	57	57	63	64	52	58	74	72	72	72	40	48	50	63	68	73	69	34	38	44	39	45	57.5
	Minimum ...	44	43	26	27	54	36	33	28	23	23	31	34	40	43	42	36	47	60	52	33	30	33	31	43	45	48	34	15	26	28	25	36.0
Lexington §§..........	Maximum...	68	54	76	76	45	56	46	47	58	67	45	73	58	69	62	76	85	79	77	47	49	51	65	73	70	53	37	50	59	52	45	60.3
	Minimum ...	42	50	30	32	59	35	39	44	27	33	41	39	37	48	56	55	42	48	65	37	34	36	43	41	52	34	29	19	25	35	30	39.9
Maryville §§	Maximum...	64	61	49	74	79	49	47	42	51	59	62	48	50	49	56	62	74	84	80	69	69	51	48	65	70	69	36	37	53	45	48	58.1
	Minimum ...	35	39	24	24	43	30	30	33	14	14	32	27	29	33	35	33	33	44	49	62	24	22	25	39	41	48	25	11	11	22	24	30.8
Oregon................	Maximum...	68	63	49	77	77	52	49	47	46	59	60	53	60	50	57	61	74	85	81	71	49	52	50	66	70	71	68	36	54	46	48	59.6
	Minimum ...	42	41	27	40	49	31	34	30	18	34	41	29	34	36	43	31	45	49	62	47	25	30	41	43	48	50	25	14	24	33	26	36.4
St. Joseph.............	Maximum...	68	63	51	76	77	44	53	45	49	59	61	46	65	53	59	62	76	84	78	72	43	49	52	66	70	71	59	38	52	46	50	59.3
	Minimum ...	45	41	31	42	42	34	39	32	22	37	41	32	36	38	42	37	49	52	66	39	3	32	43	46	54	55	23	16	26	36	29	38.4
Trenton	Maximum...	67	61	50	74	73	61	51	53	42	55	62	57	63	55	57	55	67	76	77	74	51	50	53	60	63	68	66	34	47	51	47	58.7
	Minimum...	35	42	27	35	44	34	38	33	22	33	40	37	36	42	46	35	44	47	64	51	32	30	41	43	49	47	30	15	24	32	29	37.3

ᵃ, ᵇ, ᶜ, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXV. COLUMBIA, MO., APRIL, 1921. No. 4.

GENERAL SUMMARY.

April, 1921, in Missouri, was wetter than usual, but moderate temperatures prevailed, as a rule. One cold spell occurred, and killed most of the fruit remaining after the March freeze.

There were a few local hail storms, and windstorms. Except the Black River, in the southeastern part of the State, which went out of banks on or about the 25th, there was no special flood damage.

Farm work, particularly preparing fields for corn planting, was delayed by wet soil. On the other hand the weather was generally favorable for winter wheat, meadows, and pastures.

TEMPERATURE.

The monthly mean temperature for the State as a whole, 66 stations reporting, was 56.0°. The departure from the normal for 64 stations having 10 or more years' record was plus 0.9°. The month was cooler than normal in the Ozark Plateau, about normal in the southwestern plain, and about 1.5° warmer than usual in the other three divisions. The first 10 days were continuously warm but after that cool and warm spells of from 2 to 5 days duration followed each other quite regularly. The highest day temperatures, ranging between 85° to 91°, occurred on the 23d, 24th, and 25th. The coldest spell covered the 16th, 17th, and 18th, when, especially on the last two dates, a general freeze obtained.

PRECIPITATION.

The average precipitation for the State, 83 stations reporting, was 5.37 inches. The departure from the normal for 74 stations having 10 or more years' record was plus 1.52 inches. There was an excess of moisture in all sections. There were four distinct rain periods, 5th to 9th, 13th to 17th, 20th to 23d, and 25th to 30th. The greatest monthly fall was 8.42 inches, at Arcadia, and the least was 1.86 inches, at Conception. The greatest fall in any 24 consecutive hours was 4.20 inches, at Birchtree.

From about the 26th to the 28th the Black River, in the southeast, went out of banks, flooding the lowlands. About 100 families were forced from homes, and other damage was done, but no lives were lost.

There was a general snow on the 15-16th. Over the northwestern sections the ground was covered to depths of from 2 to 6 inches; in Buchanan, Holt, and Atchison counties it was from 7 to 12 inches deep.

WIND.

The prevailing winds were from the south. The total number of miles, 8 stations equipped with anemometers reporting, was 8,568 miles, or an average hourly movement of 12.0 miles. Quite high winds prevailed on the 16th, and 25th. During the afternoon of the 26th, a small tornado crossed a small section in the northern part of Macon county; several barns and other outhouses were blown down.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well-placed stations with sunshine recorders reporting, was 248, or 63 per cent of the possible and about 2 per cent above the normal.

MISCELLANEOUS PHENOMENA.

Frost, light—11th, 19th, and 29th. Heavy—1st, 10th, 11th, and 18th. Killing—1st, 10th, 11th, and 18th.

Hail—6th, 25th, and 28th.

Halos, solar—2d, 3d, 4th, 5th, 7th, 11th, 12th, 15th, 22d, 24th, 29th, and 30th. Lunar—14th, 19th, 20th, 21st, 24th.

Thunderstorms—6th, 7th, 8th, 15th, 16th, 25th, 26th, 27th, and 29th.

STORM DAMAGE.

St. Louis: A thunderstorm prevailed from about 6:40 p. m. to after 7 p. m., April 25th. The highest velocity for five minutes was 33 miles, from the north. Lightning was severe; and 1.07 inches of rain fell within 34 minutes. Three homes were struck by lightning, according to the city newspapers; the total damage was about $400. Slight damage was done to the wire systems of the telephone companies, and Union Electric Company. The hailstones were small and melted immediately after falling.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.98	78	60	241	61	7,084	9.8	39	ne.	16
Hannibal	29.97	71	..	...	..	8,210	11.4	38	ne.	16
Kansas City	29.95	69	56	281	71	9,817	13.6	45	n.	16
St. Joseph	29.92	73	53	264	66	7,975	11.1	33	sw.	20
St. Louis	29.98	69	54	245	62	11,914	16.5	48	s.	25
Springfield	29.99	75	60	208	53	9,500	13.2	39	se.	20
Cairo, Ill	30.03	76	54	...	..	6,849	9.5	42	e.	16
Keokuk, Iowa	29.97	72	56	251	63	7,194	10.0	49	w.	25

COMPARATIVE DATA FOR APRIL.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	57.9	+2.8	91	20	1.83	-1.89	.....	.....	5	.....	.....	.....
1889	55.7	+0.6	90	26	2.52	−1.20	.....	.....	8	.....	.....	.....
1890	56.2	+1.1	93	24	3.17	−0.55	.....	.....	8	.....	.....	.....
1891	56.8	+1.7	93	15	3.90	+0.18	.....	.....	9	.....	.....	.....
1892	53.1	−2.0	88	26	5.66	+1.94	4.25	.....	11	9	8	13
1893	53.9	−1.2	95	19	7.84	+4.12	5.50	.....	12	8	9	13
1894	56.1	+1.0	93	20	3.17	−0.55	2.49	T.	8	12	10	8
1895	57.9	+2.8	100	24	1.95	−1.77	2.88	T.	7	14	8	8
1896	61.9	+6.8	92	17	3.51	+0.21	3.00	0.0	9	11	12	7
1897	51.4	−0.7	88	21	4.55	+0.83	3.50	T.	10	10	11	9
1898	52.5	−2.6	90	14	3.65	−0.07	3.25	T.	10	12	9	9
1899	54.0	−1.1	96	6	3.70	−0.02	3.76	3.8	8	12	9	9
1900	56.7	+1.6	89	21	3.36	−0.36	3.82	0.7	9	11	10	9
1901	53.3	−1.8	94	24	2.85	−0.87	2.23	1.8	8	14	7	9
1902	53.9	−1.2	95	19	2.66	−1.06	4.35	T.	11	13	11	6
1903	55.9	+0.8	91	26	3.54	−0.18	4.06	1.2	9	11	10	9
1904	49.0	−6.1	84	19	5.75	+2.03	6.10	2.7	9	15	6	9
1905	54.9	−0.2	92	20	3.19	−0.53	4.00	0.3	6	14	8	8
1906	59.5	+4.1	93	22	2.24	−1.41	2.45	0.0	8	17	7	6
1907	48.7	−6.4	89	16	3.43	−0.29	2.75	T.	8	11	8	11
1908	56.6	+1.5	90	18	5.30	+1.58	3.30	T.	11	11	8	11
1909	54.8	−0.3	93	19	4.35	+0.63	3.80	T.	8	13	9	8
1910	54.8	−0.3	95	21	3.51	−0.21	3.50	0.9	11	12	7	11
1911	53.5	−1.6	89	20	4.99	+1.27	4.27	T.	10	12	8	10
1912	56.0	+0.9	97	24	5.98	+2.26	4.50	0.7	10	13	7	10
1913	56.2	+1.2	94	25	3.33	−0.45	3.90	T.	7	16	5	9
1914	55.2	+0.1	91	18	3.14	−0.74	3.00	T.	8	12	7	11
1915	61.9	+6.5	96	18	2.03	−1.82	2.08	T.	7	16	8	6
1916	53.5	−1.8	93	21	3.23	−0.69	2.35	1.9	10	11	8	11
1917	53.2	−2.3	89	19	5.97	+2.02	4.80	1.2	12	12	6	12
1918	50.8	−4.4	93	19	5.10	+1.24	3.50	0.9	11	12	6	12
1919	55.3	+0.3	94	20	3.01	−0.64	3.25	T.	9	12	7	11
1920	50.2	−4.7	89	4	3.95	+0.15	2.98	4.8	11	11	7	12
1921	56.0	+0.9	91	19	5.37	+1.52	4.20	1.1	10	13	7	10

Climatological Data for April, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	56.2	+1.8	88	23	28	17	40	4.84	+1.57	1.85	1.0	11	17	0	13	nw.	O. K. Benecke
Clifton Hill	Randolph	731	22	55.7	+2.1	84	23	29	† 9	40	4.27	+0.93	2.00	T.	12	12	10	8	......	L. S. Harlan.
Columbia	Boone	748	31	55.8	+1.5	86	23	28	16	42	5.51	+1.81	1.52	T	15	8	12	10	s.	U. S. Weather Bureau.
Downing	Schuyler	878	11	54.8	.....	84	24	24	17	39	5.55	+1.88	2.30	2.0	12	17	6	7	s.	E. E. St. Clair.
Fayette	Howard	661	38	54.4	−0.5	83	23	27	† 1	47	6.19	+2.86	2.97	0.6	9	....	....	....	......	L. W. Jacobs, jr.
Fulton	Callaway	818	29	55.9	+1.5	82	†23	28	†11	42	7.13	+3.04	2.58	T.	14	10	15	5	se.	Westminster College.
Gorin	Scotland	700	34	....	.....	..	..	..	..	..	6.93	+3.11	3.66	T.	11	8	5	17	sw.	J. W. Pelham.
Hannibal	Marion	534	37	55.8	+2.2	83	25	29	17	34	4.58	+1.33	1.37	T.	13	8	9	13	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	88	55.4	−1.0	85	23	29	17	42	5.81	+2.22	1.72	1.0	14	17	2	11	s.	Miss Emma Swift.
Kirksville	Adair	969	39	54.2	+2.3	82	24	24	17	46	5.63	+2.17	1.53	4.5	8	18	2	10	s.	Prof. J. S. Stokes.
Louisiana	Pike	469	40	55.9	+2.2	82	26	26	† 1	38	7.31	+2.26	2.55	0.8	11	17	2	11	s.	J. T. Farrell.
Macon	Macon	875	28	55.2	+1.3	85	†23	26	17	41	5.38	+2.51	1.84	0.2	11	10	6	14	sw.	W. C. Brown.
Mexico	Audrain	800	43	55.5	+1.2	85	23	26	17	41	5.86	+2.39	2.02	T.	11	15	3	12	s.	Mrs. Abbie Snoddy.
Palmyra	Marion	652	22	....	.....	..	..	..	..	..	....	......	....	....	..	....	....	....	......	W. B. Markell.
St. Catherine	Linn	800	12	53.4	.....	80	†23	25	† 9	41	5.03	......	2.00	4.0	10	12	10	8	s.	L. D. Baker.
St. Charles	St. Charles	456	43	58.2	+2.6	87	5	28	18	36	4.78	+1.26	1.88	0.2	10	9	12	9	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	83	58.1	+2.3	82	25	30	17	30	7.01	+3.49	2.76	T.	13	12	10	8	s.	U. S. Weather Bureau.
St. Louis (2)	....do	578	9	57.0	+1.4	81	†24	31	†16	31	6.00	+1.54	2.21	0.1	12	9	11	10	s.	St. Louis University.
Shelbina	Shelby	779	28	....	.....	..	..	..	..	..	5.11	+1.92	1.65	T.	6	....	....	....	......	S. G. Parsons.
Steffenville	Lewis	650	28	56.0	+2.8	84	24	27	† 9	39	6.00	+2.60	2.75	T.	13	12	10	8	s.	Frank Hall.
Unionville	Putnam	1,062	28	53.6	+2.5	83	24	20	17	37	5.35	+1.86	2.35	4.0	10	14	4	12	s.	Geo. W. Davis.
Warrenton	Warren	816	31	56.4	+1.6	84	23	28	17	36	5.57	+1.35	1.78	0.5	11	4	12	14	s.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	49	54.7	+2.7	80	25	28	16	30	3.91	+0.57	0.91	0.9	12	5	12	13	sw.	U. S. Weather Bureau.
Section means and	extremes	.....	..	55.6	+1.7	88	23	20	17	47	5.62	+2.03	3.66	0.9	11	12	7	11	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	63.6	+3.5	91	†25	23	18	42	6.07	+2.07	1.50	T.	9	17	3	10	e.	H. E. Averill.
Doniphan	Ripley	344	17	58.8	+0.8	84	†23	27	18	39	4 87	−0.77	2.10	0	11	13	12	5	s.	W. W. Martin.
Jackson	Cape Girardeau	428	31	56.8	−0.1	83	25	26	18	44	5.55	+0.96	2.02	0	9	10	4	16	s.	John J. Putz.
Marble Hill	Bollinger	470	27	58.3	+1.8	84	25	27	18	39	7.11	+2.60	2.34	T.	9	13	13	4	s	R. A. DeWitt.
Parma	New Madrid	281	..	....	.....	..	..	..	..	..	4.86	......	1.52	0	8	....	....	....	......	J. E. Pearce.
Patton (near)	Bollinger	500	11	....	.....	..	..	..	..	..	7.46	+3.77	2.65	0	7	....	....	....	......	George F. Ellis.
Poplar Bluff	Butler	329	17	61.8	+2.5	85	23	30	† 4	42	6.29	+1.59	2.47	0	7	11	9	10	......	....
Vanduser	Scott	304	..	....	.....	..	..	..	..	..	6.53	......	1.63	0	10	....	....	....	......	M. L. Armstrong.
Cairo, Ill.	Alexander, Ill	359	49	59.0	+0.7	83	25	34	17	39	3.67	+0.10	1.23	T.	12	9	8	13	s.	U. S. Weather Bureau.
Section means and	extremes	....	..	59.7	+1.5	91	25	26	18	44	5.82	+1.47	2.65	T.	9	12	8	10	s.	
Ozark Plateau.																				
Arcadia	Iron	926	43	56.6	+1.2	84	23	26	11	41	8.42	+3.71	4.02	T.	8	13	7	10	s.	Arcadia College.
Birchtree	Shannon	1,000	28	56.4	−0.5	89	24	28	†11	38	7.20	+2.40	4.20	0	8	16	5	9	s.	V. H. Kirkendall
Bolivar	Polk	1,071	32	^{d}57.0	+0.9	84	23	28	17	35	3.87	−0.11	1.31	T.	9	19	4	7	s.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	56.2	−1.1	84	23	24	17	47	6.01	+1.84	1.30	0	10	19	4	7	sw.	H. E. Dean.
Eldon	Miller	934	22	55.4	−0.3	87	23	24	17	48	6.04	+1.51	1.75	0.2	13	8	11	11	s.	E. H. Shepherd.
Farmington	St. Francois	918	24	55.6	−1.7	80	†15	28	†11	42	7.26	+3.17	3.86	T	10	8	17	5	sw.	Robert Forsyth.
Gano ‡‡	Dent	1,250	20	55.4	−0.4	83	23	26	17	35	5.72	+0.90	2.25	T.	10	12	8	10	s.	A. C. Leach.
Goodland	Iron	1,000	28	56.2	+1.6	84	†23	23	† 1	47	8.00	+2.72	4.00	0	7	17	6	7	s.	F. M. Adams.
Hollister	Taney	735	18	55.8	−4.0	80	† 2	26	17	40	7.35	+3.03	2.30	0	10	18	5	7	se.	W. P. Chapmann.
Houston	Texas	1,280	29	....	.....	85	23	..	..	..	5.48	+0.84	1.87	0	12	13	7	10	sw.	Walter T. Beard.
Koshkonong	Oregon	958	20	^{a}58.3	+0.5	85	23	30	17	37	7.84	+2.71	3.31	0	11	^{a}12	^{a}5	^{a}12	sw.	R. M. Hitt.
Lebanon	Laclede	1,265	34	54.5	−1.4	84	23	26	18	41	6.13	+1.84	1.71	0	12	14	3	13	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	56.4	+0.2	85	23	27	17	39	5.16	+1.50	1.45	T.	9	15	3	12	sw.	C. S. Crow.
Mountain Grove	Wright	1,463	25	53.6	−0.8	84	23	27	†11	39	7.42	+2.38	3.17	0	7	8	9	13	s.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	57.0	−1.0	83	†23	26	†17	40	4.74	+0.51	2.00	0	9	^{a}16	^{a}5	^{a}8	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	57.6	+2.6	85	23	28	17	39	6.77	+1.99	2.28	0.2	10	12	11	7	s.	Prof. Elmo G. Harris.
Seymour	Webster	1,642	16	54.6	−0.8	81	23	22	17	36	5.16	+1.20	1.75	T.	11	13	7	10	s.	Ira H. Bailey.
Springfield	Greene	1,350	42	55.6	−0.1	82	23	27	17	29	4.79	+0.93	1.83	T.	11	15	4	11	s.	U. S. Weather Bureau.
Section means and	extremes	.....	..	56.0	−0.3	89	24	22	17	48	6.30	+1.84	4.20	T.	10	14	7	9	s.	
Southwest Plain.																				
Amoret	Bates	831	15	55.2	+0.4	82	23	25	17	40	4.61	+0.46	1.64	T.	9	15	6	9	se.	Darby Fruit Farm.
Appleton City	St. Clair	853	29	56.0	+0.1	82	23	28	17	31	5.09	+0.82	1.81	0.1	12	11	^{a}12	7	se.	W. G. Bigelow.
Clinton	Henry	765	31	^{a}55.8	0.0	85	24	28	17	47	5.73	+1.69	1.52	0	10	^{a}12	8	^{a}9	sw	A. E. Derwent, M. D.
Harrisonville	Cass	904	46	54.6	+0.6	83	24	27	17	42	4 65	+1.25	1.90	0	9	10	6	14	se.	John H. Patterson.
Lamar	Barton	980	40	55.4	−1.3	83	†23	26	17	47	5.53	+1.38	1.45	0	12	14	1	15	ne.	Joe W. Springer.
Lamonte	Pettis	867	35	56.1	+0.6	84	23	27	†16	41	3.94	+0.18	1.00	0	12	14	5	11	se.	George B. Wagner.
Marshall	Saline	779	32	^{a}55.6	+1.1	84	23	28	†11	40	4.21	+0.51	1.32	0.5	8	17	4	9	sw.	Dr. W. H. Black.
Nevada	Vernon	862	30	56.2	+1.1	83	23	28	17	35	5.69	+1.97	1.57	T.	9	16	6	8	s.	George A. Kaupp.
Warrensburg	Johnson	878	43	^{a}56.6	+0.5	88	24	28	16	41	4.61	+1.39	1.50	T.	6	....	....	....	..	S. I. Major.
Warsaw	Benton	687	26	57.4	+1.4	84	†23	28	11	38	6.35	+2.16	1.95	T.	12	11	15	4	sw.	J. R. Smith, M. D.
Section means and	extremes	.....	..	55.9	+0.4	88	24	25	17	47	5.04	+1.18	1.95	0.1	10	13	7	10	se.	
Northwest Plateau.																				
Avalon	Livingston	730	24	55.7	+2.0	83	†23	28	† 9	34	4.85	+1.64	1.60	0	8	16	9	5	sw.	F. G. Ashbaugh.
Bethany	Harrison	916	30	55.4	+4.2	85	23	21	17	44	3.67	+0.71	1.40	6.0	8	13	4	13	sw.	M. H. Moulton.
Chillicothe	Livingston	779	13	....	.....	..	..	..	..	..	....	......	....	....	..	....	....	....	......	G. L. Fellinger.
Conception	Nodaway	980	37	54.6	+2.3	85	23	22	17	42	1.86	−0.85	0.51	6.0	7	11	12	7	sw.	Fr. Adelhelm Hess.
Edgerton	Platte	856	9	^{a}56.0	.....	86	23	23	†16	45	4.29	+0.77	2.30	3.0	8	16	3	11	sw	Fred L. Stiff.
Grant City	Worth	1,134	30	....	.....	..	..	..	..	..	....	......	....	....	..	....	....	....	......	J. E. Engle.
Kansas City	Jackson	963	32	55.9	+1.6	83	23	28	16	29	2.71	−0.58	0.81	0.6	11	13	9	8	s.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	34	52.2	−0.7	82	23	21	18	46	2.90	+0.11	1.25	1.2	8	16	5	9	nw.	Linn Terry.
Lexington	Lafayette	688	39	56.6	+2.3	85	24	27	17	38	4.24	+0.92	2.00	0.7	8	12	8	10	s.	Edwin G. Loomis.
Liberty	Clay	859	31	56.2	+0.7	85	23	25	17	35	3.32	+0.22	1.12	T.	9	14	8	8	sw.	James H. Harris.
Maryville	Nodaway	1,036	27	51.0	+0.4	86	23	19	17	51	3.03	+0.33	1.25	6.0	10	13	8	9	s.	J. R. Brink.
Oregon	Holt	1,048	66	54.8	+2.1	85	23	20	17	38	2.48	−0.77	1.40	10.0	5	13	6	11	s.	Tom Curry.
St. Joseph	Buchanan	967	49	55.4	+1.6	86	23	24	17	36	3.21	+0.34	1.35	7.0	10	12	9	9	s.	U. S. Weather Bureau.
Tarkio	Atchison	916	28	55.2	+1.9	86	23	24	16	43	3.60	+0.64	1.20	12.0	10	17	4	9	sw.	John F. Frazier.
Trenton	Grundy	822	26	53.8	+0.6	80	24	24	17	29	6.73	+3.87	3.82	4.0	10	15	7	8	s.	W. H. Estes.
Section means and	extremes	.....	..	54.8	+1.5	86	23	19	17	51	3.61	+0.57	3.82	4.3	9	14	7	9	s.	
State means and	extremes	.....	..	56.0	+0.9	91	25	19	17	51	5.37	+1.52	4.20	1.1	10	13	7	10	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean. Anderson: of Gano. Salem, R. F. D. No. 5.

Daily Precipitation for April, 1921.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville ‖	Missouri						.10	.18	.12					.27	.13	.27	1.63	.03				.06	.76				.94	.18	.03		.92		4.72
Brunswick ‖	Grand						.06	.15	.54					.12	.10	.06	1.85	.05									1.46	.17			.28		4.84
Clifton Hill	Chariton					T.	.33		.16	T.				.12	T.	.08	2.00	.02				.07	.04			1.00	.33	.11		T.	.01		4.27
Columbia***	Missouri					.05	.33		.39	T.				.18	.11	1.31	.22	T.			.10	.73	.02			1.29	.47	.03	.13		.15		5.51
Downing	Mississippi						.58	.18	.52					.06	.09	.15	2.30	.05								.80	.35	.27	.20				5.55
Fayette ‖‡	Missouri						.25		.20					.32		2.97	.06		.01		.02	.67				.95	.75				T.		6.19
Fulton	do						.66		.01					.12	.25		2.58	.01			.10	.95	.20			.50	1.35	.29	.10				7.13
Gorin	Mississippi						.62	.47						.04	.10		3.66				.01	.12	.25			1.00	.41	.25					6.93
Hannibal***	do					T.	.45		.13	T.				.05	.31	.95	.42	T.			.03	.87	.03			.59	.72	.01			.02		4.58
Hermann ‖	Missouri						.22	.05		.02					.35	.05	.90	T.				.06	.85				.88	1.13	.12	.05			4.68
Jefferson City ‖	do						.22	.05	.03	.05				.05	.35	.07	1.72	.02				.29	1.18				.93	.75	.10				5.81
Kirksville	Mississippi						.68		.50					.15		1.01	1.53	.45								.91	.40						5.63
Louisiana	do						.42	.02	.16	T.					.85		1.20	.04			.10	2.55					1.45	.45	.07				7.31
Macon ‖	Chariton						.63	.15	.84					.08	.12	.06	1.84					.04	.02				1.33	.27					5.38
Mexico ‖	Mississippi						.52	.15	.16						.35	.02	2.02					.11	.75				1.02	.73			.03		5.86
Pacific ‖	Meramec						.22	.15		.07					.65	.01	.66	.02				.16	.97	.35			1.10	.77	.03	.18			5.34
Palmyra ‖	Mississippi																																....
St. Catherine	Grand						.23	.28	.60					.18	T.	2.00	.47	T.			T.					.85	.15	.15			.12		5.03
St. Charles	Missouri						.11	.11							.77		.55	.02				.21	.65				1.88		.45	.03			4.78
St. Louis (1)***	Mississippi						.05	.40	T.	T.				.08	.81	.25	1.26	T.			T.	.38	.41			1.71	1.06	.02	.52		.06		7.01
St. Louis (2)	do						.06	.48		T.				.11	.91	.37	.79				T.	.45	.20			1.29	.92	.01	.32		.09		6.00
Shelbina	do					.86	.15									.30	1.45						.70				1.65						5.11
Steffenville	do					T.	.65	.15	.50					.10	.10		2.75	.10			.02	.05	.48			.80	.20	.10					6.00
Union ‖‡	Meramec						.22	.12	.02	.02					.68	.02	.65	.04				.15	.65	.13			1.12	.82	.02	.28			4.94
Unionville	Chariton						.50	.20	.20					.25	.10	.50	1.85	.25								1.10	.40	T.			T.		5.35
Valley Park ‖‡	Meramec						.11	.29							.87	.53	.97	T.				.18	.79	.07			1.65	.67		.25	T.		5.88
Warrenton ‖	Mississippi						.29	T.		.02					.71	.51	1.78	.05				.10	.63				1.00	.95	.03	T.			5.57
Keokuk, Iowa***	do					T.	.47		.18	T.				.09	.20	.34	.46	.01			.01	.56				.88	.37	.33	.01				3.91
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi							.13		.60					.45		.45						.31	.35			1.39	.25		.23			4.16
Caruthersville	do							.20	.33					.60	.94	T.	1.17	T.				.30	.78				1.50		.25				6.07
Doniphan	Black						.05		.37					.25	.25	.05	.25					.60	.40			T.	2.10	.35	.20				4.87
Jackson	Mississippi							.25	.70					.05	.50		.46						.90				2.02	.53	.14				5.55
Marble Hill	do							.36	.46					.98			.62	T.					1.34				2.34	.21	.35		.45		7.11
New Madrid ‖	do							.07	.05	06					.74		1.55	.10					1.05	.05			2.20	.43		.35			6.65
Parma	do								.15					.10	.80		.82					.29	.90				1.52	.28					4.86
Patton (near)	do						.25		.87					.98			.56						1.81				2.65		.34				7.46
Poplar Bluff ‖	Black						T.	T.				T.			1.72		.65	T.				.40	.65				2.47	.10	.30				6.29
Vanduser	Mississippi						.09		.30						.90	1.55						.80	.23			1.63	.26		.33		.44		6.53
Cairo, Ill.***	do						T.	.14	.08					.29	.02	.37	.65	T.			T.	.36	.13			.01	1.23		.37		.02		3.67
Ozark Plateau.																																	
Arlington	Gasconade						.10	.03		.02					.26		.70	.01				.08	.60				1.75	1.40	.20	.20			5.35
Arcadia ‖	St. Francis						T.	.48		T.		T.			1.10	T.	.58	T.				T.	.80	.28			4.02	1.11	.05				8.42
Birchtree	Black					.10	.30	.42							.37	.20	.28					.38	1.05				4.20						7.20
Bolivar	Osage					.63	.31	T.						1.31		.11	.43	T.				.64	.10				.76				.11		3.87
Dean	Neosho						.93						T.	88	.30	.92	.42					.52	.05			1.30	.06						6.01
Eldon	Osage						.25		.02					.37	.10	.22	1.75	.03			.09	1.65	.10			.90	.38	T.	.18				6.04
Farmington	St. Francis							.65	.07		T.			.08	.94		.38	T.				.04	.94			T.	3.86	.18	.12				7.26
Gano	Meramec						.28	.22	.08					T.	.35	.17	.30	T.				.92	.92			T.	2.25		.23				5.72
Goodland	Black							1.07							.90		.40	.10					1.38				4.00	.15					8.00
Hollister	White													.40	.30	.25						1.00	1.10			1.10	2.30	.20	.40				7.35
Houston	Gasconade						.18	.08						.16	.23	.25	.55					.90	.65			.38	1.87		.19		.04		5.48
Koshkonong	Black						.23	.45	.23					.46	.18	.51	.05					.64	1.63			.15	3.31						7.84
Lebanon ‖‡	Osage							.13	.17	.06				.33	.07		1.71					.16	.89				1.51	.85	.05	.20			6.13
Lockwood	do				T.		.50							1.15			.28					.72	.05			1.45	.27	.63	T.		.11		5.16
Mountain Grove ‖	White						.08							.05			.55						3.17				2.21	1.28		.08			7.42
Neosho	Neosho						.50						T.	.97		.17	.22					.56	.11			2.00	.18	T.	T.		.03		4.74
Rolla ‖	Meramec						.42	T.	.09					T.	.27		1.33	T.			T.	.33	.38			1.40	1.88	.22	.45		T.		6.77
Seymour	White					T.	.39							.34	.03	.04	.70					.27	.22			1.20	1.75		.18		.04		5.16
Springfield***	do					.07	.09		.01				.29	.20		1.27	T.				T.	.88				1.39	.46	T.	.12	T.	.01		4.79
Steelville ‖‡	Meramec						.14	.20		.02					.65		.55					.08	1.35				1.17	1.06	.09	.40			5.71
Tuscumbia ‖‡	Osage						.07	.12	.01	.01				.15	.24	.02	1.54	.02				.43	.93				.88	.52	.16				5.10
Southwest Plain.																																	
Amoret	Osage					T.	.15							.78		.73	.13					.57				1.64			.44	.14	.03		4.61
Appleton City	do					T.	.19	.02	.12				T.	.68	T.	**	.52				T.	1.81				1.45	.02	.01	.22	T.	.05		5.09
Clinton	do		.15				.32	.36						1.28		.15	.40					.75				1.52			.40	.40			5.73
Harrisonville ‖	do							.11	.15					.44	.41	.13	1.04	T.				.30					1.90	.17					4.65
Lamar ‖	Neosho						.02	.57	.07					87	.50		1.26	.04					.57				1.45		.05	.06	.07		5.53
Lamonte	Missouri						.22		.05					.50	.11	.55	.25					.80				1.00	.12	.17	.08		.09		3.94
Marshall	do						.35		.18	T.				.35		.30	1.22	T.			T.	.21				1.32	.28				T.		4.21
Nevada	Osage						.65	.11						.90		.66	.25					1.45				1.57			.05	.05	T.		5.69
Osceola ‖‡	do							.10	.13					.65	.09		.10	.10				.10	1.50				1.50	.21					4.48
Warrensburg	Missouri							.25						.80	1.50		T.					.33				1.50					.23		4.61
Warsaw	Osage					T.	.45		.25				T.	.65	T.	.10	.27					1.95	.25			1.45	.37	.27	.25		.09		6.35
Waverly ‖	Missouri						.05	.04	.13					.20	.09	T.	1.50	T.									1.22						3.23
Northwest Plateau.																																	
Avalon	Grand						.75		.35					.20		1.10	.25									1.60				.25	.35		4.85
Bethany	do					T.	.40		.10	T.				.23		.59	1.40				T.					.65	T.	.10	T.	T.	.20		3.67
Chillicothe	do																																....
Conception	Missouri					T.	.12		.25					.16	T.	.28	.51									.33				T.	.21		1.86
Edgerton	Grand					T.			.23					.16	T.	.29	2.30				.04					1.09		T.		.01	.17		4.29
Grant City	do																																....
Kansas City***	Missouri						.40	.04	.18	T.				.40	T.	.30	.63				.02					.66		.02		.01	.05		2.71
Kidder ‖	Grand													.13	.11	.30	.35								.45	1.25	.16				.15		2.90
Lexington ‖	Missouri						.10		.10					.40	.25	.55	.78									2.00					.06		4.24
Liberty	do					T.	T.	.18	.41					.26	.03	.28	1.12				.14					.81					.09		3.32
Maryville ‖	do						.04	.13						.21	.25	.09	1.25	.43								.09	.44		.10				3.03
Oregon	do					T.	T.		.31	T.					.24	.18	1.40									.20	T.			T.	.15		2.48
St. Joseph***	do					T.	56	.10	.08	T.				.29		.35	1 20				.02					.31		.09		T.	.21		3.21
Tarkio	do					.05	.04		.13					.35	.05	1.16	1.20									.25			.08		.29		3.60
Trenton	Grand					.22	.25	.19		T.			.12	.02		3.82	.76				T.					1.13	.06	T.		T.	.16		6.73

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for April, 1921.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	67	78	80	81	79	74	69	62	43	54	65	73	59	72	75	35	50	61	77	80	71	67	88	87	77	57	67	63	64	61	....	67.9
	Minimum	30	38	48	54	57	59	43	44	29	30	31	38	52	52	52	34	28	31	50	50	54	49	43	51	69	53	43	44	40	39	....	44.5
Columbia	Maximum	63	75	78	78	75	73	68	63	46	50	63	71	59	65	73	51	47	63	74	70	67	62	86	81	80	61	63	60	61	62	....	66 3
	Minimum	33	43	51	56	58	58	49	46	32	33	31	50	52	50	51	28	29	30	43	54	56	50	44	67	60	46	43	42	37	40	....	45.4
Fayette §§	Maximum	74	77	78	74	70	69	58	49	50	63	69	56	65	73	70	47	63	73	70	67	63	83	80	78	74	62	59	60	60	53	....	66.2
	Minimum	27	38	42	41	57	58	45	42	28	30	27	46	50	50	52	33	28	28	36	50	54	48	43	65	59	44	41	43	36	36	....	42.7
Hannibal	Maximum	60	75	76	76	77	77	67	64	46	49	61	71	61	63	73	42	45	63	72	68	71	57	80	81	83	62	64	58	63	64	....	65.6
	Minimum	32	44	52	57	63	60	52	46	31	33	33	50	55	52	42	29	29	32	46	55	57	48	46	67	60	48	48	43	39	40	....	46.1
Jefferson City §§	Maximum	64	75	77	77	75	73	71	62	45	50	63	70	60	65	76	40	48	65	74	68	67	62	85	80	80	58	65	61	64	66	....	66.2
	Minimum	30	33	46	53	57	57	52	51	34	34	32	10	50	50	50	39	29	32	37	42	54	52	45	53	68	57	43	40	41	40	....	44.7
Kirksville	Maximum	62	76	76	77	76	71	66	59	54	53	69	71	61	65	61	58	45	63	72	67	69	65	79	82	74	60	64	61	65	61	....	65.8
	Minimum	29	30	49	54	52	57	41	44	26	29	32	44	48	49	47	26	24	34	40	51	54	47	43	60	58	48	43	41	40	38	....	42.6
Louisiana	Maximum	56	72	75	76	76	78	75	68	58	53	60	68	73	65	70	70	58	60	70	72	70	68	73	75	80	82	70	66	68	65	....	69.0
	Minimum	26	34	42	52	52	60	60	48	33	34	26	[illegible]	46	50	50	38	30	28	33	38	40	52	44	50	62	55	45	42	34	36	....	42.8
Macon §§	Maximum	65	78	80	80	78	73	69	61	49	53	63	73	57	67	72	32	47	66	75	71	71	62	85	85	79	59	67	62	65	64	....	66.6
	Minimum	31	40	50	55	52	57	43	43	27	29	33	41	50	49	50	31	26	32	40	51	54	48	44	55	67	53	14	43	40	40	....	43.9
Mexico §§	Maximum	63	75	79	78	76	75	68	61	47	52	64	72	58	67	75	39	46	65	75	69	71	58	85	82	82	61	66	60	65	66	....	66.6
	Minimum	32	37	52	53	55	58	50	48	31	31	30	40	49	49	50	35	26	30	41	47	54	50	44	55	67	56	44	43	37	37	....	44.4
St. Catherine	Maximum	60	73	75	76	73	70	67	60	55	53	50	70	62	64	65	50	41	64	70	68	70	60	80	80	75	60	66	60	61	60	....	64.7
	Minimum	29	40	43	51	55	57	41	42	25	27	28	29	50	49	48	25	26	30	38	50	53	46	41	63	57	48	41	42	49	37	....	42.0
St. Louis (1)	Maximum	63	75	76	77	78	79	75	67	51	49	60	72	66	66	74	62	42	63	72	65	72	60	79	81	82	62	66	66	64	64	....	67.6
	Minimum	38	46	54	54	57	60	61	51	37	37	38	42	52	51	55	32	30	35	48	52	56	52	52	66	60	48	47	49	47	50	....	48 6
Unionville	Maximum	65	76	78	77	72	68	66	60	55	52	60	70	64	66	62	54	45	60	72	70	65	62	81	83	75	60	62	58	63	62	....	65.4
	Minimum	28	42	48	54	53	56	40	42	25	27	31	42	50	48	42	25	20	32	40	50	52	44	45	60	50	48	42	37	36	47	....	41.9
Warrenton §§	Maximum	65	77	77	75	72	77	76	63	44	50	61	73	62	67	73	41	46	63	74	64	62	58	84	81	83	61	66	61	65	66	....	66.5
	Minimum	32	41	49	51	56	58	60	52	33	33	35	41	50	49	51	38	28	29	41	51	52	53	48	58	68	58	44	44	40	42	....	46.2
Southeast Lowlands.																																	
Caruthersville	Maximum	71	80	82	84	89	88	76	82	72	64	72	77	66	81	81	82	62	70	80	69	69	67	90	84	91	80	82	78	76	78	....	77.4
	Minimum	35	48	52	52	58	62	62	54	46	36	34	41	54	53	54	56	35	33	38	48	59	56	49	60	69	60	45	54	48	45	....	49.9
Doniphan	Maximum	64	72	74	76	78	82	83	78	65	57	62	70	64	72	80	75	51	65	73	68	64	73	84	79	84	82	73	72	68	69	....	71.9
	Minimum	30	36	41	44	57	60	60	59	40	38	29	39	52	52	50	51	33	27	34	49	57	35	45	60	69	55	42	50	42	39	....	45.8
Jackson	Maximum	60	72	78	72	78	80	76	77	57	51	58	63	65	70	79	76	53	64	70	63	65	64	80	79	83	80	72	66	65	70	....	69.5
	Minimum	29	33	36	41	50	57	61	55	40	34	27	36	49	58	46	52	33	26	26	35	52	52	41	61	68	59	42	47	39	38	....	44.1
Poplar Bluff §§	Maximum	60	65	80	80	80	82	82	83	80	70	73	80	83	72	70	84	70	60	75	77	65	72	85	74	87	87	74	72	71	71	....	75.5
	Minimum	40	40	45	30	35	63	65	69	69	30	30	69	69	49	46	49	33	30	47	43	58	56	47	61	57	59	43	39	42	39	....	48.2
Cairo, Ill.	Maximum	59	70	72	76	78	79	72	76	60	49	56	67	4	69	79	77	39	60	68	67	65	68	80	78	83	76	68	65	62	67	....	68.3
	Minimum	40	47	51	56	60	64	62	53	41	38	37	44	52	56	55	38	34	34	43	52	57	55	53	63	69	49	47	45	47	49	....	46.7
Ozark Plateau.																																	
Arcadia §§	Maximum	65	76	75	75	77	79	75	70	51	53	63	69	63	71	77	69	41	66	73	67	68	66	84	80	81	65	67	66	63	66	....	68.8
	Minimum	27	35	41	45	56	58	59	59	40	35	26	35	46	50	47	53	29	28	32	46	53	54	45	53	66	58	42	44	38	35	....	44 5
Birchtree	Maximum	64	74	75	74	71	76	72	71	55	52	60	69	60	72	77	64	46	64	73	68	63	69	[illegible]	87	78	65	6	66	61	68	....	68.1
	Minimum	30	36	45	19	56	57	57	53	38	34	28	42	50	50	54	36	28	30	38	46	55	49	[illegible]	62	52	48	42	46	41	41	....	44.6
Eldon	Maximum	70	[illegible]	80	81	71	73	83	67	54	67	70	71	61	68	75	57	61	74	80	74	66	70	87	74	82	6	70	71	80	65	....	71.4
	Minimum	27	32	36	41	53	53	45	43	28	29	26	43	46	47	48	25	24	26	35	35	50	52	45	59	45	44	40	37	34	36	....	39.5
Farmington	Maximum	67	77	76	76	78	75	71	69	51	49	62	66	60	62	80	69	37	62	62	61	63	63	80	78	80	71	65	61	67	67	....	66.9
	Minimum	29	35	36	46	52	54	66	51	39	34	28	46	52	52	49	37	28	34	34	47	47	53	46	62	65	45	43	45	41	37	....	44.4
Hollister	Maximum	70	80	70	78	75	70	65	75	62	66	70	70	68	76	75	70	56	68	78	78	76	72	72	80	75	65	68	70	70	72	....	71.3
	Minimum	31	40	40	40	40	50	40	50	30	30	30	35	45	40	40	30	26	30	43	41	53	50	52	50	45	48	38	40	38	38	....	40.3
Koshkonong	Maximum	65	75	76	77	74	74	75	76	58	53	62	69	58	73	79	66	50	63	74	65	63	69	85	78	79	69	69	....	68	71	....	[a]69.4
	Minimum	35	43	44	51	57	58	59	57	43	35	32	41	50	50	55	40	34	32	42	48	57	50	48	62	69	50	41	...	45	41	....	[a]47.2
Lebanon §§	Maximum	64	73	76	76	72	68	70	63	47	51	61	63	61	70	71	50	50	64	75	65	65	69	84	84	81	63	61	62	63	66	....	66.3
	Minimum	29	32	40	50	51	54	51	52	34	33	27	33	45	48	51	41	27	26	38	42	[illegible]	48	54	51	60	51	40	41	36	37	....	42.7
Mountain Grove §§	Maximum	63	73	73	72	72	67	71	63	42	53	60	64	71	72	71	47	49	63	71	67	72	66	84	78	56	58	65	62	65	62	....	65.2
	Minimum	32	36	38	48	47	54	57	57	37	35	27	32	37	53	49	45	27	28	32	38	47	49	47	52	53	42	42	45	38	37	....	42.0
Neosho	Maximum	65	75	78	78	73	72	77	77	59	51	64	69	65	72	75	65	32	65	75	73	73	69	83	82	83	62	68	68	62	70	....	69.3
	Minimum	28	35	43	58	59	61	45	50	35	31	27	48	51	48	53	31	26	26	39	58	54	56	50	52	59	52	40	40	41	38	..	44.6
Rolla	Maximum	65	78	77	75	75	75	79	73	56	50	66	67	69	68	74	72	47	65	73	70	70	65	85	85	80	60	66	60	64	65	....	69.1
	Minimum	32	40	50	55	58	58	59	50	35	35	32	47	5	50	53	34	28	31	40	53	56	53	46	64	58	47	43	45	41	40	....	46.1
Springfield	Maximum	61	71	75	75	68	67	74	62	47	48	62	66	59	68	70	56	46	61	73	70	65	66	82	79	77	60	62	60	58	62	....	65.0
	Minimum	35	45	51	55	57	57	53	46	34	33	31	46	50	49	51	27	27	33	45	54	52	52	53	63	58	48	45	44	45	44	....	46.3
Southwest Plain.																																	
Amoret	Maximum	65	74	77	76	72	72	68	66	52	55	70	69	62	71	72	59	52	64	75	74	67	70	82	81	72	62	65	61	59	60	....	67.5
	Minimum	30	38	48	52	54	56	37	43	29	30	30	45	18	55	50	26	25	28	39	55	54	45	46	62	55	48	39	41	40	40	....	42 9
Appleton City	Maximum	62	74	76	76	71	72	69	67	58	52	63	67	65	69	76	6	50	63	74	73	68	70	82	81	74	60	64	62	61	60	....	67.3
	Minimum	31	40	47	54	61	59	42	47	31	31	31	45	51	48	53	29	28	29	40	54	55	50	48	64	58	52	41	42	41	42	....	44.8
Clinton	Maximum	64	75	75	77	73	77	70	68	60	54	64	70	64	68	77	61	[illegible]	64	76	77	69	76	84	85	76	61	65	65	68	....	....	[a]69.2
	Minimum	30	31	30	30	43	50	43	41	31	30	30	47	46	49	53	29	28	30	41	53	55	50	48	65	60	50	41	42	48	....	....	[a]42.3
Harrisonville §§	Maximum	66	77	77	78	72	71	66	66	42	55	64	70	59	67	71	36	60	61	77	73	65	70	81	83	66	67	63	62	61	58	....	66.2
	Minimum	32	35	43	53	55	58	39	42	29	29	32	35	50	9	51	35	27	32	42	46	55	46	47	54	64	43	42	41	43	41	....	43.1
Lamar §§	Maximum	63	75	78	77	66	72	71	61	49	53	65	66	65	68	74	41	47	64	75	72	69	71	83	83	74	60	64	65	60	62	....	66.4
	Minimum	28	28	45	51	58	57	43	47	33	31	29	45	50	46	54	37	26	28	41	55	59	50	48	62	68	50	39	41	59	38	....	44 3
Lamonte	Maximum	65	70	79	80	75	74	69	62	51	53	[illegible]	73	60	68	75	68	50	66	76	77	67	68	84	83	74	60	66	62	65	62	....	68.2
	Minimum	31	39	50	54	59	59	42	45	29	29	29	44	51	50	52	27	27	29	41	53	55	48	45	64	59	51	40	40	40	39	....	41.0
Marshall	Maximum	63	72	78	77	76	74	70	62	55	51	63	73	70	64	74	63	47	64	75	75	70	....	81	83	79	60	65	61	63	61	....	[a]68.0
	Minimum	29	37	48	50	54	57	41	46	29	29	28	45	51	50	51	29	28	30	39	50	56	....	44	62	57	50	43	39	43	38	....	[a]43.3
Nevada	Maximum	63	74	77	77	70	73	72	62	56	51	62	66	[illegible]	69	74	61	51	61	75	71	67	70	83	82	73	61	66	62	60	65	...	67.3
	Minimum	33	43	48	53	59	57	41	46	32	31	32	16	[illegible]	56	52	29	28	29	44	57	53	49	54	64	55	56	40	41	41	41	....	45.3
Warrensburg	Maximum	78	81	82	80	79	77	63	47	55	61	[illegible]	70	[illegible]	60	50	50	67	69	71	78	80	83	85	88	62	65	67	64	62	....	....	[a]69.9
	Minimum	37	47	51	58	54	50	42	29	29	34	47	50	19	34	31	28	33	42	46	45	47	49	53	55	44	43	44	42	42	48	....	43.4
Warsaw	Maximum	64	75	79	77	78	72	73	67	55	52	64	72	64	67	75	65	49	65	75	75	68	68	84	84	[illegible]	[illegible]	65	61	63	62	....	69.3
	Minimum	29	43	50	58	62	60	47	55	32	32	28	49	52	50	50	29	29	29	37	51	56	52	47	66	60	52	43	40	37	37	....	45.4
Northwest Plateau.																																	
Chillicothe	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Grant City	Maximum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Minimum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Kansas City	Maximum	66	77	78	76	71	71	61	59	44	52	63	69	58	65	70	41	48	64	76	75	67	70	83	82	70	59	63	60	61	56	....	65.2
	Minimum	58	48	55	56	61	52	40	41	29	31	38	50	51	51	41	28	28	38	47	56	56	49	55	66	57	51	44	45	47	45	....	46.6
Kidder §§	Maximum	54	64	67	58	74	62	79	59	62	73	72	61	73	66	50	48	37	65	76	71	67	72	82	68	59	65	60	68	62	56	....	64.4
	Minimum	30	42	39	40	36	45	31	54	26	27	34	53	42	52	34	26	25	21	40	45	51	44	53	53	48	41	39	43	45	40	....	40.1
Lexington §§	Maximum	66	78	79	78	74	72	71	62	58	53	64	73	64	61	71	62	49	65	75	74	71	70	84	85	76	67	65	62	62	59	....	68.4
	Minimum	31	45	52	56	59	58	40	46	28	29	34	46	51	50	52	28	27	33	42	54	52	42	46	65	58	51	43	43	42	40	....	44.8
Maryville §§	Maximum	73	82	81	80	73	73	59	60	40	54	69	73	55	66	55	29	49	60	75	74	66	67	86	82	64	58	66	60	64	55	....	64.9
	Minimum	24	31	41	57	49	56	31	31	22	22	25	28	45	40	48	25	19	21	30	40	46	40	40	50	56	41	35	35	36	39	...	37.0
Oregon	Maximum	71	80	81	79	73	76	68	58	50	51	64	73	65	65	64	41	45	59	73	78	68	69	85	81	73	59	67	60	65	55	....	66.6
	Minimum	33	45	53	59	60	59	34	40	24	29	32	48	49	49	42	24	20	30	44	55	47	43	50	62	55	43	36	40	42	42	....	43.0
St. Joseph	Maximum	70	80	80	79	74	75	62	58	41	53	63	72	58	66	66	39	15	63	77	79	68	70	86	82	71	59	63	61	62	56	....	66.0
	Minimum	37	48	56	60	61	45	38	38	27	31	37	51	51	49	39	27	24	36	46	56	72	47	50	66	54	47	43	42	45	44	....	44.9
Trenton	Maximum	57	74	75	71	73	71	67	60	49	50	60	70	60	65	60	48	45	59	70	70	71	64	69	80	75	60	60	59	62	60	....	63.9
	Minimum	41	47	50	52	54	57	38	42	27	28	33	41	52	50	48	28	24	31	42	45	48	46	54	62	60	50	40	41	40	41	....	43.8

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

1.05
NMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXV. COLUMBIA, MO., MAY, 1921. No. 5.

GENERAL SUMMARY.

The sudden change from cool and showery weather to dry and hot along about the middle of the month was the outstanding feature of May, 1921. The entire year 1921, up to May 31st, has furnished more heat than any other similar five months of any year in the climatological history of the State. At Columbia, the section center, which is situated near the center of the State, the accumulated excess in temperature from January 1st to May 31st amounted to 1005°. This borders on the phenomenal.

The first part of the month was rather too wet for much field work, but by the close of the month the corn crop was in, and grain germinated well. Wheat improved after the dry weather set in, but the unusually high temperatures forced the head-making too much. Oats were rather poor, never having fully recovered from the late spring freezes. Grasses did well.

There was some local damage by excessive rains, hail, and wind.

TEMPERATURE.

The monthly mean for the State, as determined from the records of 68 stations was 66.4°. The departure from the normal for 65 stations having 10 or more years' record was plus 2.0°. The month was nearly 3° warmer than May, 1920, and about 5° warmer than the same month in 1919. The first part of the month was cooler than normal, with some quite cold nights during the first week; but along about the 17th there was a sudden change to summer weather, and from that date to the close of the month high temperatures obtained. The warmth of this period rather more than equaled the normal warmth for the same time in June. The highest temperature, 102°, on the 23rd, has been equaled or exceeded but once in the past 30 years, and that was in 1895. An injurious frost occurred on the morning of the 3rd. Temperatures of 32° or lower occurred at 15 stations on 2nd or 3rd.

PRECIPITATION.

The average precipitation for the State, 83 stations reporting, was 3.69 inches. The departure from normal for 77 stations having 10 or more years' record was minus 1.20 inches. The deficiency was somewhat more marked over the eastern half of the State than over the western half. Rain was general and copious on the 1st, 2nd, and from about the 7th to the 11th; following the 12th and up to about the 24th, there was scarcely any rain at all; during the last week local showers fell on several days.

The greatest monthly amount was 7.54 inches, at Kansas City, but from 5 to over 6 inches fell at 10 or 12 other stations; the least monthly fall was 1.28 inches, at Dean. Of the total amount that fell at Kansas City, 4.12 inches fell within 24 hours, on the 7-8th; the next greatest 24-hour fall was 2.70 inches. at Lamonte, and Farmington, on the 8th, and 10th, respectively.

WIND.

The prevailing winds were from the south. The average wind movement was 6,278 miles, based upon records of 8 well-placed stations equipped with anemometers. The average hourly velocity was 8.5 miles, or slightly below normal.

SUNSHINE AND CLOUDINESS.

The average number of clear days was 17. The average number of hours of sunshine was 328, or about 74 per cent of the possible and about 11 per cent above normal. This May received about 22 per cent more sunshine than May, 1920, and 5 per cent more than the same month in 1919.

MISCELLANEOUS PHENOMENA.

Auroras—13th, 14th, and 15th.

Fogs, dense—12th.

Frost, light—4th. Frost, heavy—3rd. Killing frost occurred at several stations on the 3rd.

Hail—1st, 7th, 8th, 9th, 10th, and 12th.

Halos, solar—7th, 10th, 12th, 14th, 17th, 18th, 21st, 23rd, 24th, 25th, 28th, and 31st. Halos, lunar—17th and 21st.

Thunderstorms—8th, 9th, 10th, 11th, 12th, 25th, 26th, and 29th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
								Max. velocity.		
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Miles per hour.	Direction.	Date.
Columbia	30.01	79	..	313	70	4,996	6.7	30	ne.	2
Hannibal	30.02	72	..	...	..	5,954	8.0	34	ne.	1
Kansas City	30.00	73	54	367	83	7,794	10.5	48	n.	1
St. Joseph	29.97	79	55	344	77	5.884	7.9	48	w.	26
St. Louis	30.01	66	54	333	75	7,881	10.6	46	ne.	2
Springfield	30.02	78	65	296	67	6,883	9.3	40	se.	10
Cairo, Ill	30.01	77	54	...	..	5,649	7.6	31	w.	10
Keokuk, Iowa	30.02	67	53	314	70	5,187	7.0	28	se.	9

COMPARATIVE DATA FOR MAY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	62.1	-2.3	93	30	5.35	+0.58	......	0	5	.....	.....	.....
1889	63.5	-0.9	96	28	6.56	+1.79	......	0	5	.....	.....	.....
1890	62.8	-1.6	96	32	3.47	-1.30	......	0	6	.....	.....	.....
1891	61.5	-2.9	97	28	4.26	-0.51	......	0	8	.....	.....	.....
1892	60.7	-3.7	91	28	7.80	+3.03	3.90	0	17	5	9	17
1893	66.8	-2.6	94	30	5.89	+1.12	5.83	0	10	11	11	9
1894	63.7	-0.7	95	22	3.99	-0.78	4.20	0	8	13	11	7
1895	64.6	+0.2	103	28	4.08	-0.69	3.43	0	9	13	12	6
1896	70.1	+5.7	96	32	9.09	+4.32	4.66	0	12	12	12	7
1897	62 4	-2.0	93	28	2.56	-2.21	3.82	0	7	16	11	4
1898	65.2	+0.8	97	31	7.90	+3.13	5.50	0	14	12	10	9
1899	66.9	+2.5	96	34	6.26	+1.49	5.28	0	12	10	13	8
1900	66.3	+1.9	97	29	3.69	-1.06	4.00	0	10	14	11	6
1901	63.8	-0.6	98	30	1.47	-3.30	3.04	0	6	15	10	6
1902	69.4	+5.0	98	39	5.03	+0.25	4.35	0	11	13	11	7
1903	65.1	+0.7	92	23	7.10	+2.33	3.10	0	15	9	10	12
1904	63.1	-1.3	95	32	5.03	+0.26	4.33	0	12	13	10	8
1905	64.9	+0.5	94	34	4.87	+0.10	4.55	0	10	12	11	8
1906	66.3	+1.9	98	27	2.16	-2.61	3.83	0	7	15	10	6
1907	59.5	-4.9	91	17	5.56	+0.79	4.33	0	10	14	6	11
1908	66.1	+1.7	96	21	6.92	+2.15	5.65	0	12	12	10	9
1909	63.3	-1.1	96	23	5.34	+0.57	5.26	0	9	15	9	7
1910	60.1	-4.3	94	32	6.62	+1.85	4.30	0	13	11	8	12
1911	68.8	+4.4	101	27	1.55	-3.22	2.06	0	5	19	7	5
1912	67.6	+3.2	97	30	3.86	-0.91	4.90	0	7	18	8	5
1913	65.8	+1.3	101	33	3.05	-1.93	2.95	0	8	16	7	8
1914	66.6	+2.0	98	31	1.47	-3.40	3.00	0	5	17	9	5
1915	63.7	-1.4	97	30	7.86	+3.04	7.10	0	12	12	7	12
1916	65.6	+0.7	96	33	5.61	+0.89	4.10	0	11	15	8	8
1917	58.7	-6.2	91	30	4.33	-0.47	2.60	0	10	15	7	9
1918	68.3	+3.8	100	28	5.49	+0.68	5.25	0	10	16	8	7
1919	62.0	-2.5	93	35	5 80	+0.87	4.50	0	13	10	10	11
1920	63.8	-0.8	97	32	4.85	+0.04	3.70	0	12	9	9	13
1921	66.4	+2.0	102	28	3.69	-1.20	4.12	0	7	17	8	6

Climatological Data for May, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	66.8	+2.4	96	28	36	3	34	3.64	−1.29	1.35	0	7	22	0	9	se.	O.K. Benecke
Clifton Hill	Randolph	731	22	67.3	+3.1	94	28	36	3	33	3.28	−2.02	0.92	0	10	21	5	5	......	L. S. Harlan.
Columbia	Boone	748	31	65.8	+1.3	90	28	39	3	30	4.01	−0.85	1.21	0	11	15	8	8	s.	U. S. Weather Bureau.
Downing	Schuyler	878	11	65.6	.....	93	†24	35	† 3	35	3.13	−1.45	0.98	0	8	21	4	6	e.	E. E. St. Clair.
Fayette	Howard	661	38	^{a}64.2	−0.3	88	†23	36	3	32	5.78	+1.13	1.60	0	10	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	29	65.4	+0.3	91	†24	33	3	34	3.86	−0.82	0.66	0	12	19	8	4	sw.	Westminster College.
Gorin	Scotland	700	34	....	.....	..	..	..	..	..	3.74	−0.84	1.24	0	8	12	10	9	sw.	J. W. Pulliam.
Hannibal	Marion	534	37	66.6	+2.2	92	24	39	3	28	1.41	−3.59	0.77	0	6	14	10	7	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	38	65.8	+0.9	93	†28	37	3	32	4.32	−0.23	1.05	0	9	^{a}23	^{a} 1	^{a}6	s.	Miss Emma Swift.
Kirksville	Adair	969	39	64.0	+1.6	91	†28	36	† 3	43	2.97	−2.32	0.87	0	7	18	8	5	s.	Prof. J. S. Stokes.
Louisiana	Pike	469	40	66.0	+2.1	94	25	36	16	34	4.36	−0.16	2.01	T.	7	22	5	4	s.	J. T. Farrell.
Macon	Macon	875	28	66.8	+2.7	95	†28	35	3	32	2.22	−2.65	0.85	0	7	18	7	6	sw.	W. C. Brown.
Mexico	Audrain	800	43	66.2	+1.7	94	28	34	3	31	3.51	−1.22	0.90	0	8	21	3	7	se.	Mrs. Abbie Snoddy.
Palmyra	Marion	652	22	.....	.....	..	..	..	..	..	....	.....	....	.....	..	..	..	..	......	W. B. Markell.
St. Catherine	Linn	800	12	65.0	.....	92	29	33	3	31	2.42	......	0.73	0	10	17	9	5	s.	L. D. Baker.
St. Charles	St. Charles	456	43	66.9	+4.5	94	30	37	3	31	2.08	−2.17	1.02	0	8	16	6	9	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	83	68.5	+1.6	92	24	40	3	22	4.29	+0.05	2.22	0	7	16	10	5	s.	U. S. Weather Bureau.
St. Louis (2)	....do	578	9	67.6	+1.5	93	†23	39	3	23	3.96	−0.28	2.01	0	7	18	7	6	se.	St. Louis University.
Shelbina	Shelby	779	28	.....	.....	..	..	..	..	..	3.48	−1.68	1.38	0	4	..	..	..	......	S. G. Parsons.
Steffenville	Lewis	650	28	66.6	+2.3	94	24	36	3	36	3.40	−1.63	0.95	0	8	17	6	8	s.	Frank Hall.
Unionville	Putnam	1,062	28	65.1	+2.5	93	29	34	3	35	2.80	−3.21	1.45	0	6	8	16	7	s.	Geo. W. Davis.
Warrenton	Warren	816	31	^{a}66.2	+1.1	94	24	37	3	31	4.86	+0.23	1.77	0	8	15	9	7	s.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	49	66.6	+3 4	92	24	40	3	24	1.72	−2.53	0.74	0	5	8	12	11	n.	U. S. Weather Bureau.
Section means and	extremes	.....	..	66.2	+1.9	96	28	33	3	43	3.42	−1.31	2.22	0	8	17	7	7	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	73.8	+4.3	102	†23	44	3	38	1.88	−2.38	0.70	0	6	24	2	5	e.	H. E. Averill.
Doniphan	Ripley	344	17	67.6	+0.7	95	†28	39	3	36	3.21	−0.95	1.45	0	7	21	4	6	s.	W. W. Martin.
Jackson	Cape Girardeau	428	31	66.6	+0.8	94	31	41	† 3	39	4.28	−0.08	1.87	0	8	8	10	13	s.	John J. Putz.
Marble Hill	Bollinger	470	27	66.8	+1.1	95	21	41	3	39	3.69	−0.54	1.78	0	3	20	6	5	n.	R. A. DeWitt.
Parma	New Madrid	281	..	.....	.....	..	..	..	..	..	2.92	......	1.44	0	3	..	..	..	......	J. E. Pearce.
Patton (near)	Bollinger	500	11	.....	.....	..	..	..	..	..	6.12	+1.34	2.65	0	4	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	339	17	69.0	+1.0	94	28	40	3	41	2.56	−2.47	1.22	0	6	12	9	10	......	....
Vanduser	Scott	304	..	.....	.....	..	..	..	..	..	3.12	......	1.22	0	3	..	..	..	......	M. L. Armstrong.
Cairo, Ill.	Alexander, Ill	359	49	68.6	+1.1	91	28	41	3	26	1.68	−2.15	0.80	0	6	8	10	13	ne.	U. S. Weather Bureau
Section means and	extremes	....	..	68.7	+1.5	102	†23	39	3	41	3.27	−1.03	2.65	0	5	14	8	9	s.	
Ozark Plateau.																				
Arcadia	Iron	926	43	64.5	−0.1	92	28	36	3	38	3.71	−1.07	0.88	0	9	^{a}15	^{a} 6	^{a} 9	s.	Arcadia College.
Birchtree	Shannon	1,000	28	^{a}65.8	+0.6	92	28	36	3	34	1.97	−2.34	0.97	0	4	21	6	4	s.	V. H. Kirkendall.
Bolivar	Polk	1,071	32	^{c}67.0	+2.1	90	†24	31	3	34	2.93	−2.49	1.41	0	6	19	8	4	s.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	66.1	+0.3	91	†28	28	3	40	1.28	−3.68	0.62	0	7	26	3	2	se.	H. E. Dean.
Eldon	Miller	934	22	^{c}66.2	+1.7	101	21	30	2	43	4.08	−0.78	1.40	0	10	^{c}10	^{c} 9	^{c} 9	sw	E. H. Shepherd.
Farmington	St. Francois	918	24	64.4	+0.6	92	24	34	3	35	6.06	+0.56	2.70	0	8	16	9	6	sw.	Robert Forsyth.
Gano ‡‡	Dent	1,250	20	63.7	−1.6	90	30	35	3	40	3.56	−0.98	1.10	0	9	17	8	6	sw.	A. C. Leach.
Goodland	Iron	1,000	28	63.8	−0.7	96	†28	34	3	39	5.13	+0.51	2.00	0	7	24	1	6	s.	F. M. Adams.
Hollister	Taney	735	18	74.3	+7.0	95	30	31	3	29	1.45	−2.78	0.70	0	3	25	3	3	se.	W. P. Chapmann.
Houston	Texas	1,280	29	60.6	−4.3	94	28	36	3	42	3.27	−0.82	1.25	0	7	19	5	7	sw.	Walter T. Beard.
Koshkonong	Oregon	958	20	^{b}68.0	+1.2	97	29	37	3	29	1.94	−2.90	0.81	0	6	^{g} 7	^{g}10	^{g} 7	sw.	R. M. Hitt.
Lebanon	Laclede	1,265	34	64.7	−0.9	90	28	30	3	38	5.17	−0.44	2.11	0	9	18	7	6	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	65.2	+0.6	91	27	34	† 3	41	4.23	−0.85	1.08	0	6	23	2	6	se.	C. S. Crow.
Mountain Grove	Wright	1,463	25	64.9	+1.0	96	28	33	3	36	1.66	−3.19	0.47	0	9	16	4	11	s.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	66.8	+0.6	92	31	30	3	39	1.78	−4.29	0.56	0	4	25	5	1	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	65.6	+1.1	92	†24	36	3	30	3.55	−1.46	1 05	0	7	18	9	4	nw.	Prof. Elmo G. Harris.
Seymour	Webster	1,642	16	66.0	+1.9	90	28	32	3	36	2.34	−3.36	1.34	0	7	17	10	4	s.	Ira H. Hailey.
Springfield	Greene	1,350	42	65.5	+0.8	88	28	36	3	25	4.06	−1.49	2.18	0	8	19	7	5	se.	U. S. Weather Bureau.
Section means and	extremes	.....	..	65.7	+0.7	101	21	28	3	43	3.23	−1.77	2.70	0	7	19	6	6	s.	
Southwest Plain.																				
Amoret	Bates	831	15	65.4	+1.9	91	29	32	3	34	4.41	−0.41	1.82	0	10	20	7	4	s.	Darby Fruit Farm.
Appleton City	St. Clair	853	29	66.5	+1.4	91	†28	36	3	29	4.29	−1.25	2.26	0	6	18	10	3	se.	W. G. Bigelow.
Clinton	Henry	765	34	67.6	+2.4	94	29	35	† 2	34	4.09	−1.35	2.55	0	6	17	9	5	sw.	A. E. Derwent, M. D
Harrisonville	Cass	904	46	65.8	+1.8	92	29	35	3	31	3.60	−1.21	1.87	0	8	16	8	7	s.	John H. Patterson.
Lamar	Barton	980	40	66.3	−0.4	92	30	32	3	33	2.44	−3.02	1.30	0	6	25	3	3	ne.	Joe W. Springer.
Lamonte	Pettis	867	35	66.8	+2.1	96	29	32	3	35	5.41	+0.46	2.70	0	10	25	1	5	se.	George B. Wagner.
Marshall	Saline	779	32	^{c}66.8	+2.7	95	23	35	3	35	4.35	−0.51	1.82	0	6	^{d}17	^{d} 7	^{d} 3	sw.	Dr. W. H. Black.
Nevada	Vernon	862	30	66.6	+2.0	89	29	31	3	31	4.95	−0.77	1.73	0	7	21	4	6	s.	George A. Kaupp.
Warrensburg	Johnson	878	43	^{c}68.0	+2.7	97	†29	34	2	36	3.33	−1.33	1.65	0	5	..	..	..	..	S. I. Major.
Warsaw	Benton	687	26	67.0	+1.2	94	29	30	3	38	6.12	+0.89	1.90	0	9	10	20	1	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	66.7	+1.8	97	†29	30	3	38	4.30	−0.85	2.70	0	7	19	8	4	s	
Northwest Plateau.																				
Avalon	Livingston	730	24	66.4	+3.2	94	29	35	3	28	5.17	−0.04	2.60	0	8	21	7	3	......	F. G. Ashbaugh.
Bethany	Harrison	916	30	66.2	+3.8	96	29	31	3	36	2.82	−2.30	0.65	0	7	10	12	9	sw.	M. H. Moulton.
Chillicothe	Livingston	779	13	66.5	+5.4	94	†22	32	3	35	3.19	−2.31	1.57	0	7	23	1	7	sw.	G. L. Fellinger.
Conception	Nodaway	980	37	66.2	+4.5	98	29	35	3	30	3.76	−0.94	1.41	0	9	13	14	4	s.	Fr. Adelhelm Hess.
Edgerton	Platte	856	9	65.8	.....	95	28	30	3	37	5.24	−0.72	1.52	0	9	19	4	8	s.	Fred L. Stiff.
Grant City	Worth	1,134	30	.....	.....	..	..	..	..	..	....	......	....	.....	..	..	..	..	......	J. E. Engle.
Kansas City	Jackson	963	32	67.0	+2.5	93	29	40	3	24	7.54	+2.43	4.12	0	8	15	11	5	s.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	34	66.6	+3.6	94	29	39	†13	32	3.75	−1.80	1.10	0	7	23	0	8	se.	Linn Terry.
Lexington	Lafayette	688	39	67.4	+3.0	95	†28	35	3	31	3.61	−1.45	1.73	0	11	11	16	4	se.	Edwin G. Loomis.
Liberty	Clay	859	31	66.4	+1.7	94	28	35	3	31	5.58	+0.43	1.73	0	10	21	6	4	sw	James H. Harris.
Maryville	Nodaway	1,036	27	63.3	+2.3	94	29	31	3	36	5.56	−0.37	1.85	0	10	15	4	12	s.	J. R. Brink.
Oregon	Holt	1,048	66	65.0	+1.7	94	29	34	3	30	4.76	−0.14	2.29	0	6	7	22	2	s.	Tom Curry.
St. Joseph	Buchanan	967	49	66.6	+2.1	93	29	35	3	31	4.71	+0.37	1.49	0	8	16	10	5	s.	U. S. Weather Bureau.
Tarkio	Atchison	916	28	64.9	+1.3	93	28	31	3	36	5.20	+0.39	1.68	0	9	17	8	6	sw.	John F. Frazier
Trenton	Grundy	822	26	65.2	+1.3	92	24	33	3	30	2.90	−2.57	0.95	0	7	23	4	4	s.	W. H. Estes.
Section means and	extremes	.....	..	66.2	+3.0	96	29	30	3	37	4.56	−0.64	4 12	0	8	17	9	5	s.	
State means and	extremes	.....	..	66.4	+2.0	102	†23	28	3	43	3.69	−1.20	4.12	0	7	17	8	6	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for May, 1921.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville ‖	Missouri	.14	.94	....	....	....	....	....	.77	.78	....	.07	.17	.25	....	T.	....	....	....	....	....	....	....	....	....	....	T.	.55	....	.27	....	....	3.94
Brunswick ‖	Grand	.42	.23	....	....	....	....	....	.60	1.35	....	....	....	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	.72	....	....	....	.28	3.64
Clifton Hill	Chariton	.92	.11	....	....	....	....	.05	.66	.12	.06	.26	....	.12	....	....	....	....	....	....	....	....	....	....	....	....	.13	....	....	....	....	.85	3.28
Columbia***	Missouri	.74	.01	....	....	....	....	.06	.90	T.	.15	1.20	.01	.05	....	....	....	....	....	....	....	....	....	....	T.	....	.86	T.	.02	....	....	.01	4.01
Downing	Mississippi	.49	.98	....	....	....	....	....	.06	....	....	.48	.08	....	....	....	....	....	....	....	....	....	....	....	....	....	.07	.02	....	....	....	.95	3.13
Fayette ‖	Missouri	.68	....	....	....	....	....	.10	1.25	.06	.47	.88	.35	....	....	....	....	....	....	....	....	....	....	....	....	....	.17	....	....	.22	....	1.60	5.78
Fulton	....do	.64	.30	....	....	....	....	.10	.66	.01	.48	.23	.59	.14	....	....	....	....	....	....	....	....	....	....	....	....	.55	.12	.04	....	....	....	3.86
Gorin	Mississippi	1.24	....	....	....	....	....	....	.02	.10	.77	.14	.14	....	....	....	....	....	....	....	....	....	....	....	....	....	.32	....	....	....	....	1.01	3.74
Hannibal***	....do	.72	.05	....	....	....	....	....	....	.03	.40	T.	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	.15	....	....	....	....	....	1.41
Hermann ‖	Missouri	.10	.89	....	....	....	....	....	....	.45	.48	.87	.51	.15	....	....	....	....	....	....	....	....	....	....	....	.06	....	.75	....	....	....	....	4.26
Jefferson City ‖	....do	.27	.52	....	....	....	....	....	.85	1.05	.03	.75	.35	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	.45	....	....	....	....	4.32
Kirksville	Mississippi	.43	.87	....	....	....	....	....	.13	....	....	.46	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.35	.02	....	....	....	.71	2.97
Louisiana	....do	.05	.95	....	....	....	....	....	....	.05	.40	2.01	.40	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.50	....	....	....	....	4.36
Macon ‖	Chariton	.12	.85	....	....	....	....	....	....	.40	....	.18	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.54	....	....	....	.07	2.22
Mexico ‖	Mississippi	.25	.83	....	....	....	....	....	....	.35	.05	.90	.85	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	.22	....	....	....	....	3.51
Pacific ‖	Meramec	.06	1.70	.02	....	....	....	....	....	.12	.04	1.55	.62	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	1.19	....	.01	....	....	5.35
Palmyra ‖	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
St. Catherine	Grand	.42	.06	....	....	....	....	.03	.32	.28	.03	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.35	.15	....	....	....	.73	2.42
St. Charles	Missouri	.22	.34	....	....	....	....	....	....	.08	1.02	.12	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	.13	.12	....	....	....	....	2.08
St. Louis (1)***	Mississippi	.46	.39	....	....	....	....	....	....	.38	2.22	T.	....	T.	....	....	....	....	....	....	....	....	....	....	....	.59	.24	.01	T.	....	....	....	4.29
St. Louis (2)	....do	.45	.33	....	....	....	....	....	....	.56	2.01	.02	....	T.	....	....	....	....	....	....	....	....	....	....	T.	.28	.31	....	....	....	....	....	3.96
Shelbina	....do	....	1.38	....	....	....	....	....	....	.22	1.33	.55	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.48
Steffenville	....do	.31	.95	....	....	....	....	....	T.	.15	.65	.06	.12	.21	....	....	....	....	....	....	....	....	....	....	....	....	.95	....	....	....	....	....	3.40
Union ‖	Meramec	.14	1.04	....	....	....	....	....	....	.10	....	1.26	.92	.08	....	....	....	....	....	....	....	....	....	....	....	....	....	.61	.05	....	....	....	4.20
Unionville	Chariton	.70	.75	....	....	....	....	....	....	.75	.25	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	T.	.25	2.80
Valley Park ‖	Meramec	.13	.67	.03	....	....	....	....	....	.13	.03	2.76	.07	T.	....	....	....	....	....	....	....	....	....	....	....	....	.03	.49	....	....	....	....	4.34
Warrenton ‖	Mississippi	.20	1.77	....	....	....	....	....	....	.16	.07	1.45	.50	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	.65	....	....	....	....	4.86
Keokuk, Iowa***	....do	.69	.05	....	....	....	....	....	T.	T.	.35	.03	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	.60	....	....	....	....	....	1.72
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi	.23	.60	.05	....	....	....	....	....	.05	.22	1.22	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	.20	....	....	....	....	....	2.77
Caruthersville	....do	.10	.70	....	....	....	....	....	T.	T.	.68	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	.15	.20	....	....	1.88
Doniphan	Black	.67	.33	....	....	....	....	T.	.10	.25	1.45	.15	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.26	....	....	3.21
Jackson	Mississippi	.32	.79	....	....	....	....	....	....	.16	1.87	.71	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.22	.19	....	....	....	4.28
Marble Hill	....do	....	1.48	....	....	....	....	....	....	....	1.78	.43	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.69
New Madrid ‖	....do	.01	.52	.37	....	....	....	....	....	....	.25	.85	.30	....	....	....	....	....	....	....	....	....	....	....	....	....	.05	....	....	....	.07	....	2.42
Parma	....do	....	.97	....	....	....	....	....	....	....	1.44	.51	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.92
Patton (near)	....do	.41	2.10	....	....	....	....	....	....	2.65	.96	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	6.12
Poplar Bluff ‖	Black	.25	.40	....	....	....	....	T.	T.	T.	.47	1.22	.09	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.13	....	2.56
Vanduser	Mississippi	.85	....	....	....	....	....	....	....	....	1.22	1.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.12
Cairo, Ill.***	....do	.21	.31	T.	T.	....	....	....	T.	.03	.80	.27	....	....	....	T.	....	....	....	....	....	....	....	....	T.	.06	....	....	....	....	....	....	1.68
Ozark Plateau.																																	
Arcadia ‖	St. Francis	.43	.75	T.	....	....	....	....	.02	.01	.81	.88	.12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.60	.09	....	....	....	3.71
Arlington	Gasconade	.33	.25	....	....	....	....	....	.42	.06	....	.92	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.92	.15	....	....	....	3.05
Birchtree	Black	.97	.37	....	....	....	....	.05	....	....	.58	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.97
Bolivar	Osage	....	T.	....	....	....	....	.83	.46	....	.14	T.	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	1.41	.04	....	....	....	.05	2.93
Dean	Neosho	.14	....	....	....	....	....	T.	.05	....	.29	.08	....	.08	.02	....	....	....	....	....	....	....	....	....	....	....	....	.62	....	....	....	....	1.28
Eldon	Osage	.69	.08	....	....	....	....	.27	1.40	.05	.34	.21	.09	.15	....	....	....	....	....	....	....	....	....	....	....	....	....	.80	....	....	....	....	4.08
Farmington	St. Francis	.68	1.00	....	....	....	....	....	....	.20	2.70	.42	.14	....	....	....	....	....	....	....	....	....	....	....	....	.06	....	.86	....	....	....	....	6.06
Gano	Meramec	.71	.16	....	....	....	....	.10	.06	T	1.10	.50	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	.69	.04	.20	T.	....	....	3.56
Goodland	Black	.74	.65	....	....	....	....	.11	....	....	2.00	.52	.15	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.96	....	....	....	....	5.13
Hollister	White	....	....	....	....	....	....	....	.70	....	.30	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.45	....	....	....	....	....	1.45
Houston	Gasconade	1.25	....	....	....	....	....	.28	.07	....	.61	.10	.14	....	....	....	....	....	....	....	....	....	....	....	....	....	.82	....	....	....	....	....	3.27
Koshkonong	Black	.62	.31	....	....	....	....	.07	.03	....	.81	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	1.94
Lebanon ‖	Osage	1.15	.11	....	....	....	....	....	.62	.22	T.	2.11	.36	....	....	.02	....	....	....	....	....	....	....	....	....	....	T.	.42	....	....	.16	....	5.17
Lockwood	....do	T.	....	....	....	....	....	.95	.42	....	.95	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	1.08	....	....	.75	.08	....	4.23
Mountain Grove ‖	White	.23	.15	....	....	....	....	....	.24	.05	.18	.47	.22	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.08	....	....	.04	....	1.66
Neosho	Neosho	....	....	....	....	....	....	.30	....	....	.52	.40	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	.56	....	....	T.	T.	1.78
Rolla ‖	Meramec	.52	.37	....	....	....	....	....	.49	.18	....	1.05	.11	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.83	T.	....	....	....	3.55
Seymour	White	.19	.03	....	....	....	....	.38	T.	....	1.34	.12	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.10	.18	....	T.	....	....	2.34
Springfield***	....do	.14	T.	....	....	....	....	.61	....	....	2.18	.51	....	....	....	....	....	....	....	....	....	....	....	....	....	.28	.17	.09	....	.08	....	....	4.06
Steelville ‖	Meramec	.42	.47	....	....	....	....	....	.18	.06	....	1.06	.18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.56	.26	....	....	....	3.19
Tuscumbia ‖	Osage	.85	.27	....	....	....	....	....	1.98	.83	.13	.73	.38	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	.98	....	....	....	....	6.19
Southwest Plain.																																	
Amoret	Osage	.12	.03	....	....	....	....	.87	1.82	.21	.12	.03	....	.33	....	....	....	....	....	....	....	....	....	....	....	....	T.	.65	....	....	.23	....	4.41
Appleton City	....do	.44	T.	....	....	....	....	.54	2.26	....	T.	.47	....	T.	T.	....	....	....	....	....	....	....	....	....	....	....	.15	.43	....	....	....	T.	4.29
Clinton	....do	....	....	....	....	....	....	....	2.55	....	.17	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.45	.70	....	....	.10	.12	4.09
Harrisonville ‖	....do	.11	....	....	....	....	....	.08	1.87	.48	.13	....	.40	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	.50	....	....	....	....	3.60
Lamar ‖	Neosho	.14	T.	....	....	....	....	....	1.30	.02	.31	....	....	....	....	.07	....	....	....	....	....	....	....	....	....	....	....	.60	....	....	....	....	2.44
Lamonte	Missouri	.51	.08	....	....	....	....	.20	2.70	.01	T.	.68	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	.97	.22	....	T.	....	.02	5.41
Marshall	....do	1.08	....	....	....	....	....	.32	1.82	....	....	.08	....	.15	....	....	....	....	....	....	....	....	....	....	....	....	.90	....	....	....	T.	....	4.35
Nevada	Osage	....	....	....	....	....	....	1.73	.94	....	.39	T	....	....	....	....	....	....	....	....	....	....	....	....	....	....	17	.70	....	.12	....	.90	4.95
Osceola ‖	....do	.20	.10	....	....	....	....	....	1.72	.10	....	.12	.09	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.52	....	....	....	.33	4.18
Warrensburg	Missouri	....	....	....	....	....	....	1.65	.80	....	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.43	....	....	....	....	.25	....	3.33
Warsaw	Osage	1.09	T.	....	....	....	....	.40	1.90	....	T.	.85	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	.61	.62	....	....	.10	.50	6.12
Waverly ‖	Missouri	.95	.23	T.	....	....	....	....	1.10	1.23	.10	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	.24	....	....	....	.69	4.54
Northwest Plateau.																																	
Avalon	Grand	.25	....	....	....	....	....	.30	.80	.55	10	.25	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.32	..	....	....	2.60	....	5.17
Bethany	....do	.35	....	....	....	....	....	.08	....	.65	.80	.04	....	....	T.	T.	....	....	....	....	....	....	....	....	....	....	T.	.35	....	....	....	.55	2.82
Chillicothe	....do	....	.28	....	....	....	....	....	.72	....	.21	....	.04	.09	....	....	....	....	....	....	....	....	....	....	....	....	....	.28	....	....	....	1.57	3.19
Conception	Missouri	.28	....	....	....	....	....	.09	.65	.50	1.41	.11	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.11	....	....	.30	.31	3.76
Edgerton	Grand	.13	T.	....	....	....	....	.53	1.52	.65	1.09	.46	.01	....	....	....	....	....	....	....	....	....	....	....	....	....	.22	.63	....	....	....	T.	5.24
Grant City	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Kansas City***	Missouri	.04	....	....	....	....	....	1.33	3.57	.80	1.08	.05	06	....	....	....	....	....	....	....	....	....	....	....	....	....	.61	....	....	....	....	T.	7.54
Kidder ‖	Grand	....	....	....	....	....	....	1.10	.81	.25	....	....	.14	....	....	....	....	....	....	....	....	....	....	....	....	....	.61	....	....	....	.32	.52	3.75
Lexington ‖	Missouri	.30	.12	....	....	....	....	.49	1.73	.02	.14	.08	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.38	....	....	.20	.09	3.61
Liberty	....do	.07	.02	....	....	....	....	.64	1.73	.77	.77	.71	....	.37	....	....	....	....	....	....	....	....	....	....	....	T.	.12	.38	....	....	....	....	5.58
Maryville ‖	....do	1.85	.02	....	....	....	....	.09	.69	.90	1.09	.02	27	....	....	....	....	....	....	....	....	....	....	....	....	....	.05	....	....	....	....	.58	5.56
Oregon	....do	.88	....	....	....	....	....	.52	2.29	1.12	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	.33	....	....	....	.42	....	4.76
St. Joseph***	....do	....	....	....	....	T	.56	.10	.08	T.	....	....	....	.29	....	.35	1.20	....	....	....	.02	....	....	....	....	.31	....	.09	....	T.	.21	....	3.21
Tarkio	....do	.20	....	....	....	....	....	.55	1.68	.20	.49	.85	....	....	....	....	....	....	....	....	.03	....	....	....	....	....	....	.10	....	....	1.10	....	5.20
Trenton	Grand	.46	....	....	....	....	....	.16	.35	.95	T.	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.29	....	....	....	.63	....	2.90

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for May, 1921.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§..........	Maximum...	54	52	61	65	75	79	65	60	79	71	69	81	69	61	67	73	82	87	88	90	91	92	91	92	92	87	85	96	95	94	83	78.3
	Minimum ...	48	44	36	38	47	45	53	54	55	58	57	52	52	42	44	43	48	53	58	63	68	64	66	65	69	68	62	63	67	68	66	55.4
Columbia.........	Maximum...	56	52	58	61	70	74	67	63	77	65	66	77	67	58	65	68	78	81	83	86	87	88	89	90	88	88	84	90	90	88	86	75.5
	Minimum ...	..	40	39	45	44	44	55	54	59	58	56	56	52	45	48	42	54	58	59	64	65	64	67	67	70	61	60	65	67	68	68	56.2
Fayette§§	Maximum...	51	68	63	72	75	62	60	75	68	64	77	65	66	62	67	76	79	81	83	84	85	87	88	86	83	80	87	87	88	82	..	[a]75.0
	Minimum ...	47	40	36	40	46	42	52	53	56	57	56	56	51	42	45	41	49	49	56	60	63	60	62	63	65	60	58	60	65	65	62	53.5
Hannibal..............	Maximum...	56	47	52	63	70	76	72	69	78	73	69	78	67	59	62	68	77	82	84	87	88	89	90	92	90	87	84	89	90	91	83	76.2
	Minimum ...	44	41	39	45	47	49	52	54	61	59	59	55	53	44	45	40	53	54	60	66	66	66	69	70	72	68	65	67	64	66	70	56.9
Jefferson City §§.......	Maximum...	56	52	58	60	70	77	65	65	76	62	68	77	70	60	66	70	79	84	84	87	88	88	90	92	90	87	83	93	93	91	92	76.5
	Minimum ...	48	40	37	42	44	47	53	53	53	59	50	53	50	46	47	44	51	52	58	59	60	63	66	65	69	70	61	64	66	67	67	55.0
Kirksville	Maximum...	52	51	56	65	70	76	66	62	76	74	67	72	79	60	64	79	78	83	84	87	88	89	90	90	90	88	81	91	91	91	84	76.6
	Minimum ...	48	40	36	36	45	47	48	52	55	58	55	53	48	38	39	38	38	40	55	55	55	58	57	68	68	63	61	61	63	66	52	51.5
Louisiana	Maximum...	65	57	63	60	62	73	76	72	76	80	70	74	78	70	63	68	73	82	82	85	88	90	92	93	94	93	90	88	92	92	92	78.5
	Minimum ...	50	40	40	42	44	44	42	48	58	58	58	52	55	44	44	36	44	50	52	58	58	60	65	62	70	70	62	65	60	60	64	53.4
Macon §§.......	Maximum...	53	53	59	66	75	80	69	62	80	72	70	81	69	62	66	74	83	87	83	91	92	91	91	94	92	90	85	95	95	94	79	78.5
	Minimum ...	48	40	35	44	44	48	51	51	55	58	56	54	49	39	40	40	51	56	55	64	70	65	66	69	68	68	61	63	64	67	66	55.0
Mexico §§...............	Maximum...	57	50	56	63	72	76	69	61	79	65	65	79	70	61	65	69	80	85	87	89	90	91	92	93	91	92	85	94	93	93	89	77.5
	Minimum ...	47	39	34	43	44	46	50	52	55	57	56	55	52	43	46	40	51	55	58	61	63	63	67	68	70	68	60	63	64	63	66	54.8
St. Catherine..........	Maximum...	52	52	58	63	72	77	67	61	74	73	66	80	72	60	64	68	76	81	83	85	87	87	89	89	88	86	81	88	92	90	80	75.5
	Minimum ...	47	40	33	43	50	46	53	52	54	57	56	52	47	40	39	42	52	53	58	64	65	63	65	65	68	66	61	61	63	68	63	54.4
St. Louis (1)...........	Maximum...	60	50	49	62	71	74	76	77	78	64	69	78	72	62	65	66	75	81	84	87	88	90	91	92	90	87	84	91	89	90	92	76.9
	Minimum ...	50	40	40	44	50	55	58	55	59	58	58	58	58	52	50	49	53	60	66	68	72	70	72	73	69	67	64	71	75	73	75	60.1
Unionville	Maximum...	52	55	64	70	75	66	60	76	75	74	78	72	64	60	68	78	83	84	86	88	90	90	91	90	88	86	91	93	90	85	85	77.6
	Minimum ...	45	40	34	42	40	45	49	50	55	56	57	52	46	36	40	35	50	55	58	65	64	65	66	65	67	66	60	58	62	66	65	53.4
Warrenton §§..........	Maximum...	57	47	52	62	70	76	70	66	77	62	67	78	70	60	66	70	72	84	87	89	90	90	93	94	92	89	86	93	90	91	..	[a]76.3
	Minimum...	48	38	37	42	44	50	51	54	55	57	57	55	56	45	46	44	50	53	63	65	62	65	68	69	72	70	61	63	68	67	67	56.2
Southeast Lowlands.																																	
Caruthersville	Maximum...	72	62	55	66	83	88	85	85	89	76	78	85	87	86	80	83	90	93	96	98	100	99	102	101	96	100	99	100	100	102	101	88.3
	Minimum ...	52	47	44	45	47	51	52	54	61	61	58	58	57	55	55	53	52	58	62	62	62	63	68	70	70	68	70	71	70	70	71	59.3
Doniphan..............	Maximum...	63	58	61	63	74	80	77	71	79	73	76	80	80	77	72	72	78	85	87	89	90	90	93	93	91	90	90	95	95	91	93	80.8
	Minimum ...	48	45	39	45	44	45	50	56	56	59	54	52	54	48	54	50	43	48	53	53	56	61	60	63	66	65	65	65	65	63	63	54.5
Jackson................	Maximum...	63	61	52	60	71	75	77	80	80	75	74	80	72	72	69	70	72	85	87	89	91	90	93	92	89	91	90	91	92	91	94	79.6
	Minimum ...	49	42	41	44	44	45	44	55	58	58	53	60	55	45	52	42	41	46	53	51	55	59	59	62	66	64	61	65	65	61	62	53.5
Poplar Bluff§§	Maximum...	69	65	58	66	86	84	77	72	85	79	76	80	79	77	71	77	70	84	86	89	90	90	91	92	91	90	89	94	91	92	93	81.9
	Minimum ...	48	45	40	45	47	48	49	52	56	60	52	53	57	51	55	49	45	51	58	57	60	62	64	65	69	68	65	68	67	66	67	56.1
Cairo, Ill..............	Maximum...	64	53	49	60	71	72	76	80	79	67	71	75	74	71	66	66	73	82	86	86	90	89	90	91	88	90	89	91	89	88	90	77.6
	Minimum ...	50	43	41	44	50	53	53	60	61	61	56	57	61	55	53	51	50	56	62	62	64	68	69	70	72	71	70	71	71	71	72	59.6
Ozark Plateau.																																	
Arcadia §§..............	Maximum...	59	49	53	59	73	77	71	70	76	61	70	81	76	74	69	71	78	82	83	88	88	89	91	91	88	88	85	92	88	88	89	77.3
	Minimum ...	46	41	36	40	43	45	45	49	53	56	54	56	53	44	50	41	40	45	51	51	54	55	60	61	68	65	59	63	63	58	59	51.7
Birchtree	Maximum...	57	53	59	61	72	79	73	63	..	62	71	80	76	73	73	73	79	82	82	85	86	87	90	89	89	85	89	92	88	90	91	[a]77.6
	Minimum ...	45	41	36	41	48	47	53	53	..	52	51	51	55	45	56	45	45	48	56	67	58	60	63	63	68	63	58	60	65	63	63	[a]54.0
Eldon....................	Maximum...	59	60	64	69	81	85	67	67	89	70	71	90	81	65	81	85	89	81	90	95	101	92	91	93	..	..	..	96	98	98	92	[c]82.1
	Minimum ...	46	30	32	34	40	42	50	49	51	55	50	53	51	42	41	42	47	47	53	64	59	59	62	65	..	..	..	56	62	62	62	[c]50.2
Farmington.............	Maximum...	61	43	47	57	69	68	66	74	77	66	65	77	69	64	63	62	72	82	84	90	88	90	91	92	90	88	85	89	89	90	91	75.5
	Minimum ...	47	39	34	40	47	45	46	53	55	55	53	53	57	47	47	42	42	47	56	56	53	57	67	66	68	65	59	63	67	61	61	53.2
Hollister...............	Maximum...	72	62	60	65	70	80	74	75	70	74	78	80	80	75	76	76	82	87	85	86	86	90	94	92	94	94	91	94	93	95	93	81.4
	Minimum ...	46	40	31	40	53	60	60	64	60	59	65	62	60	65	64	65	70	75	76	75	79	80	83	80	82	82	80	82	80	84	82	67.2
Koshkonong...........	Maximum...	61	55	60	61	72	79	74	63	..	..	77	..	79	75	72	..	..	..	..	..	87	87	91	90	90	88	88	93	97	93	94	[b]79.4
	Minimum ...	47	44	37	40	46	50	53	55	..	..	55	..	54	47	52	..	..	..	..	..	61	64	68	69	69	68	60	64	68	66	65	[b]56.6
Lebanon §§............	Maximum...	59	52	58	60	70	77	64	69	76	66	68	79	72	66	68	72	80	88	84	82	87	87	89	89	87	86	83	90	88	89	90	76.6
	Minimum ...	50	39	30	31	39	40	43	52	52	55	55	54	55	46	45	44	47	50	56	53	62	61	64	65	69	67	59	62	64	63	65	52.8
Mountain Grove §§....	Maximum...	53	47	59	60	71	75	65	66	74	65	72	80	73	70	71	73	79	79	80	84	85	86	88	89	90	86	84	96	90	90	89	76.4
	Minimum ...	42	40	33	36	40	42	47	54	54	55	53	52	54	47	47	43	46	51	56	59	63	63	64	66	68	66	60	60	66	63	66	53.4
Neosho.................	Maximum...	76	58	59	61	69	78	73	76	82	81	76	82	81	67	70	76	81	85	85	88	91	89	90	89	89	88	87	91	91	90	92	80.4
	Minimum ...	54	45	30	32	32	39	53	56	52	57	52	48	48	57	46	45	49	48	54	61	60	53	61	65	67	66	61	63	61	62	71	53.2
Rolla	Maximum...	59	53	47	59	61	70	79	65	66	76	61	69	80	72	64	70	74	82	86	83	87	91	91	92	92	89	87	83	92	92	92	76.3
	Minimum ...	47	40	36	40	42	48	52	54	55	56	54	55	58	48	45	44	47	53	58	59	61	61	65	67	69	68	60	63	68	66	65	55.0
Springfield	Maximum...	59	48	56	56	67	73	61	70	76	70	69	77	69	64	67	70	76	80	81	84	84	85	86	86	84	85	82	88	88	87	86	74.6
	Minimum ...	47	41	36	38	44	51	52	58	56	54	55	54	56	51	47	48	52	57	61	64	66	66	66	68	70	60	59	67	68	66	68	56.3
Southwest Plain.																																	
Amoret.................	Maximum....	60	58	59	62	72	74	67	59	76	70	72	81	69	64	66	74	78	85	85	86	88	87	89	89	96	85	85	90	91	88	90	77.3
	Minimum,...	43	32	32	36	38	45	51	54	52	55	54	51	50	46	46	44	52	54	57	64	62	62	64	64	67	58	57	64	66	62	63	53.4
Appleton City.........	Maximum...	62	56	59	59	69	75	70	64	77	74	71	79	77	61	65	72	78	83	84	82	88	87	89	87	89	83	84	91	91	90	86	76.8
	Minimum ...	49	44	36	38	44	47	54	54	55	58	57	54	53	49	48	47	52	54	60	65	64	65	66	66	70	67	60	66	67	65	67	56.2
Clinton	Maximum...	60	62	63	62	75	79	76	64	81	76	71	82	77	70	65	76	83	87	87	91	92	90	92	91	91	85	85	93	94	93	87	80.0
	Minimum ...	48	35	35	38	43	46	55	54	55	58	57	49	53	49	48	45	53	53	57	64	65	63	65	65	69	66	60	64	65	65	66	55.1
Harrisonville §§	Maximum...	59	49	61	62	72	75	61	62	75	73	74	81	70	61	77	70	78	68	84	87	88	86	90	89	90	80	85	83	92	90	91	76.2
	Minimum ...	48	45	35	37	43	48	54	53	54	56	55	59	50	46	46	47	50	55	56	65	61	65	66	66	68	69	60	62	66	66	65	55.3
Lamar §§	Maximum...	67	56	61	65	71	75	65	72	80	74	74	80	73	65	68	73	80	82	85	88	89	88	90	88	88	82	83	90	90	92	93	78.3
	Minimum ...	49	43	32	36	38	43	55	55	53	55	51	50	56	50	46	46	50	52	60	62	63	62	62	63	67	65	59	64	61	63	65	54.3
Lamonte...............	Maximum...	60	56	60	63	73	79	64	62	81	73	72	80	70	61	69	74	81	85	86	89	91	90	92	93	91	82	86	94	96	93	85	78.4
	Minimum ...	48	43	32	35	41	44	55	54	55	58	57	56	51	45	46	46	52	56	59	64	65	64	65	66	69	66	60	64	65	66	66	55.3
Marshall..............	Maximum...	55	55	58	..	61	75	70	62	78	75	78	80	81	65	66	82	84	87	90	94	90	94	95	..	..	90	84	93	93	90	83	[c]78.9
	Minimum ...	48	42	35	..	38	45	52	53	43	55	53	57	49	43	39	50	56	69	60	64	65	60	67	..	..	64	60	64	66	66	68	[c]54.7
Nevada.................	Maximum...	68	56	59	59	70	75	68	67	77	74	75	80	71	65	65	72	78	81	84	86	86	86	88	88	88	81	84	88	89	87	88	76.9
	Minimum ...	49	44	34	37	42	44	55	56	53	57	56	53	54	50	47	45	54	56	59	65	65	65	67	68	70	68	59	67	76	63	65	56.2
Warrensburg	Maximum...	58	60	63	74	80	66	63	..	82	70	81	70	62	68	75	..	87	89	92	93	92	93	95	95	96	..	..	97	97	88	..	[c]80.2
	Minimum ..	44	31	36	44	47	54	51	55	..	57	55	52	45	46	46	54	..	58	66	66	66	67	69	70	60	60	..	..	67	66	65	[d]55.7
Warsaw.................	Maximum...	63	55	59	60	70	80	75	67	80	75	76	81	75	65	68	75	83	87	85	88	90	90	93	91	91	85	84	92	94	93	90	79.4
	Minimum ...	49	42	30	35	38	43	51	54	55	61	56	55	54	47	48	44	51	49	58	66	65	63	63	64	70	66	60	64	61	64	67	54.7
Northwest Plateau.																																	
Chillicothe	Maximum...	55	57	59	65	74	78	65	62	77	76	76	81	66	63	66	72	80	85	88	91	91	94	93	93	94	88	86	94	94	93	85	78.7
	Minimum ...	44	40	32	37	40	43	51	55	55	57	56	54	48	40	39	45	53	56	57	67	65	67	64	66	67	67	60	60	64	68	65	54.3
Grant City.............	Maximum...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Kansas City	Maximum...	57	56	58	60	71	74	63	62	75	72	69	79	66	58	64	70	79	82	84	87	87	89	89	89	89	81	83	92	93	91	87	76.0
	Minimum ...	45	44	40	41	48	52	51	54	56	56	58	55	53	43	45	49	57	61	63	68	68	70	71	73	74	62	61	70	74	69	67	58.1
Kidder §§	Maximum...	55	57	56	71	74	74	69	75	75	67	78	67	61	65	71	69	75	77	83	87	87	90	91	90	89	91	93	91	94	90	84	77.4
	Minimum ...	42	43	45	41	48	53	52	51	55	57	55	47	39	42	39	50	55	55	60	65	64	65	67	63	67	69	63	69	65	67	64	55.7
Lexington §§	Maximum...	56	56	60	62	72	76	70	63	77	74	72	81	75	63	67	72	80	81	85	88	90	90	90	91	92	85	85	95	95	92	84	78.1
	Minimum ...	49	43	35	43	45	47	55	54	54	57	59	56	51	44	45	46	52	56	58	68	65	68	69	70	71	69	60	64	67	67	66	56.6
Maryville §§	Maximum...	51	56	60	63	72	76	67	60	74	72	67	77	63	53	64	70	80	84	83	87	88	90	90	91	91	82	81	92	94	90	81	76.0
	Minimum ...	40	31	31	33	38	40	49	51	53	52	52	51	43	34	34	40	49	55	55	57	64	63	65	65	66	65	54	56	64	63	61	50.6
Oregon.................	Maximum...	57	56	58	61	71	72	69	64	74	70	70	77	68	59	64	70	78	80	87	88	87	90	88	90	91	85	84	92	94	90	81	76.3
	Minimum ...	42	37	34	36	41	50	50	52	54	53	55	50	45	37	37	45	55	57	59	67	64	65	66	69	67	67	54	65	67	65	60	53.8
St. Joseph.............	Maximum...	57	57	61	64	73	74	62	62	76	73	68	78	64	57	64	71	81	83	85	88	89	90	90	91	90	85	84	92	93	91	84	76.7
	Minimum ...	44	41	35	38	42	46	54	55	56	56	57	52	50	40	42	49	58	60	62	68	69	71	73	72	74	60	60	62	70	69	65	56.5
Trenton	Maximum...	55	51	57	59	69	71	69	61	74	73	67	76	68	58	62	68	79	80	83	86	89	89	91	92	91	86	82	87	90	91	86	75.6
	Minimum...	48	42	33	38	44	48	50	44	54	56	57	56	49	40	41	45	50	55	53	60	65	66	69	69	70	69	62	63	67	68	65	54.7

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

.05
YMS

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXV. COLUMBIA, MO., JUNE, 1921. No. 6.

GENERAL SUMMARY.

June, 1921, in Missouri, was a warm month. The warmth was due to persistently high daily mean temperatures rather than to any extremely high day temperatures alone. While the temperature was 90° or higher on many days, the 100° value was reached only on two days, at two stations.

The steadiness of the heat was the remarkable feature. At Columbia, the section center, the accummulation of temperature from January 1 to June 30 amounted to 1042°, despite the fact that there have been several, though short, cool periods. No other six months of any year since 1888, the beginning of climatological observations, in Missouri, is comparable with this record. The sunshine and wind movement varied but little from their normal values. It was excessively wet in some localities, moderately so in others, and relatively dry in a few.

At the close of the month wheat harvest was farther advanced than usual, the hot weather having forced the grain too rapidly. Corn made fine growth; and pastures and meadows were in satisfactory condition.

TEMPERATURE.

The monthly mean temperature for the State, 66 stations reporting, was 76.6°. The departure from the normal for 62 stations having 10 or more years' record was plus 3.4°. The month was warmer than usual in all sections but the excess in warmth was somewhat less marked in the Ozark Pleateau and Southwest Plain than in the other divisions. From about the 3rd to the 10th, and 22nd to the 27th, temperatures were normal or a few degrees below, but the rest of the month was hot. There were 13 days with temperatures of 90° or higher, but only two stations reported 100° or higher, on three days, the 1st, 13th, and 17th.

PRECIPITATION.

The average precipitation for the State, 83 stations reporting, was 5.71 inches. The departure from the normal for 71 stations having 10 or more years' record was plus 1.15 inches. Precipitation was generally ample, and rather excessive in the southwestern part of the State, including the western part of of the Ozarks. It was, however, less than normal in several of the southeastern counties, one or two of the northeast, and along and north and west of the Missouri River from about Warren to Nodaway County. The heaviest monthly fall was 11.39 inches, at Warsaw. Heavy amounts also fell at Dean, Mountain Grove, Lebanon, Rolla, Springfield, and Nevada. The greatest fall in any 24-consecutive hours was 4.14 inches, at Rolla on the 8th. There were only a few days on which no rain fell, but the heaviest and most continuous spells were probably from the 7th to the 11th, and 22nd to the 28th.

WIND.

The prevailing winds were from the southwest. The average wind movement was 5,352 miles, 7.4 per hour, or about normal. No wind damage was reported.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, based upon the records of 6 well placed stations with sunshine recorders, was 304 or about 68 per cent of the possible and about 2 per cent less than normal.

MISCELLANEOUS PHENOMENA.

No hail reported.

Halos, solar.—2nd, 7th, 15th, 20th, 23rd, and 27th.

Halos, lunar.—13th, 20th, 21st, and 22nd.

Thunderstorms, general.—2nd, 7th, 8th, 9th, 10th, 14th, 15th, 19th, 20th, 22nd, 25th, 26th, 27th, and 30th.

The telegraph and telephone services at Poplar Bluff, Mo., were temporarily crippled by an electric storm on the 14th. And a youth, Clarence Schroeder, 16 years old, was struck and instantly killed, at St. Charles, Mo. He was unloading a wagon by the side of a threshing machine. Another man, his companion, was stunned but revived several minutes later.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.93	86	68	298	67	4,132	5.7	20	ne.	4
Hannibal	29.94	79	..	...	..	5,005	6.9	34	s.	1
Kansas City	29.91	82	61	341	77	6,015	8.4	30	n.	2
St. Joseph	29 89	82	60	312	70	4,529	6.2	22	w.	16
St. Louis	29.95	75	61	328	74	7,813	10.9	48	n.	20
Springfield	29.96	87	79	247	56	5,977	8.3	31	w.	19
Cairo, Ill	29.95	82	65	...	..	5,254	7.3	32	sw.	24
Keokuk, Iowa	29.96	78	59	293	65	4,090	5.7	31	w.	20

COMPARATIVE DATA FOR JUNE.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	72.6	−0.5	103	37	6.20	+1.26	......	0	7	.....	.....	.....
1889	70.7	−2.4	100	38	4.66	−0.28	......	0	6	.....	.....	.....
1890	77.2	+4.1	105	50	2.59	−2.35	......	0	6	.....	.....	.....
1891	73.3	+0.2	103	46	6.94	+2.00	......	0	13	.....	.....	.....
1892	74.5	+1.4	100	38	3.18	−1.76	4.25	0	7	15	9	6
1893	72.6	−0.5	98	42	4.61	−0.31	3.60	0	9	12	12	6
1894	74.5	+1.4	105	30	3.92	−1.02	3.48	0	7	16	11	3
1895	73.2	+0.1	100	42	5.77	+0.83	3.85	0	10	12	11	7
1896	72.5	−0.6	101	45	8.32	+3.38	5.60	0	9	12	11	7
1897	73 6	+0.5	192	38	6.18	+1.24	6.40	0	12	9	14	7
1898	75.3	+2.2	100	42	5.88	+0.94	8.15	0	9	13	12	5
1899	74.3	+1.2	101	42	3.87	−1.07	4.48	0	9	15	10	5
1900	73.3	+0.2	103	44	4.79	−0.15	5 06	0	10	12	12	6
1901	77.9	+4 8	110	40	2.13	−2.81	2.99	0	6	18	10	2
1902	70.9	−2.2	100	37	6.57	+1.63	6.08	0	12	11	10	9
1903	67.3	−4.2	95	36	3.25	−1.69	4.90	0	9	15	9	6
1904	70.5	−2.6	93	45	6.42	+1.58	5.41	0	11	12	12	6
1905	75.2	+2.1	103	42	3.09	−1.85	4.80	0	7	15	10	5
1906	72.7	−0.4	101	40	4.95	+0.01	4.07	0	10	15	9	6
1907	71.2	−1.9	97	40	5.84	+0.90	3.90	0	11	14	10	6
1908	72.3	−0.8	98	43	6.30	+1.36	5.30	0	11	13	10	7
1909	73.9	+0.8	98	49	5.21	+0.27	4.12	0	11	11	13	6
1910	70.4	−2 7	99	38	3.92	−1.02	3.70	0	8	16	7	7
1911	78.9	+5.8	112	43	1.78	−3.16	2.07	0	6	18	8	4
1912	69.5	−3.6	100	42	4.78	−0.16	5.60	0	9	14	8	8
1913	75.4	+2 6	107	33	2.57	−2.22	3.05	0	6	18	8	4
1914	79.3	+6.2	106	43	2.37	−2.29	3.50	0	5	18	7	5
1915	70.8	−2.5	98	38	6.51	+1.87	4.86	0	12	11	10	9
1916	70.0	−3.2	100	42	6.99	+1.17	6.75	0	10	14	9	7
1917	71.0	−2 3	103	35	3.78	−0.59	4.19	0	8	19	7	4
1918	77.2	+3.9	110	48	3.15	−1.36	4.28	0	7	17	8	5
1919	75.0	+1.9	104	44	5.59	+1.11	4.21	0	11	14	10	6
1920	72.7	−0.5	104	41	2.35	−2.16	3.74	0	6	18	7	5
1921	76.6	+3.4	195	44	5.71	+1.15	4.14	0	12	12	10	8

Climatological Data for June, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	78.0	+5.2	97	19	51	5	35	4.59	−0.90	0.92	0	12	16	0	14	se.	O.K. Benecke
Clifton Hill	Randolph	731	22	77.0	+4.7	97	19	51	5†	36	4.35	−1.21	1.60	0	8	18	11	1	......	L. S. Harlan.
Columbia	Boone	748	31	75.7	+1.2	92	19	51	5	29	3.18	−1.20	0.81	0	11	9	12	9	s.	U. S. Weather Bureau.
Downing	Schuyler	878	11	75.7	.....	95	13†	45	5	33	6.41	+2.08	2.20	0	12	19	6	5	e.	E. E. St. Clair.
Fayette	Howard	661	38	73.0^{a}	−0.2	90	15†	50	5†	25	6.67	+1.98	1.84	0	7	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	29	76.2	+3.0	95	19	47	6	37	2.74	−1.97	0.67	0	12	11	11	8	sw.	Westminster College.
Gorin	Scotland	700	34	....	.....	..	..	..	..	..	3.72	−0.04	0.74	0	12	12	3	15	sw.	J. W. Pulliam.
Hannibal	Marion	534	37	77.5	+4.2	96	13	52	5	27	3.52	0.00	0.71	0	14	10	9	11	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	38	76.4	+2.4	94	19	52	5	32	6.84	+2.82	1.00	0	15	21	1	8	s.	Miss Emma Swift.
Kirksville	Adair	969	39	75.6^{b}	+3.7	95	19	47	5	30	6.19	+1.80	1.15	0	10	17^{b}	6^{b}	5^{b}	ne.	Prof. J. S. Stokes.
Louisiana	Pike	469	40	76.8	+5.1	95	14†	45	6	35	7.28	+3.23	1.10	0	15	15	10	5	s.	J. T. Farrell.
Macon	Macon	875	28	77.5	+5.1	97	13†	48	5	40	3.64	−1.11	0.92	0	11	17	9	4	se.	W. C. Brown.
Mexico	Audrain	800	43	76.7	+3.1	97	19	48	5	37	4.82	−0.12	1.33	0	11	16	4	10	se.	Mrs. Abbie Snoddy.
Palmyra	Marion	652	22	76.4	+2.0	97	12	54	6	27	4.15	−0.54	0.70	0	12	13	12	5	sw.	W. B. Markell.
St. Catherine	Linn	800	12	74.4	.....	94	13†	48	5	29	8.58	......	1.84	0	15	11	10	9	sw.	L. D. Baker.
St. Charles	St. Charles	456	43	77.8	+3.8	96	30	51	5†	34	5.24	+1.08	1.00	0	14	9	13	8	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	83	78.4	+3.6	94	13	53	5	25	2.31	−2.16	0.60	0	12	11	14	5	s.	U. S. Weather Bureau.
St. Louis (2)	....do	578	9	77.8	+2.9	94	13†	53	5	26	4.27	+0.51	0.76	0	14	12	15	3	s.	St. Louis University.
Shelbina	Shelby	779	28	....	.....	..	..	..	..	..	3.00	−2.09	1.53	0	5	..	..	..	......	S. G. Parsons.
Steffenville	Lewis	650	28	77.8	+5.0	99	13	49	6	36	4.82	+0.65	1.40	0	9	13	12	5	ne.	Frank Hall.
Unionville	Putnam	1,062	28	75.4	+3.4	94	17†	46	5	33	6.51	+2.09	2.06	0	11	15	3	12	sw.	Geo. W. Davis.
Warrenton	Warren	816	31	77.0	+3.6	96	19	49	5	34	3.27	−1.08	1.27	0	13	4	18	8	s.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	49	77.5	+5.0	96	19	49	5	29	2.53	−1.82	1.33	0	9	6	12	12	sw.	U. S. Weather Bureau.
Section means and	extremes	.....	..	76.6	+3.6	99	13	45	5	40	4.95	+0.12	2.20	0	13	13	9	8	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	84.8	+7.0	105	1†	64	6	38	2.56	−1.42	0.50	0	8	22	6	2	e.	H. E. Averill.
Doniphan	Ripley	344	17	78.8	+4.0	96	19†	55	6	35	5.23	+0.85	1.70	0	10	16	12	2	sw.	W. W. Martin.
Jackson	Cape Girardeau	428	31	78.2	+4.1	98	18	49	6	39	5.49	+1.20	0.95	0	14	3	9	18	s.	John G. Putz.
Marble Hill	Bollinger	470	27	77.8	+3.9	95	2†	49	6	39	6.28	+2.11	1.10	0	12	11	18	1	s.	R. A. DeWitt.
Parma	New Madrid	281	..	....	.....	..	..	..	..	..	3.92	......	0.84	0	11	..	..	..	......	J. E. Pearce.
Patton (near)	Bollinger	500	11	....	.....	..	..	..	..	..	9.48	+5.81	1.56	0	12	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	339	17	78.8	+3.4	94	1†	56	5	34	3.10	−1.92	0.88	0	9	10	3	17	......	....
Vanduser	Scott	304	..	....	.....	..	..	..	..	..	5.50	......	1.51	0	11	..	..	..	......	M. L. Armstrong.
Cairo, Ill.	Alexander, Ill	359	49	79.2	+4.0	94	18	60	6	25	1.83	−2.48	0.45	0	11	5	16	9	sw.	U. S. Weather Bureau
Section means and	extremes	....	..	79.6	+4.4	105	1†	49	6	39	4.82	+0.59	1.70	0	11	11	11	8	s.	
Ozark Plateau.																				
Arcadia	Iron	926	43	75.0	+3.0	94	19	45	6	41	4.30	−0.28	1.78	0	10	10^{a}	9^{a}	10^{a}	s.	Arcadia College.
Birchtree	Shannon	1,000	28	75.3	+2.6	93	19	53	5	34	5.41	+0.88	2.35	0	12	14	13	3	sw.	V. H. Kirkendall
Bolivar	Polk	1,071	32	....	.....	93	19	..	..	45	6.45	+1.43	1.90	0	16	13	12	5	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	74.7	+1.7	93	1	54	6	34	10.32	+5.05	2.74	0	16	14	6	10	e.	H. E. Dean.
Eldon	Miller	934	22	76.7	+3.5	101	1†	44	5	49	6.47	+2.16	2.10	0	13	5	13	12	s.	E. H. Shepherd.
Farmington	St. Francois	918	24	76.0	+3.4	93	1†	48	6	38	3.43	−1.20	0.76	0	11	12	17	1	sw.	Robert Forsyth.
Gano ‡‡	Dent	1,250	20	74.2	+1.4	94	19	47	5†	40	5.10	+0.80	0.88	0	13	13	14	3	sw.	A. C. Leach.
Goodland	Iron	1,000	28	77.2	+5.1	93	20	44	6	44	5.84	+1.74	1.68	0	11	12	15	3	s.	F. M. Adams.
Hollister	Taney	735	18	80.5	+4.8	95	1	70	4	21	7.85	+3.84	1.40	0	14	13	7	10	sw.	W. P. Chapmann.
Houston	Texas	1,280	29	75.3	+3.0	94	1	47	6	42	6.36	+1.70	1.33	0	14	5	19	6	sw.	Walter T. Beard.
Koshkonong	Oregon	958	20	77.8	+3.5	95	1†	57	5	30	3.64	−0.84	0.89	0	12	9	16	5	sw.	R. M. Hitt.
Lebanon	Laclede	1,265	34	75.0	+1.9	93	28†	51	5	31	9.52	+4.59	4.00	0	14	15	4	11	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	75.6	+1.6	90	1†	55	6	30	8.03	+3.23	2.30	0	15	12	7	11	sw.	C. S. Crow.
Mountain Grove	Wright	1,463	25	74.8	+3.2	91	2†	53	5	30	10.07	+5.51	2.31	0	13	10	8	12	sw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	75.7	+1.8	92	1†	56	6	32	7.38	+1.95	1.40	0	18	13	14	3	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	76.4	+3.6	93	12†	52	5	36	9.04	+4.91	4.14	0	12	13	14	3	sw.	Prof. Elmo G. Harris.
Seymour	Webster	1,642	16	75.5	+3.5	89	1†	63	4	22	10.45	+5.82	2.00	0	19	9	13	8	sw.	Ira H. Hailey.
Springfield	Greene	1,350	42	74.2	+1.9	88	1	56	5	24	9.68	+4.49	2.89	0	17	11	12	7	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	75.5	+2.6	101	1†	44	5†	49	7.19	+2.54	4.14	0	14	11	12	7	sw.	
Southwest Plain.																				
Amoret	Bates	831	15	74.9	+1.4	93	20	51	6	34	6.56	+2.70	1.81	0	13	16	3	11	sw.	Darby Fruit Farm.
Appleton City	St. Clair	853	29	76.2	+1.4	92	28†	53	5	29	7.86	+2.87	1.60	0	12	13	14	3	sw.	W. G. Bigelow.
Clinton	Henry	765	34	77.6	+4.2	95	17†	55	6	34	6.60	+1.87	1.68	0	10	14	10	6	sw.	A. E. Derwent, M. D
Harrisonville	Cass	904	46	75.4	+2.0	93	17†	55	5†	32	7.47	+3.01	2.29	0	13	12	5	13	s.	John H. Patterson.
Lamar	Barton	980	40	76.8	+2.4	95	20	55	5†	34	6.22	+1.26	1.50	0	14	14	0	16	s.	Joe W. Springer.
Lamonte	Pettis	867	35	....	.....	..	..	..	..	..	....	......	....	..	..	..	..	..	......	George B. Wagner.
Marshall	Saline	779	32	76.3^{a}	+2.4	95	19†	49	5	29	6.27	+1.95	2.05	0	10	12	10	8	sw.	Dr. W. H. Black.
Nevada	Vernon	862	30	75.2	+1.6	93	18	54	5†	32	10.30	+5.19	2.01	0	13	12	8	10	s.	George A. Kaupp.
Warrensburg	Johnson	878	43	....	.....	..	..	..	..	..	....	......	....	..	..	..	..	..	......	S. I. Major.
Warsaw	Benton	687	26	76.5	+2.8	93	17†	52	6	33	11.39	+6.22	2.10	0	14	10	19	1	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	76.1	+2.3	95	17†	49	5	34	7.83	+3.13	2.29	0	12	13	8	9	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	24	76.6	+3.5	94	19	51	5	31	5.51	+0.95	3.00	0	9	14	16	0	sw	F. G. Ashbaugh.
Bethany	Harrison	916	30	79.6^{j}	+7.7	97	19†	49	5	34	2.64	−1.60	0.87	0	6	5^{j}	7^{j}	8^{j}	sw.	M. H. Moulton.
Chillicothe	Livingston	779	13	77.1	+3.3	97	13†	51	5	33	3.09	−2.82	0.79	0	11	18	0	12	sw.	G. L. Fellinger.
Conception	Nodaway	980	37	77.0	+5.9	99	17†	49	5	34	2.54	−1.91	1.09	0	7	13	11	6	sw.	Fr. Adelhelm Hess.
Edgerton	Platte	856	9	65.3^{a}	.....	95	28	49	6	36	8.02	+2.44	2.14	0	13	17	4	9	se.	Fred L. Stiff.
Grant City	Worth	1,134	30	....	.....	..	..	..	..	..	....	......	....	..	..	..	..	..	.....	J. E. Engle.
Kansas City	Jackson	963	32	77.0	+4.0	94	28	54	5	25	9.67	+5.01	3.52	0	12	15	6	9	s.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	34	76.6	+4.5	96	17†	50	6	36	3.64	−0.75	1.62	0	11	15	4	11	ne.	Linn Terry.
Lexington	Lafayette	688	39	77.0	+4.2	95	20	51	5	28	3.45	−1.32	1.16	0	11	14	9	7	s.	Edwin G. Loomis.
Liberty	Clay	859	31	76.6	+2.9	95	17†	51	5	32	6.05	+1.14	1.78	0	12	14	8	8	ne.	James H. Harris.
Maryville	Nodaway	1,036	27	74.8	+5.9	96	19	49	5†	35	3.03	−1.51	0.67	0	12	17	1	12	s.	J. R. Brink.
Oregon	Holt	1,048	66	75.2	+2.9	93	28†	50	5	31	5.19	+0.45	1.63	0	9	16	12	2	s.	Tom Curry.
St. Joseph	Buchanan	967	49	77.4	+3.5	95	17	54	5	29	4.37	−0.31	1.28	0	11	17	4	9	e.	U. S. Weather Bureau.
Tarkio	Atchison	916	28	....	.....	..	..	..	..	..	....	......	....	..	..	.	..	..	....	John F. Frazier.
Trenton	Grundy	822	26	76.2	+3.8	93	17†	52	5	25	4.99	+1.00	1.06	0	13	17	9	4	s.	W. H. Estes.
Section means and	extremes	.....	..	76.8	+4.3	99	17†	49	5†	36	4.51	−0.14	3.52	0	10	15	7	8	s.	
State means and	extremes	.....	..	76.6	+3.4	105	1†	44	5†	49	5.71	+1.15	4.14	0	12	12	10	8	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for June, 1921.

Stations.	Drainage-basins.	Day of month.																														Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	.85		.02					.42	.52	3.00	1.25			.09	T.					.57			.08	1.40	.30	.02	.62	.04				9.18
Brunswick‖	Grand								.20	.45	.40	.30				.20						.09			.92	.45	.56	.15	.12	.75			4.59
Clifton Hill	Chariton							.14		.25	1.60													T.	T.	1.60	.04	.36	.03		.33			4.35
Columbia***	Missouri			.13				.64	.45	.27	.18	.03											.25	.07	.76	T.	.01	.39		T.			3.18
Downing	Mississippi	.45	.93					.06		.12	.24				2.20						.51				.86	.60	.23	.02		.19			6.41
Fayette‖	Missouri							.75	.48	1.70	.29									T.		.21		1.40			1.84						6.67
Fulton	do		.01	.34				.15	.50	.10	.04												.25	.02	.24	.05	T.	.67			.37		2.74
Gorin	Mississippi	.56						.26	.04	.07	.13				.17	.44					.22				.74	.39	.41	.29					3.72
Hannibal***	do	.33		T.				.17	.18	.02	.36				.24	.01				.65	.06		.12	T.	.63	.51	.07	.17					3.52
Hermann‖	Missouri			.15					1.22	1.10	.05	.51	.04									.05	.03	1.10	.05	.17	.01	.03					4.51
Jefferson City‖	do			.42					.92	1.00	.15	.85	.05		.02	.35					.20		.30	.80	.52	.08		.62	.56				6.84
Kirksville	Mississippi	.96	.30						T.		.80				.08						.37				.78	1.15	.98	.48		.29			6.19
Louisiana	do		.04	.85				.10	1.01		.45					.18					.10	.98	.70	.25	.45	.02	1.10	.70	.35				7.28
Macon ‖	Chariton	.72							.15	.04	.23											T.			.78	.92	.16	.13	.35	.14	.02		3.64
Mexico ‖	Mississippi			.35					.20	1.33	.05	.85												.27	.60	.01		.35	.78		.03		4.82
Pacific ‖	Meramec			.09					.15	.20	.22	1.80				.80						.60		.53		.16	.62	.35	.12				5.64
Palmyra‖	Mississippi								.39	.27	.16	.47			.31		.10			.70				.05	.47	.67	.46		.10				4.15
St. Catherine	Grand	.15	.05					.02	.05	.07	.55			.11	.10						.81		T.		1.84	.40	1.46	1.82	.02	1.13			8.58
St. Charles	Missouri		T.	.35				.20	.24	.02	.39	.40			.58	.62					1.00		.43		.11		.48	.37			.05		5.24
St. Louis (1)***	Mississippi		.09					.13	.54	.01	.57				.15	T.				.01	.03		.10		T.	.35	.20	.13			T.		2.31
St. Louis (2)	do		.41					.15	.39	.02	.76				.13					.40	.58		.24	T.	.03	.16	.03	.35			.62		4.27
Shelbina	do							.30	.12	.25														1.53			.80					3.00
Steffenville	do	T.						T	.03	.35	.90		.90	.40		.70							T.		1.40	.04	.10				T.		4.82
Union‖	Meramec	.10		.55					.20	2.33	28	.89				.50						.15		.30		.15	.15	.01	.01				5.62
Unionville	Chariton	.10	1.40	T.							.75	1.10			.30						.15				.20	1.76	.30	.10	T.	.35			6.51
Valley Park‖	Meramec			.06					.48	.20	.46	.30				.06	T.					.26		.30		.07	.13	.64	.06				3.02
Warrenton‖	Mississippi			.01	.05				.30	.12	.18	1.27				.04	.25					T.	.02	.89		.04	.09	T.	.01				3.27
Keokuk, Iowa***	do	.01						T.	.01	.06	.01				.91	T.			.14		T.		T.	T.	1.33	.04	.02	T.					2.53
Southeast Lowlands.																																	
Cape Girardeau‖	Mississippi			.03					.20	.02	.49	.31	.12								.69	.03			.80				.40		.12		3.21
Caruthersville	do		T.					.15	.25	T.	.50	T.	T.						.40	.45					.40	T.			.38	.03			2.56
Doniphan	Black								.22	.60	.95	.05									.07	.03		.20			.91	.50		1.70			5.23
Jackson	Mississippi		.95					.06	.13	.10	.03	.17			.60					.78	.21	.95			.54	.24		.31		.42			5.49
Marble Hill	do							.25	.75	.23	.55	1.10										.50		.25	.60	1.10		.50	.15	.30			6.28
New Madrid‖	do			.15					.16			.45											1.65		.20	.35			1 35	.03	.75		5.09
Parma	do							.81	.47	.05	.05	.73				.10						.62				.10	.10		.84	.05			3.92
Patton (near)	do								.65	.38		1.54			.24						.78	1.14	.23	.64	1 06	.58		.68		1.56			9.48
Poplar Bluff ‖	Black								.37	T.	.88	.04				.18					.88		.02		.28	T.			.34		.11		3.10
Vanduser	Mississippi			1.10				.03	.15	.46	.80	.07								.78		45		1.51		.07		.08					5.50
Cairo, Ill.***	do		.45					T.	T.	.07	.14	.21	T.		.24	.01				.26		T.		.05	.02			.01	.37	T.			1.83
Ozark Plateau.																																	
Arcadia‖	St. Francis				T.				.42	.16	1.78	.12				.12							.79	T.	.10	.12	.11		.58		T.		4.30
Arlington	Gasconade			2.45					2.00	.10	.20	.25			1.50	.60					.05				.25	.05		.60	.80		.75		9.60
Birchtree	Black		.40						.13	.30	.18	.21			.58	.05								.38	.37	.16		.30		2.35			5.41
Bolivar	Osage		.33	.05				.95	.12	.29	.63	.10			T.	T.				.10		.29	.19	.40	1.90	.30	T.	.37	.29		.14		6.45
Dean	Neosho		.10	1.12				2.74	.18	.02	.97	.03								.24	.01	.13	2.69	.89	.36	.52		.02		.30			10.32
Eldon	Osage			.24				.52	.39	.31	.09	.06											.21	.03	1.83	**	2.10	.52	.05	.12			6.47
Farmington	St. Francis							.08	.76	.05	.61	.46			T.	.07						T.	.03	.17		T.	T.	.45	.13	.62			3.43
Gano	Meramec		.56	T.				T.	.62	.43	.40	.81				T.					.40		.26	.12	.06		.06	.65	.23		.50		5.10
Goodland	Black								.96	.13	.50	1.68				.50						.30				.25	.28	.30	.18		.76		5.84
Hollister	White			1.15	.15			.15	.45	1 20	.45			.65						.20	.40	.45		1.40	.35	.45	.40						7.85
Houston	Gasconade		.19	.12	T.			.12	.57	.81	.19	1.33	.29							.27		.50		.10	.50		T.	.85	.52	T.			6.36
Koshkonong	Black								.08	.22	.31	.75				.26						.22		.09	.17	.17		.89	T.	.26	.22		3.64
Lebanon ‖	Osage			.25	.13			.04	2.04	.32	.57	16			.06						.05		.03		4.00	.30		.34	1.23				9.52
Lockwood	do		.38					1.06	.18	.68	.51	.02		.08					.15	.03				.17	2.30	.61	.05	1.58	.23	T.			8.03
Mountain Grove‖	White			2.12					1.05	.53		1.40				.05	.12						.05		2.31	.36	.10	.15	1.21		.62		10.07
Neosho	Neosho		.22	.50				.57	22	.29	.55	.02		.59						.04	.46	.17	.03	1.40	1.32	.38	.30	.07			.25		7.38
Rolla‖	Meramec			.77					4.14	.05	.94	.45			.43	T.						.12			.18	T.	.19	.37	.59		.81		9.04
Seymour	White		.22	2.00	1.55			.20	.10	.70	.25	.01		.53		.36				T.	.25	.01		1.05	1.10	.08	.17	1.62	.07		.18		10.45
Springfield***	do		.68	.41				.49	.07	.74	.24			.62	T.	.12				.67	.37	T.	.01	2.08	.08	.07	T.	2.37	.52		.14		9.68
Steelville‖	Meramec			.14					.62		.36	.80					.02					.22	.06		.02	.03	.01	.02	.68		.74		3.72
Tuscumbia‖	Osage			1.78					.70	.15	.16	.82	.06		.34								.16		.92	.13	.19	1.43	.36				7.20
Southwest Plain.																																	
Amoret	Osage			.22				.07	.60	.04	.78	.03								T.	.10		.42	.14	1.64	.29	.42	1.81					6.56
Appleton City	do		T.	1.60				.22	1.07	.15	.48	.01		T						T.			.06	.14	1.51	.77	1.23	.62					7.86
Clinton	do			.40				.20	.15	.50	.65												.97	1.68		.58	.52	.95					6.60
Harrisonville‖	do	T.	.02							2.29	.96				1.26	.40		.04			.02			.10	1.44	.33	.31	.15	.15				7.47
Lamar‖	Neosho		.15	.02		.04		.02	.74	.26	.13	.20									.20	.78	T.		1.50	.38	.60		1.20				6.22
Lamonte	Missouri			.02				.03	.66	.50	.32												1.17	.07	1.58	.31	.60	1.94	0.7				7.27
Marshall	do			T.					.48	.73	2.05	T.		T.	.20	.08	T.			.48			T.	.03	1.17		.45	T.	.60				6.27
Nevada	Osage	T.	T.	1.10				.67	.57	.11	.47	T.		T.						.94	T.		.03	.14	1.98	.79	2.01	.74	.75				10.30
Osceola‖	do	.09		.31				.10	.40	.10	1.40				1.55										2.15	.55	.18	.20	.40				7.43
Warrensburg	Missouri																															....
Warsaw	Osage			.48				2.10	1.86	.30	.48									.15			.35	.12	1.95	1.25	.37	1.52	.40		.06		11.39
Waverly ‖	Missouri							T.	1.75	.55	.04	.01						T.					T.		1.10	.14	.40	1.45	1.67				7.11
Northwest Plateau.																																	
Avalon	Grand	.45	.10					.30		.38					.15										1.40	1.60	.75	.38					5.51
Bethany	do	.45	.87	T.				T												T.	T.				.86	.26	T.	T.		.10	.10		2.64
Chillicothe	do		.04	.11					.16		.05	.03				.04										.79	.08	.72	.44	.63				3.09
Conception	Missouri	1.09							T.	T.	.03				.20			.04							.78	.16	.24						2.54
Edgerton	Grand		.28					1.46	1.02	.36	.07				1.79	.02								.30	2.14	.16	.24	.02			.16		8.02
Grant City	do																															....
Kansas City***	Missouri		.06	T.	.01			3.09	.46	.66	.08				.26		T.						.03	.19	2.05	.20	2.58						9.67
Kidder ‖	Grand		.26	.38					.10		.02				.17						.02				1.62	.10	.32	.62	.03				3.64
Lexington ‖	Missouri								.16	.40	.20	.03				.25		.30							1.16	.27	.09	.54	.05				3.45
Liberty	do		.32		T.			1.74	.79	.19	.09				.11		T.						.01	.33	1.78	.15	.53	.01					6.05
Maryville ‖	do	.02	.67	.16					.04	.06		.07				.33		.06			T.				.11	.61	.28	.62					3.03
Oregon	do		1.63					.08			20				.05		.62						T.	.75	.86	.15	.85						5.19
St. Joseph***	do		.42					.27	.05	.75	.06				.27			.01		T.			T.	T.	1.28	1.00	.25				.01		4.37
Tarkio	do																															....
Trenton	Grand	1.06	.31					.04	.02	.39	.03				.16	T					.24			1.05	.65	.61	.34	.09			T.		4.99

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for June, 1921.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	93	88	74	80	79	88	87	85	79	83	94	96	96	90	92	94	95	95	97	88	93	81	81	88	84	85	83	[illegible]	95	97	..	88.5
	Minimum	68	66	65	61	51	53	56	66	67	68	69	68	71	72	71	72	73	72	71	74	67	69	69	67	68	71	71	69	69	72	..	67.5
Columbia	Maximum	90	83	74	74	74	82	76	82	76	79	87	90	91	88	89	89	90	90	92	90	89	81	79	83	81	83	82	88	89	91	..	84.4
	Minimum	70	67	65	57	51	53	62	65	67	68	68	67	70	71	69	71	71	72	70	68	67	69	68	68	68	70	68	68	72	70	..	67.0
Fayette§§	Maximum	82	70	70	72	75	73	80	73	74	83	85	88	85	85	90	88	90	89	88	90	78	78	80	75	76	78	85	89	90	..	..	[a]81.3
	Minimum	62	65	65	58	50	50	60	65	65	65	65	65	68	70	68	68	70	68	68	67	64	66	65	64	64	68	65	65	69	70	..	64.7
Hannibal	Maximum	89	86	74	73	75	82	76	79	84	81	90	92	96	90	89	91	93	92	95	89	91	87	87	85	85	84	83	91	90	94	..	86.4
	Minimum	68	69	66	58	52	55	58	67	69	70	69	71	72	73	70	72	74	76	74	71	67	71	69	71	67	72	72	71	73	71	..	68.6
Jefferson City §§	Maximum	92	90	76	75	76	85	77	81	78	79	90	92	92	90	90	90	91	92	94	92	91	79	80	85	82	84	80	92	92	92	..	86.0
	Minimum	67	67	68	59	52	53	61	65	66	68	66	66	70	69	69	70	70	71	71	67	67	69	67	69	68	69	69	67	72	70	..	66.7
Kirksville	Maximum	83	85	80	72	72	82	81	82	83	82	92	92	94	89	90	91	93	91	95	85	..	..	89	81	80	81	82	92	92	92	..	[b]85.8
	Minimum	65	65	60	57	47	60	59	64	69	68	63	68	71	70	67	68	72	74	72	62	..	..	62	62	65	68	69	69	[illegible]	70	..	[b]65.3
Louisiana	Maximum	90	92	85	76	75	80	84	75	82	83	86	90	94	95	93	90	90	92	95	92	93	90	84	84	88	86	80	86	92	92	..	87.1
	Minimum	62	64	65	58	50	45	52	64	67	68	68	68	68	70	68	80	70	75	67	74	65	68	68	70	67	76	68	68	70	68	..	66.4
Macon §§	Maximum	94	88	76	80	80	89	82	86	84	85	96	96	97	92	95	95	96	95	97	89	94	91	86	86	85	85	86	94	92	95	..	89.5
	Minimum	66	65	63	55	48	49	58	64	66	66	67	69	71	71	66	70	71	73	71	69	65	67	66	66	65	66	70	66	68	68	..	65.5
Mexico §§	Maximum	94	86	75	75	78	87	78	82	82	81	89	93	95	92	91	93	93	94	97	92	91	84	82	88	86	89	85	92	82	93	..	87.3
	Minimum	62	66	65	58	48	50	58	63	64	68	68	67	69	70	69	69	70	73	73	69	65	71	67	69	68	68	70	68	72	67	..	66.1
St. Catherine	Maximum	80	83	76	72	73	82	81	80	78	79	90	90	94	88	86	88	90	92	94	84	89	84	88	79	79	79	82	90	85	86	..	84.0
	Minimum	64	64	59	55	48	53	62	64	67	67	65	67	69	70	68	69	70	70	69	66	63	63	65	63	65	67	67	[illegible]	66	70	..	64.7
St. Louis (1)	Maximum	92	93	83	76	76	81	78	76	82	81	88	91	94	92	89	90	91	92	94	92	90	87	85	86	85	88	83	90	92	90	..	86.9
	Minimum	70	73	63	59	53	56	65	67	66	69	70	72	75	72	72	73	76	76	75	72	71	72	73	73	69	72	71	70	76	73	..	69.8
Unionville	Maximum	86	83	77	74	74	83	85	86	80	81	92	92	93	90	88	90	94	92	94	87	90	87	85	80	82	81	86	92	90	94	..	86.3
	Minimum	64	61	57	54	46	50	60	64	65	66	67	68	70	70	67	70	72	74	72	66	60	62	66	64	65	66	70	66	65	68	..	64.5
Warrenton §§	Maximum	93	91	77	75	76	85	75	78	82	80	89	94	94	91	90	92	93	95	96	95	91	85	80	85	85	88	81	92	87	93	..	85.9
	Minimum	67	66	68	56	49	51	60	62	65	67	67	69	71	71	72	68	70	73	73	68	69	72	67	71	68	68	70	69	71	69	..	67.0
Southeast Lowlands.																																	
Caruthersville	Maximum	105	105	105	93	94	102	96	96	92	90	87	96	101	98	101	98	103	99	100	99	98	96	100	95	98	101	99	95	100	102	..	98.1
	Minimum	73	72	72	68	65	64	70	69	72	72	70	70	70	73	70	73	73	73	73	73	73	74	75	75	72	72	72	70	72	72	..	71.4
Doniphan	Maximum	93	93	91	82	83	90	92	87	83	84	84	93	92	92	93	95	91	93	96	96	92	91	88	86	90	86	92	93	95	91	..	90.2
	Minimum	65	65	68	65	59	55	61	66	68	68	67	68	70	69	67	70	70	69	68	68	66	67	73	73	68	68	69	72	71	68	..	67.4
Jackson	Maximum	93	95	90	83	83	88	83	88	87	83	87	89	94	94	94	93	93	98	90	92	92	89	89	85	87	90	91	91	93	95	..	90.0
	Minimum	64	65	68	60	55	49	54	67	66	70	69	69	66	70	67	69	69	68	69	74	67	74	70	71	67	70	69	63	68	65	..	66.4
Poplar Bluff§§	Maximum	94	93	91	83	83	89	87	86	88	83	90	89	92	93	90	93	94	93	94	92	90	90	85	85	89	90	92	93	94	91	..	89.9
	Minimum	68	68	69	64	56	57	62	66	67	70	69	71	69	70	70	68	72	71	71	68	67	70	72	72	69	69	69	68	60	68	..	67.7
Cairo, Ill.	Maximum	92	91	90	79	79	85	85	88	84	80	82	88	90	91	90	93	92	94	82	92	87	88	88	87	88	90	91	88	92	92	..	87.9
	Minimum	71	68	71	64	60	60	64	70	72	71	70	70	72	73	71	73	74	74	68	71	71	73	72	75	74	74	71	70	72	72	..	70.4
Ozark Plateau.																																	
Arcadia §§	Maximum	89	90	86	76	77	86	79	84	79	80	83	89	89	91	88	90	90	92	94	90	85	86	83	83	85	86	86	90	92	90	..	86.3
	Minimum	62	62	62	58	51	45	53	61	63	67	65	66	64	67	65	65	67	66	68	65	64	68	68	69	63	69	70	68	67	66	..	63.8
Birchtree	Maximum	91	88	89	81	81	89	89	81	74	80	81	89	88	86	89	88	90	90	93	92	88	88	82	78	82	87	80	90	90	83	..	85.9
	Minimum	64	65	65	59	53	55	57	64	65	65	66	67	66	67	68	66	67	68	69	66	64	69	69	67	64	67	67	66	64	61	..	64.7
Eldon	Maximum	101	88	80	82	84	96	81	88	80	84	91	100	93	97	101	97	101	95	95	101	96	88	81	85	87	89	81	98	101	91	..	91.1
	Minimum	59	62	61	60	44	47	61	61	62	64	65	65	65	65	64	66	66	66	65	62	62	63	64	64	63	63	62	65	66	67	..	62.3
Farmington	Maximum	93	93	85	75	76	86	86	86	76	81	87	92	93	93	91	91	90	88	92	93	88	89	87	91	89	89	87	88	88	93	..	87.9
	Minimum	65	65	65	55	50	48	54	55	63	65	65	66	66	68	65	66	68	67	66	68	64	69	69	68	65	67	67	67	67	67	..	64.0
Hollister	Maximum	95	93	86	82	81	88	85	84	82	89	88	90	88	89	86	90	93	90	91	90	90	80	81	80	80	85	80	92	90	93	..	87.0
	Minimum	71	72	74	70	72	72	70	70	70	74	78	80	80	80	75	75	78	80	80	70	70	76	75	68	68	70	70	75	80	78	..	74.0
Koshkonong	Maximum	95	92	95	84	85	88	91	84	78	83	85	90	91	91	88	90	92	91	93	93	91	87	84	78	83	87	89	90	92	92	..	88.4
	Minimum	66	69	68	65	57	58	60	64	67	68	67	68	68	69	69	68	70	71	70	68	66	70	72	69	66	69	68	67	71	69	..	67.2
Lebanon §§	Maximum	90	89	82	76	78	85	84	84	89	79	85	88	89	86	87	88	88	88	90	87	90	82	76	78	82	85	80	93	93	88	..	85.3
	Minimum	62	65	66	59	51	54	54	64	65	66	64	64	69	66	68	69	66	68	67	68	64	64	67	67	65	66	69	66	69	69	..	64.7
Mountain Grove §§	Maximum	89	91	87	78	79	85	84	81	77	80	86	88	89	89	86	86	89	91	90	90	87	87	78	75	78	83	83	88	90	87	..	85.0
	Minimum	62	66	62	61	53	55	58	63	64	67	67	65	67	66	68	66	67	68	64	68	62	66	67	67	65	67	69	64	67	70	..	64.7
Neosho	Maximum	92	91	85	80	83	88	85	82	84	82	89	90	89	89	90	89	91	90	90	88	88	79	77	77	81	83	85	92	88	89	..	86.2
	Minimum	63	63	66	67	57	56	67	63	67	67	65	65	66	68	67	69	64	67	66	65	63	63	65	65	68	68	70	69	64	64	..	65.2
Rolla	Maximum	92	90	83	82	82	89	83	82	78	81	85	93	93	93	91	91	91	95	91	90	90	82	80	82	82	85	80	90	90	87	..	86.8
	Minimum	67	67	66	59	52	53	53	64	66	67	67	68	69	68	69	69	68	69	70	66	65	69	70	69	67	67	70	68	69	68	..	66.0
Springfield	Maximum	88	87	80	75	78	83	81	80	77	78	85	87	84	84	85	85	87	87	87	85	86	77	71	73	77	80	78	87	87	86	..	82.2
	Minimum	67	65	66	61	56	59	66	65	66	67	68	69	70	69	70	68	68	71	67	67	67	67	67	65	64	67	64	65	63	67	..	66.2
Southwest Plain.																																	
Amoret	Maximum	90	90	80	74	78	85	84	80	80	78	90	90	88	85	89	90	92	92	86	93	91	86	78	79	78	82	83	91	91	90	..	85.4
	Minimum	64	65	68	62	52	51	63	61	67	65	64	70	68	67	66	68	67	64	65	66	64	66	65	63	65	63	63	68	65	68	..	64.4
Appleton City	Maximum	91	86	77	75	78	85	84	81	77	80	91	90	90	87	90	90	91	91	91	90	89	85	79	79	79	81	80	92	91	92	..	85.4
	Minimum	65	68	65	62	53	56	65	65	68	68	66	70	70	69	70	71	69	70	70	67	68	69	70	65	66	69	67	69	67	70	..	66.9
Clinton	Maximum	94	89	86	78	82	89	85	85	81	85	92	93	92	91	94	93	95	95	94	91	92	86	79	83	83	83	81	95	93	95	..	88.5
	Minimum	65	66	67	61	56	55	66	65	68	63	66	68	70	70	69	70	67	69	70	69	67	67	70	66	67	69	66	68	68	71	..	66.6
Harrisonville §§	Maximum	86	87	72	76	77	87	86	79	69	88	87	88	85	84	89	90	93	92	92	90	89	79	76	77	77	82	85	93	92	92	..	84.6
	Minimum	65	67	64	62	55	55	59	65	66	68	62	69	70	68	71	71	69	69	69	68	66	67	69	64	66	67	67	68	67	71	..	66.1
Lamar §§	Maximum	93	85	84	80	83	89	87	81	84	79	90	91	91	90	91	92	94	93	90	95	93	94	78	79	84	78	85	92	92	92	..	87.6
	Minimum	63	67	66	64	55	55	65	63	67	66	63	67	69	69	68	69	66	66	68	65	66	66	68	63	65	67	70	70	80	67	..	66.1
Lamonte	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Marshall	Maximum	90	86	80	77	78	86	85	83	85	83	90	93	92	88	88	89	94	..	95	86	89	82	80	82	80	80	84	92	95	95	..	[a]86.4
	Minimum	66	66	65	60	49	62	61	65	64	67	65	68	69	68	69	69	69	..	67	69	67	70	68	68	67	63	69	67	70	72	..	[a]66.2
Nevada	Maximum	88	89	71	75	79	85	86	80	79	80	89	88	86	87	88	90	91	93	90	91	89	90	82	77	78	80	82	88	88	88	..	84.9
	Minimum	64	68	65	63	54	54	64	65	68	68	66	70	70	70	69	69	67	70	67	59	66	58	68	64	66	69	66	66	67	69	..	65.6
Warrensburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warsaw	Maximum	91	85	80	75	80	85	85	85	78	80	90	91	91	89	90	90	93	93	92	90	91	86	80	80	80	85	80	92	90	90	..	86.2
	Minimum	64	67	68	63	53	52	64	65	68	68	65	69	70	69	70	70	68	69	68	68	66	69	70	67	67	70	70	70	68	70	..	66.8
Northwest Plateau.																																	
Chillicothe	Maximum	90	86	73	76	77	86	86	85	79	85	94	95	97	91	94	94	97	97	97	89	93	83	92	83	83	80	87	93	94	95	..	88.4
	Minimum	66	65	61	56	51	53	61	65	67	69	66	67	73	70	70	71	72	71	69	71	63	63	62	65	67	68	68	67	67	71	..	65.8
Grant City	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Kansas City	Maximum	91	84	72	72	77	85	85	77	78	78	89	91	90	84	90	91	93	92	91	90	89	79	83	78	75	82	87	94	91	93	..	85.0
	Minimum	68	65	63	61	54	60	65	66	68	68	70	74	75	72	73	74	72	74	75	74	69	71	69	64	67	70	72	73	72	75	..	69.1
Kidder §§	Maximum	89	86	77	74	76	86	89	79	81	87	94	95	93	94	94	92	96	94	92	91	92	84	87	85	82	85	90	96	96	97	..	88.4
	Minimum	63	64	60	55	53	50	54	56	66	65	61	68	70	68	70	74	69	70	70	62	64	66	64	67	67	68	69	69	69	71	..	64.7
Lexington §§	Maximum	85	86	79	74	74	82	86	86	78	78	82	91	92	93	88	90	91	93	93	95	91	91	87	84	84	80	79	87	94	94	..	86.2
	Minimum	66	66	64	62	51	54	64	66	68	69	69	68	72	70	71	72	71	72	70	73	66	71	69	66	67	69	71	70	71	74	..	67.7
Maryville §§	Maximum	89	82	72	73	75	83	87	81	80	86	92	93	92	86	88	91	93	93	96	91	92	90	89	79	79	84	90	94	94	93	..	86.9
	Minimum	63	60	56	53	49	49	54	64	65	64	64	65	67	66	67	69	64	66	68	63	57	61	65	64	64	66	64	65	67	69	..	62.6
Oregon	Maximum	88	77	75	73	75	84	86	79	81	86	90	92	92	86	88	90	90	92	92	87	91	86	87	78	78	83	89	93	92	93	..	85.8
	Minimum	61	60	58	54	50	53	64	64	66	65	66	68	70	68	70	71	64	69	70	65	63	65	66	63	65	66	66	67	68	72	..	64.6
St. Joseph	Maximum	92	83	75	75	79	85	84	78	82	83	91	92	91	84	90	92	95	93	93	89	91	87	86	80	80	84	87	94	93	94	..	86.7
	Minimum	66	62	62	57	54	56	66	67	68	68	70	70	74	70	72	74	69	75	75	69	63	70	70	65	67	70	71	71	73	75	..	68.0
Trenton	Maximum	87	81	74	72	73	80	84	84	81	83	88	92	92	89	90	91	93	93	93	85	86	85	89	78	80	82	84	90	90	93	..	85.4
	Minimum	66	63	60	57	52	55	61	66	68	69	68	70	73	73	70	72	71	74	73	68	64	67	68	67	68	68	69	69	69	72	..	67.0

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

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NMS

UNIVERSITY

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXV. COLUMBIA, MO., JULY, 1921. No. 7.

GENERAL SUMMARY.

July, 1921, in Missouri, was hot relatively dry, with above normal sunshine, and light winds. From the physiological side it was a wearisome month, as there was little or no relief from the almost continuous heat.

While the precipitation was deficient, it was, on the other hand, well distributed, particularly on the days of the most general showers, and resulting crop damage was less marked than usually attends so marked a deficiency.

There were a few hail and windstorms, the damage being confined to small areas. See special notes.

TEMPERATURE.

The monthly mean temperature for the State, 65 stations reporting, was 80.3°. The mean departure from the normal for 61 stations having 10 or more years' record was plus 2.9°. It was the warmest July since 1916. There was an excess of warmth in all sections, but it was somewhat less pronounced in the Ozark Plateau, and Southwest Plain. There was an average of 25 days with maximum temperatures of 90° or higher. Thirty stations recorded 97° or higher, and at twenty-one the values reached 100° or higher. The 12th, 17th, and 30th were the hottest days generally.

PRECIPITATION.

The average precipitation for the State, 85 stations reporting, was 2.32 inches. The departure from normal for 71 stations having 10 or more years' record was minus 1.77 inches. The rainfall was deficient in all divisions, but it was much less marked in the Southwest Plain. The rainfall was in the form of local showers, the most general distribution probably occurring on the 4th, 14th, 18th, 19th, 28th, and 29th. Only nine stations received more than the normal amount, while six received a montly total of less than one inch. Only two stations, Brunswick, and Arcadia, received more than 5 inches. The least monthly amount was 0.43 inch, at Seymour.

WIND.

The prevailing winds were from the south. The average movement, based on records of 8 stations equipped with anemometers, was 4,965 miles or about 6.7 per hour. This is about 7 per cent below normal. Strong local winds occurred in the southeast part of the State on the 31st.

SUNSHINE AND CLOUDINESS.

There were 20 clear, and 8 partly cloudy days. The average number of hours of sunshine was 366, or 81 per cent of the possible and about 10 per cent greater than normal. This is 5 per cent more than July, 1920.

MISCELLANEOUS PHENOMENA.

Fog, dense.—On the 30th.

Hail.—In Nodaway County, on the 6th. (See Notes.)

Halos, solar.—2d, 11th, 12th, 14th, 15th, 17th, 18th, and 19th. Lunar.—12th, 14th, 17th, and 18th.

Thunderstorms, more or les general.—4th, 14th, 18th, 28th, 30th, and 31st. Local thunder occurred frequently.

SPECIAL STORM NOTES.

During the afternoon of July 6th, a severe wind and hail storm passed over Nodaway County from southwest to northeast. At Harmony Center, and Palestine, large and severe hail fell. Hailstones reported to be as large as doorknobs; and ice, a foot thick, remained in creek-beds two days after the storm. Men, and stock caught out in the fields, were considerably battered, being sore and stiff the following day. Out of a flock of 150 chickens, 130 were killed. All windows exposed to the storm were broken; a few roofs were damaged. The damage to crops was severe.

During the afternoon of the 25th, Oscar Wilson, a farmer in the northern part of Boone County, was killed by lightning while pitching oats. He was on the top of the wagon, and the bolt struck him in the head, zigzagged across his breast and passed down the left leg. Other men were working with him, but none was injured.

Strong winds occurred in Dent and adjoining counties, and thence north to St. Louis the afternoon of the 31st. Some minor damage was done.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.98	80	..	361	80	3,983	5.4	36	sw.	4
Hannibal	29.99	75	..	...	..	4,683	6.3	38	sw.	4
Kansas City	29.98	75	54	401	89	5,661	7.6	43	n.	31
St. Joseph	29 96	82	54	369	81	4,396	5.9	30	nw.	31
St. Louis	29.99	66	46	368	81	6,673	9.0	42	sw.	14
Springfield	30.01	79	60	351	78	5,656	7.6	24	se.	10
Cairo, Ill	29.98	77	58	...	..	4,774	6.4	60	nw.	31
Keokuk, Iowa	30.02	70	49	347	76	3,906	5.2	29	sw.	4

COMPARATIVE DATA FOR JULY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	79.3	+2.3	111	50	3.31	−0.98	......	0	7	....	.....	.....
1889	77.1	+0.1	107	46	3.75	−0.54	......	0	8	....	.....	.....
1890	79.6	+2.6	106	52	2.98	−1.31	......	0	5	....	.....	.....
1891	72.7	−4.3	103	40	3.55	−0.74	......	0	8	....	.....	.....
1892	75.8	−1.2	101	45	4.99	+0.70	4.75	0	8	12	10	9
1893	77.3	+0.3	101	51	4.91	+0.62	6.44	0	8	14	12	5
1894	76.5	−0.5	109	42	2.48	−1.81	4.90	0	5	18	10	3
1895	74.4	−2.6	106	45	6.79	+2.50	6.52	0	10	10	12	9
1896	77.3	+0.3	108	48	5.87	+1.58	8.00	0	9	15	11	5
1897	78.7	+1.7	106	48	3.22	−1.07	4.05	0	6	19	9	3
1898	76.1	−0.9	104	42	5.58	+1.29	8.15	0	9	16	10	5
1899	76.0	−1.0	102	43	4.51	+0.22	4.48	0	9	15	11	5
1900	76.9	−0.1	102	46	4.11	−0.18	7.03	0	8	17	10	4
1901	85.4	+8.4	116	46	2.02	−2.27	3.78	0	5	19	10	2
1902	77.0	0.0	103	50	4.59	+0.30	5.30	0	8	17	11	3
1903	77.4	+0.4	102	51	3.22	−1.07	3.26	0	8	17	10	4
1904	74.2	−2.8	100	47	4.65	+0.36	4.15	0	10	15	11	5
1905	73.4	−3.6	101	48	7.45	+3.16	7.60	0	12	12	10	9
1906	74.7	−2.3	100	48	3.53	+0 76	4.46	0	8	17	10	4
1907	78.4	+1.4	105	47	4.57	+0.28	6.70	0	8	19	8	4
1908	76.5	−0.5	101	49	2.23	−2.06	2.65	0	8	18	9	4
1909	76.7	−0.3	102	41	6.41	+2.12	10.71	0	10	17	8	6
1910	76.8	−0.2	109	46	6.70	+2.41	5.80	0	9	16	9	6
1911	78.0	+1.0	113	43	3.95	−0.34	4.20	0	8	16	9	6
1912	78.8	+1.8	104	52	2.74	−1.55	3.17	0	7	18	9	4
1913	80.2	+3.2	108	47	3.13	−1.16	3.62	0	7	18	9	4
1914	80.5	+3.7	109	45	2.67	−1.66	4.45	0	7	17	9	5
1915	74.6	−2.4	102	42	6.05	+1.59	6.77	0	12	14	9	8
1916	81 6	+4.6	109	52	1.25	−3.15	2.55	0	3	25	5	1
1917	77.5	+0.2	107	42	2.96	−1.22	3.40	0	8	20	8	3
1918	77.1	+0.2	110	41	1.76	−2.49	3.75	0	6	19	8	4
1919	80.0	+2.3	115	50	2.33	−1.37	4.55	0	5	23	6	2
1920	76.3	−0.9	105	47	3 25	−0.84	3.84	0	7	18	8	5
1921	80.3	+2.9	109	46	2.32	−1.77	2.25	0	5	20	8	3

Climatological Data for July, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	81.4	+6.2	99	30	61	22†	32	5.60	+0.96	1.49	0	5	26	0	5	sw.	O.K. Benecke
Clifton Hill	Randolph	731	22	81.3	+5.3	99	17	60	21	34	2.03	−2.23	0.55	0	6	24	7	0	......	L. S. Harlan.
Columbia	Boone	748	31	79.8	+2.4	98	27	61	22	30	2.69	−0.96	1.03	0	5	18	10	3	s.	U. S. Weather Bureau.
Downing	Schuyler	878	11	79.8	.....	99	12	58	21†	34	1.17	−3.73	0.60	0	6	24	6	1	s.	E. E. St. Clair.
Fayette	Howard	661	38	77.3	−0.1	94	30	56	22	31	4.08	+0.31	1.65	0	5	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	29	80.9	+3.0	100	13	58	22	36	1.67	−2.67	0.50	0	6	19	9	3	n.	Westminster College.
Gorin	Scotland	700	34	....	.....	..	..	..	.	..	1.37	−2.81	0.78	0	6	17	9	5	sw.	J. W. Pulliam.
Hannibal	Marion	534	37	80.7	+3.3	98	12	56	22	34	1.78	−1.97	0.80	0	6	17	9	5	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	38	80.6	+2.5	100	30	63	21	32	0.65	−2.80	0.32	0	4	30	1	0	s.	Miss Emma Swift.
Kirksville	Adair	969	39	79.6	+3.5	99	12	61	20	30	1.46	−3.12	0.54	0	5	23	5	3	sw.	Prof. J. S. Stokes.
Louisiana	Pike	469	40	79.8	+3.8	100	12	55	21†	33	1.67	−1.62	1.20	0	6	22	6	3	n.	J. T. Farrell.
Macon	Macon	875	28	81.1	+3.7	99	13†	60	21	36	1.98	−1.68	1.09	0	4	20	10	1	se.	W. C. Brown.
Mexico	Audrain	800	43	81.4	+4.1	101	17†	59	21†	37	1.58	−2.43	0.80	0	3	23	5	3	w.	Mrs. Abbie Snoddy.
Palmyra	Marion	652	22	81.5	+2.4	101	11†	56	22	33	2.06	−1.45	1.63	0	3	19^{a}	7^{a}	4^{a}	se.	W. B. Markell.
St. Catherine	Linn	800	12	78.6	.....	97	30	58	22	33	1.56	......	0.58	0	7	19	9	3	sw.	L. D. Baker.
St. Charles	St. Charles	456	43	81.1^{a}	−3.4	100	17	61	23	32	1.30	−2.20	0.32	0	5	19^{a}	8^{a}	3^{a}	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	83	83.2	+4.6	98	13	65	31	26	2.05	−1.38	0.93	0	7	19	12	0	s.	U. S. Weather Bureau.
St. Louis (2)	....do	578	9	82.2	+2.1	97	13†	66	31	25	1.49	−1.26	0.70	0	6	21	10	0	n.	St. Louis University.
Shelbina	Shelby	779	28	....	.....	..	..	..	..	..	1.65	−2.95	0.85	0	3	..	..	..	......	S. G. Parsons.
Steffenville	Lewis	650	28	83.6	+6.4	104	12	60	22	35	2.65	−2.20	0.80	0	5	16	13	2	ne.	Frank Hall.
Unionville	Putnam	1,062	28	78.6	+1.9	95	12†	55	21	34	2.48	−1.71	1.20	0	6	22	6	3	s.	Geo. W. Davis.
Warrenton	Warren	816	31	81.6	+4.0	100	13†	60	21	30	1.81	−2.12	0.47	0	7	10	17	4	se.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	49	81.8	+4.8	99	13	65	22	27	0.55	−3.48	0.38	0	6	10	15	6	s.	U. S. Weather Bureau.
Section means and	extremes	.....	..	80.8	+3.2	104	12	55	21†	37	1.98	−1.94	1.65	0	5	20	8	3	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	87.9	+7.3	109	17	66	23	35	3.95	+0.54	1.91	0	6	24	5	2	e.	H. E. Averill.
Doniphan	Ripley	344	17	82.2	+4.0	101	17	59	24	35	2.25	−2.48	2.00	0	2	20	9	2	s.	W. W. Martin.
Jackson	Cape Girardeau	428	31	81.2	+3.8	103	16	56	22†	38	1.70	−1.82	0.98	0	5	8	15	8	s.	John G. Putz.
Marble Hill	Bollinger	470	27	81.4	+4.1	103	14	57	22†	37	1.50	−3.18	0.86	0	3	15	16	0	w.	R. A. DeWitt.
Parma	New Madrid	281	..	....	.....	..	..	..	..	..	1.53	....	0.58	0	4	..	..	..	......	J. E. Pearce.
Patton (near)	Bollinger	500	11	....	.....	..	..	..	..	..	1.58	−2.16	1.04	0	2	..	..	..	.....	George F. Ellis.
Poplar Bluff	Butler	339	17	83.8	+5.1	103	7†	62	23	31	0.83	−2.72	0.77	0	3	13	9	9	......	Miss Gertrude Bock.
Vanduser	Scott	304	..	....	.....	..	..	..	..	..	2.44	......	1.14	0	6	..	..	..	......	M. L. Armstrong.
Cairo, Ill.	Alexander, Ill	359	49	83.0	+4.4	97	14	67	31	30	0.98	−2.47	0.45	0	8	15	10	6	s.	U. S. Weather Bureau
Section means and	extremes	....	..	83.2	+4.8	109	17	56	22†	38	1.87	−2.04	2.00	0	4	16	11	4	s.	
Ozark Plateau.																				
Arcadia	Iron	926	43	78.4	+2.5	97	5†	55	22†	36	5.17	+0.93	1.25	0	8	16	8	7	s.	Arcadia College.
Birchtree	Shannon	1,000	28	79.4	+3.0	97	27	59	23	32	2.12	−1.87	0.95	0	6	27	4	0	n.	V. H. Kirkendall
Bolivar	Polk	1,071	32	74.8	−2.3	98	28	46	22	46	1.36	−2.39	0.77	0	5	27	3	1	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	78.4^{e}	+0.8	102	30	55	22	35	1.12	−2.93	0.75	0	2	27^{a}	3^{a}	0^{a}	s.	H. E. Dean.
Eldon	Miller	934	22	80.4	+3.4	108	6	56	21	45	1.45	−2.21	0.90	0	5	12	19	0	sw.	E. H. Shepherd.
Farmington	St. Francois	918	24	79.2	+3.9	98	17	56	22	35	2.27	−1.28	2.06	0	6	17	13	1	ne.	Robert Forsyth.
Gano ‡‡	Dent	1,250	20	78.2	+1.3	97	30	58	22†	32	2.93	−0.57	1.03	0	6	24	7	0	sw.	A. C. Leach.
Goodland	Iron	1,000	28	78.0	−2.4	97	13	54	22	35	3.51	−0.67	1.66	0	5	24	6	1	w.	F. M. Adams.
Hollister	Taney	735	18	....	.....	106	30	..	..	..	0.65	−3.27	0.65	0	1	21	8	2	sw.	W. P. Chapmann.
Houston	Texas	1,280	29	78.4	+2.3	97	13†	54	23	36	3.74	−0.32	2.25	0	4	20	8	3	sw.	Walter T. Beard.
Koshkonong	Oregon	958	20	82.4	+4.1	101	17	65	21†	31	2.69	−1.23	1.63	0	4	15	13	3	sw.	R. M. Hitt.
Lebanon	Laclede	1,265	34	79.4	+2.5	98	30	60	21	34	4.14	+0.02	1.17	0	8	24	1	6	s.	Leonard E. Dickerson.
Lockwood	Dade	1,078	25	80.3	+2.7	96	30	63	21†	29	0.80	−4.07	0.65	0	2	25	6	0	sw.	C. S. Crow.
Mountain Grove	Wright	1,463	25	78.5	+2.5	100	30	60	22	30	1.78	−2.22	0.85	0	8	16	13	2	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	78.6	+1.0	97	30	56	22	37	2.29	−1.89	1.57	0	3	27	3	1	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	80.4	+3.0	97	12†	60	23	31	1.68	−2.41	0.59	0	6	24	6	1	ne.	Prof. Elmo G. Harris.
Seymour	Webster	1,642	16	78.0	+2.5	97	30	55	23	32	0.43	−4.32	0.24	0	3	22	9	0	sw.	Ira H. Hailey.
Springfield	Greene	1,350	42	79.2	+2.8	94	30	66	21	22	0.70	−4.09	0.42	0	3	25	5	1	se.	U. S. Weather Bureau.
Section means and	extremes	.....	..	78.9	+2.0	108	6	46	22	46	2.16	−1.93	2.25	0	5	22	7	2	sw.	
Southwest Plain.																				
Amoret	Bates	831	15	78.5	+0.9	96	30	60	22	26	4.72	+0.76	1.35	0	6	25	5	1	sw.	Darby Fruit Farm.
Appleton City	St. Clair	853	29	80.2^{c}	+1.9	95	7†	63	22	25	4.93	+0.30	2.16	0	5	24^{a}	5^{a}	1^{a}	sw.	W. G. Bigelow.
Clinton	Henry	765	34	81.2^{d}	+3.7	100	11	61	22†	33	1.65	−2.29	0.52	0	6	20^{c}	7^{c}	1^{c}	sw.	A. E. Derwent, M. D
Harrisonville	Cass	904	46	79.4	+1.6	96	30	61	23	28	3.51	−0.27	1.50	0	7	10	9	12	s.	John H. Patterson.
Lamar	Barton	980	40	80.6	+2.1	99	30	58	22	34	1.19	−3.05	0.66	0	4	25	4	2	s.	Joe W. Springer.
Lamonte	Pettis	867	35	80.5	+1.0	99	30	59	22	32	3.89	−0.11	1.70	0	7	30	1	0	se.	George B. Wagner.
Marshall	Saline	779	32	80.4	+3.1	97	30	58	22	34	3.46	−0.50	1.33	0	5	23^{b}	5^{b}	1^{b}	sw.	Dr. W. H. Black.
Nevada	Vernon	862	30	79.0	−1.2	93	17†	59	22	29	4.69	+0.76	1.74	0	7	24	5	2	s.	George A. Kaupp.
Warrensburg	Johnson	878	43	....	.....	..	..	..	..	..	....	......	....	..	..	..	..	..	......	S. I. Major.
Warsaw	Benton	687	26	79.9	+1.6	96	28	60	22	30	3.60	−0.70	1.10	0	5	21	10	0	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	80.0	+1.6	100	11	58	22	34	3.52	−0.57	2.16	0	6	22	6	3	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	24	80.3	+1.4	97	6†	62	21	29	3.40	−0.77	1.30	0	4	25	4	2	sw	F. G. Ashbaugh.
Bethany	Harrison	916	30	80.2	+4.5	101	30	54	22	38	2.24	−2.27	0.92	0	6	15	9	7	sw.	M. H. Moulton.
Chillicothe	Livingston	779	13	81.4^{a}	+3.6	100	28†	58	22	35	2.77	−2.38	0.98	0	5	25	0	6	sw.	G. L. Fellinger.
Conception	Nodaway	980	37	81.0	+5.1	99	13	60	31	35	2.06	−2.29	0.44	0	8	16	13	2	sw.	Fr. Adelhelm Hess.
Edgerton	Platte	856	9	79.0^{b}	.....	96	27†	55	22	34	3.04	−1.93	1.36	0	6	23^{a}	2^{a}	5^{a}	s.	Fred L. Stiff.
Grant City	Worth	1,134	30	....	.....	..	..	..	..	..	....	......	....	..	..	.	..	..	......	J. E. Engle.
Kansas City	Jackson	963	32	81.1	+3.5	96	30	62	31	22	1.87	−2.97	0.56	0	6	18	10	3	s.	U. S. Weather Bureau.
Kidder	Caldwell	1,020	34	82.2	+5.5	102	30	64	21	38	2.14	−1.97	0.79	0	5	25	1	5	se	Linn Terry.
Lexington	Lafayette	688	39	80.8	+3.7	96	27†	59	22	32	2.50	−2.22	0.70	0	7	21	10	0	se.	Edwin G. Loomis.
Liberty	Clay	859	31	80.8	+3.1	98	30	59	22	33	1.91	−2.69	0.99	0	6	25	5	1	se.	James H. Harris.
Maryville	Nodaway	1,036	27	78.2	+2.7	100	30	60	20†	35	1.64	−4.07	0.52	0	11	22	4	5	s.	J. R. Brink.
Oregon	Holt	1,048	66	78.4	+3.0	95	30	58	31	28	4.79	+0.41	1.45	0	8	14	17	0	s.	Tom Curry.
St. Joseph	Buchanan	967	49	80.6	+1.4	99	30	61	31	26	2.66	−1.22	0.69	0	8	20	10	1	se.	U. S. Weather Bureau.
Tarkio	Atchison	916	28	79.0	+6.2	96	13†	60	20	32	3.43	−1.53	1.80	0	7	12	11	8	s.	Albert Volker.
Trenton	Grundy	822	26	79.4	+2.9	94	17	60	22	30	2.10	−1.88	0.52	0	6	22	4	5	se.	W. H. Estes.
Section means and	extremes	.....	..	80.1	+3.6	102	30	54	22	38	2.60	−1.95	1.80	0	5	20	8	3	se.	
State means and	extremes	.....	..	80.3	+2.9	109	17	46	22	46	2.32	−1.77	2.25	0	5	20	8	3	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean. Anderson: of Gano. Salem, R. F. D. No. 5.

Daily Precipitation for July, 1921.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville ‖	Missouri		T.			.86										.60				.02										.44		.04	1.96
Brunswick ‖	Grand					1.40									1.30	1.03														1.49		.38	5.60
Clifton Hill ‖	Chariton				.45										.26				T.					.02		T.			.55	.25		.50	2.03
Columbia***	Missouri				.84										.60				T					.01				T.	1.03			21	2.69
Downing	Mississippi				.25										.06				.06									.08	.60	.12			1.17
Fayette ‖	Missouri				1.65										.82											.06			1.23			.32	4.08
Fulton	do		T.		.18										.50					.30									.02	.47		.20	1.67
Gorin	Mississippi	.06			.19				.78						T.				.07									.07	.20				1.37
Hannibal***	do				.60														.30					.01		T	T.		.77	.03		.07	1.78
Hermann ‖	Missouri					1.70																								.70			2.40
Jefferson City ‖	do					.32									.08														.20	.05			0.65
Kirksville	Mississippi				.20										.54				.35				T.						.32	.05		T	1.46
Louisiana	do				1.20	.10														T.					.04				.03	.20		.10	1.67
Macon ‖	Chariton					.75										.10				T.									.04	1.09			1.98
Mexico ‖	Mississippi					.80													T.								.08			.70			1.58
Pacific ‖	Meramec	.31				.03			.25							.09											.19	.31		.01	.32		1.51
Palmyra ‖	Mississippi					1.63													.21								.22						2.06
St. Catherine	Grand				.30										.58				.04					T.				.06	.01	.07		.50	1.56
St. Charles	Missouri				.22			.32							.26											T.	.25			.25			1.30
St. Louis (1)***	Mississippi				.10										.93	10			.49							.11				.01		.31	2.05
St. Louis (2)	do				.11			.05							.70	T.			.26							T.				.10		.27	1.49
Shelbina	do				.85																										.55	.25	1.65
Steffenville	do	.60			.80										T.				.20					T.		T.		T.	.35	.70			2.65
Union ‖	Meramec		.02			.03			1.35												.78						.24				.02		2.44
Unionville	Chariton					1.20									.10					.10				T.	.08				.30	.70			2.48
Valley Park ‖	Meramec					.11			.16								.02			.19							1.83			T.			2.31
Warrenton ‖	Mississippi	.45	.38			.47			T.											.08							.08	.01		.34			1.81
Keokuk, Iowa***	do	T			.04										T.				.08					.03	.01			.01	.38				0.55
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi																			.03	.38												0.41
Caruthersville	do								T.		1.38					.18				.13	1.91				.10							.25	3.95
Doniphan	Black							.25		T.						T.			T.		2.00												2.25
Jackson	Mississippi	.03	.02																.98	.44	.23												1.70
Marble Hill	do														.30				.34	.86													1.50
New Madrid ‖	do		.02														.01			1.70	.80	.26				.90						.01	3.70
Parma	do									.10						.50					.58											.35	1.53
Patton (near)	do																		.54	1.04													1.58
Poplar Bluff ‖	Black		.02																		.77											.04	0.83
Vanduser	Mississippi	.41														.10			.23	1.14	.48											.08	2.44
Cairo, Ill.***	do	.03							.22	.01						T.			.12	.33	.06							.07				.14	0.98
Ozark Plateau.																																	
Arcadia ‖	St. Francis								1.25							.63	.99			1.25	.59					T.		.04			.40	.02	5.17
Arlington	Gasconade					.75										.30				1.00													2.05
Birchtree	Black	.25	.50		.09			.95			.25					.08																	2.12
Bolivar	Osage													T.	.14				.10	.14							.21			.77			1.36
Dean	Neosho					T.					T.				.37					.75													1.12
Eldon	Osage				.90									.06	.08					.25												.16	1.45
Farmington	St. Francis	T.						.03								.03				2.06						.03				.07		.05	2.27
Gano	Meramec	T.			.15			.71							.80	.23				.99												.05	2.93
Goodland	Black							.50								.75				1.66								.35			.25		3.51
Hollister	White													.65																			0.65
Houston	Gasconade	.17			T.			T								2.25				.80						.52	T.						3.74
Koshkonong	Black							.21													1.63					.69					.16		2.69
Lebanon ‖	Osage	.78	.22			.50										.68	T.			1.17	.65									.11	.03		4.14
Lockwood	do				T.						T.	T.							T.	.15							T.			.65			0.80
Mountain Grove ‖	White	.48	.08			T.			.05							.85	.08				.11							.08	.05				1.78
Neosho	Neosho							T.			T.					1.57				.56										.16			2.29
Rolla ‖	Meramec		T.			.19										.06				.44	.59									.30		.10	1.68
Seymour	White				.24								T.		T.	.12														.07			0.43
Springfield ***	do	T.			T.						T.	T.	T.	T.	03				T.	.42										.25			0.70
Steelville ‖	Meramec		.10			.05			.11							.97				.95	.10					.08		01				.05	2.42
Tuscumbia ‖	Osage					1.03										T.				.33	.24							T		T.		T.	1.60
Southwest Plain.																																	
Amoret	Osage				24										.81			.21	.98	1.35								T.		1.13			4.72
Appleton City	do				.77										.38				.47	2.16										1.15			4.93
Clinton	do				.30										.26			.52		.10								.37				.10	1.65
Harrisonville ‖	do					1.50		T.						T.	.38	.64			.36	.22										.37		.04	3.51
Lamar ‖	Neosho																			.10	.10						.33			.66			1.19
Lamonte	Missouri				1.70								.18		.60				.09										.51	.26		.55	3.89
Marshall	do				1.04										.36				T.										T.	1.33	.08	.65	3.46
Nevada	Osage				.20										.09				.50	1.28						.50	.38			1.74			4.69
Osceola ‖	do					.21										.40				3.50										1.00			5.11
Warrensburg	Missouri																																....
Warsaw	Osage				1.10										.75				.50	.85										40		T.	3.60
Waverly ‖	Missouri					.20									.65	.54				.10										1.23		.48	3.20
Northwest Plateau.																																	
Avalon	Grand				.25										1.25														1.30		.60		3.40
Bethany	do				.50										.92				.16					T.				.46	.15			.05	2.24
Chillicothe	do					.36									.80					.10										.98		.53	2.77
Conception	Missouri		.23		.30								.06		.32				.44				T.	T.				.23	.27			.21	2.06
Edgerton	Grand		.08		.43								T.		1.36				.15									T	1.01	.01			3.04
Grant City	do																																....
Kansas City***	Missouri	T.	T.		.56										.36			T.	.42									.07	.35			.11	1.87
Kidder ‖	Grand					.79									.65					.15										.18		.37	2.14
Lexington ‖	Missouri	.18			.39										.40	.05													.40	.38	.70		2.50
Liberty	do				.52										.99				16									.13		.08	.03		1.91
Maryville ‖	do		.21	.10	.52			.22			.03				.08				.15	.14				.04	T.			.01				.14	1.64
Oregon	do		.34	T.	1.50					.10					.12				.92									.30	.06			1.45	4.79
St. Joseph***	do	.23	.14		.38										.49				.25									.02	.46			.69	2.66
Tarkio	do		.07		1.80		.08								.03				.92										.30			.23	3.43
Trenton	Grand				.52										.46				.11					T.				.22	.49			.30	2.10

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for July, 1921.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	94	93	93	90	94	97	97	94	95	97	98	96	97	82	93	96	97	90	93	91	92	91	86	95	96	92	95	96	91	99	87	93.5
	Minimum	69	74	74	73	67	70	68	70	67	65	66	69	72	71	70	69	70	76	74	65	62	61	65	66	69	71	73	74	71	73	61	69.2
Columbia	Maximum	90	89	91	90	89	91	92	87	90	91	94	94	95	84	92	92	95	87	93	86	87	91	87	94	92	92	98	95	89	94	81	90.7
	Minimum	70	71	73	67	69	69	69	70	67	65	64	67	73	73	71	70	68	74	72	64	64	61	67	70	69	72	73	71	71	72	62	69.0
Fayette§§	Maximum	86	87	88	84	87	92	92	91	91	91	93	91	93	80	90	92	91	84	89	82	85	85	82	90	90	91	90	91	85	94	82	88.4
	Minimum	68	70	70	64	65	67	70	70	65	63	62	65	68	70	68	68	67	70	70	60	60	56	66	64	60	67	70	73	68	69	60	66.2
Hannibal	Maximum	92	91	93	92	90	92	94	89	92	92	96	98	98	87	91	92	97	88	90	84	87	90	87	92	92	93	96	86	87	96	84	91.2
	Minimum	73	74	76	68	68	71	74	73	68	71	67	71	74	76	73	72	68	74	73	65	61	56	66	73	73	73	76	69	69	69	63	70.2
Jefferson City §§	Maximum	91	91	94	91	91	93	93	88	90	92	95	97	95	91	91	92	98	95	92	86	89	92	93	97	94	93	99	96	90	100	86	92.7
	Minimum	68	70	66	72	69	68	73	69	69	65	65	68	72	71	71	68	68	71	75	65	63	63	63	66	67	69	67	70	68	72	72	68.5
Kirksville	Maximum	92	90	91	85	85	94	94	91	92	93	95	99	96	86	91	93	95	85	89	81	90	82	89	93	95	91	91	86	88	97	91	90.6
	Minimum	69	69	70	69	67	70	72	62	65	70	65	78	74	71	68	65	70	72	70	61	65	70	68	66	70	70	73	71	67	70	62	68.7
Louisiana	Maximum	95	93	92	86	83	90	93	95	90	96	93	100	95	98	90	93	92	95	92	94	85	88	90	93	92	93	94	96	95	96	92	92.5
	Minimum	72	72	70	68	66	68	72	68	65	65	64	68	72	72	70	64	70	62	70	60	55	55	60	68	68	68	75	74	68	69	62	67.1
Macon §§	Maximum	95	94	95	88	93	97	95	93	94	96	98	97	99	86	95	98	99	88	95	90	93	93	84	98	97	95	95	94	90	98	94	94.1
	Minimum	69	70	70	70	66	70	71	67	66	65	66	70	65	73	66	68	70	73	72	63	60	57	65	66	68	70	74	73	68	69	71	68.1
Mexico §§	Maximum	93	92	95	95	91	94	96	90	91	92	97	99	100	90	93	97	101	94	96	88	91	96	95	95	96	96	100	101	92	99	83	94.5
	Minimum	69	69	70	71	66	68	72	69	65	64	64	67	73	73	70	68	66	73	74	61	59	59	65	70	68	68	73	75	70	70	68	68.3
St. Catherine	Maximum	91	87	88	83	86	93	95	88	92	94	94	92	96	86	90	92	94	86	92	85	85	91	80	92	94	89	89	86	87	97	89	89.9
	Minimum	69	71	70	67	66	69	72	67	67	66	65	67	68	70	66	67	69	72	70	60	61	58	69	66	68	69	72	71	68	69	59	67.4
St. Louis (1)	Maximum	92	92	94	95	93	95	93	90	91	92	95	96	98	95	90	92	97	89	92	83	88	90	92	91	89	91	94	95	92	97	87	92.3
	Minimum	73	75	75	71	71	76	76	75	75	74	76	79	81	69	76	72	77	78	76	69	68	70	70	75	73	75	75	81	72	78	65	74.1
Unionville	Maximum	92	89	90	86	89	92	93	90	92	93	94	95	94	91	92	93	93	90	88	88	89	91	92	93	95	90	90	86	86	95	88	90.9
	Minimum	70	72	70	65	66	70	72	65	64	62	64	66	72	67	64	62	66	73	67	58	55	57	70	66	68	68	70	70	65	67	60	66.2
Warrenton §§	Maximum	95	91	93	94	92	95	94	91	91	93	96	99	100	91	92	95	99	95	93	85	89	94	93	95	92	93	100	98	93	100	83	93.7
	Minimum	69	68	70	70	65	69	74	70	68	69	68	71	75	75	71	68	69	71	74	64	60	69	66	72	68	68	73	74	69	71	71	69.6
Southeast Lowlands.																																	
Caruthersville	Maximum	100	105	106	108	106	106	103	92	98	86	101	107	107	107	101	106	109	106	96	96	98	98	101	100	102	102	103	105	104	100	103	102.0
	Minimum	72	72	75	74	74	78	76	76	74	70	72	74	74	74	76	76	78	77	78	70	68	68	66	72	72	74	73	75	76	77	76	73.8
Doniphan	Maximum	91	94	95	97	99	99	94	90	91	91	93	98	99	99	97	99	101	96	94	92	88	91	92	93	93	94	98	99	96	99	100	95.2
	Minimum	68	66	69	69	68	72	71	71	71	70	71	71	73	73	71	72	66	70	75	70	63	60	66	59	67	68	67	70	70	75	73	69.2
Jackson	Maximum	94	91	94	96	94	95	96	94	96	95	98	101	100	102	102	103	106	96	90	89	90	92	93	91	91	94	97	98	97	100	99	95.8
	Minimum	69	63	70	67	68	72	73	73	68	66	67	63	62	69	70	66	68	67	67	70	62	56	56	65	63	59	68	69	69	71	68	66.6
Poplar Bluff§§	Maximum	93	94	94	98	98	102	103	100	94	103	96	100	100	102	96	98	99	97	92	89	90	91	93	92	90	94	95	98	96	95	98	96.1
	Minimum	70	76	70	69	69	74	76	71	74	75	73	71	73	78	75	74	70	72	76	73	65	63	62	68	70	69	71	71	72	75	72	71.5
Cairo, Ill.	Maximum	91	93	95	96	95	96	92	88	91	90	94	97	96	97	92	93	97	94	81	86	87	89	90	89	88	91	91	94	93	94	97	92.3
	Minimum	74	73	78	76	72	77	77	75	74	72	73	74	77	76	75	75	74	76	73	73	70	67	69	73	73	74	74	75	75	77	67	73.8
Ozark Plateau.																																	
Arcadia §§	Maximum	89	91	92	94	97	97	92	91	91	93	95	97	97	92	86	93	96	88	86	84	84	85	89	86	87	89	93	95	92	93	89	91.1
	Minimum	66	66	66	65	62	67	70	67	65	65	65	61	67	75	71	64	62	66	69	66	67	55	55	57	61	66	66	72	71	69	70	65.6
Birchtree	Maximum	88	88	87	91	92	93	93	91	90	88	90	94	93	90	89	93	95	92	91	87	87	91	91	90	88	92	97	92	96	92	90	91.0
	Minimum	65	65	69	69	65	64	65	67	68	67	70	70	71	70	70	69	67	69	76	68	62	64	59	67	67	68	67	67	71	73	72	67.8
Eldon	Maximum	91	101	101	92	105	108	95	104	101	104	92	101	87	96	102	105	97	94	97	94	91	95	91	93	93	91	96	100	94	100	96	97.0
	Minimum	62	63	74	61	62	63	67	64	65	60	65	61	65	66	65	62	65	67	67	61	56	61	59	59	63	62	64	70	67	70	56	63.7
Farmington	Maximum	93	91	92	94	93	95	93	93	90	91	93	94	97	90	90	94	98	90	88	84	88	89	89	92	90	90	91	93	92	92	88	91.5
	Minimum	66	67	66	68	63	70	72	67	68	67	65	64	71	73	70	65	63	69	70	64	62	56	59	68	65	66	67	73	71	72	66	66.9
Hollister	Maximum	93	90	92	96	95	100	98	100	95	94	100	100	95	92	87	92	95	90	91	91	90	92	94	95	92	95	100	98	100	106	103	95.2
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Koshkonong	Maximum	90	92	92	95	95	97	97	95	93	92	93	98	99	99	96	98	101	95	97	90	88	91	92	92	88	90	94	96	92	95	94	94.1
	Minimum	69	67	71	72	70	72	73	70	70	70	72	75	74	74	72	72	70	74	77	69	65	65	65	67	68	70	69	72	72	74	76	70.8
Lebanon §§	Maximum	90	90	90	90	94	95	95	92	91	93	94	95	93	88	91	94	95	90	89	86	86	88	93	92	90	89	94	94	94	98	94	91.8
	Minimum	65	65	67	70	64	64	67	68	64	64	68	68	69	69	70	65	65	71	71	63	60	69	59	63	69	68	69	70	69	69	73	66.9
Mountain Grove §§	Maximum	88	88	86	90	91	91	91	90	90	88	90	92	94	88	90	85	89	89	83	85	84	87	90	88	88	95	88	95	96	100	91	89.7
	Minimum	66	66	62	67	65	67	70	68	64	68	67	68	70	70	68	70	68	72	71	65	63	60	61	64	67	69	71	68	69	70	72	67.3
Neosho	Maximum	87	89	88	89	94	95	93	92	90	91	91	92	94	94	92	94	95	92	90	87	87	89	90	90	91	90	93	94	95	97	96	91.6
	Minimum	66	67	66	68	63	67	66	65	60	61	69	67	67	69	67	66	58	74	70	65	59	56	58	58	65	67	70	67	70	72	68	65.5
Rolla	Maximum	91	92	89	90	93	93	94	92	94	95	93	97	96	90	92	95	97	89	89	87	91	91	91	92	91	92	97	97	92	94	95	92.6
	Minimum	66	67	72	71	64	70	70	70	67	67	68	69	72	70	70	68	68	69	72	66	64	61	60	62	68	70	71	72	72	73	65	68.2
Springfield	Maximum	86	87	85	86	89	91	90	88	88	86	86	90	92	84	87	89	90	87	85	82	82	86	85	87	86	87	92	93	90	94	93	87.8
	Minimum	69	70	71	70	69	72	74	72	70	70	72	72	74	71	69	71	71	75	72	68	66	66	66	69	71	69	70	72	70	75	73	70.6
Southwest Plain.																																	
Amoret	Maximum	90	90	84	83	90	95	94	90	89	90	88	91	93	88	89	92	93	90	89	85	84	86	88	88	88	88	93	90	91	96	88	89.5
	Minimum	68	70	70	67	68	70	69	68	67	66	67	68	68	69	69	68	70	68	70	63	63	60	62	63	66	68	70	70	68	73	67	67.5
Appleton City	Maximum	90	..	..	..	90	94	95	91	92	91	90	92	95	86	90	93	95	90	89	86	81	88	90	89	89	89	92	93	91	94	88	[c]90.6
	Minimum	71	..	..	..	66	71	83	71	70	69	70	72	73	71	72	69	71	69	70	64	66	63	65	65	69	69	71	70	70	75	69	[c]69.8
Clinton	Maximum	95	93	90	88	92	..	..	..	..	98	100	96	97	94	92	98	98	97	93	88	88	91	93	94	93	92	97	97	95	98	93	[d]94.1
	Minimum	70	71	70	69	70	..	..	..	..	70	67	71	73	71	70	68	68	69	70	63	64	61	65	61	67	69	71	71	70	75	63	[d]68.4
Harrisonville §§	Maximum	89	89	84	80	89	93	95	91	91	89	90	90	95	88	90	88	93	89	92	87	85	87	89	90	90	89	94	92	93	96	86	89.8
	Minimum	70	71	70	74	67	68	72	70	69	70	69	72	72	70	69	69	68	70	69	64	65	63	61	67	70	69	72	73	70	70	64	68.9
Lamar §§	Maximum	92	92	87	87	94	98	97	94	95	94	92	94	96	87	94	97	97	92	90	88	89	92	93	95	92	93	95	97	94	99	97	93.3
	Minimum	69	70	69	71	65	69	69	67	65	66	70	69	69	71	70	67	71	74	71	63	63	58	60	61	67	66	70	67	68	75	73	67.8
Lamonte	Maximum	94	92	90	88	93	97	94	92	93	94	93	93	97	83	91	94	96	89	94	89	89	91	92	94	94	91	94	95	94	99	89	92.5
	Minimum	70	72	71	67	67	70	72	69	67	66	65	70	73	71	70	68	70	72	74	62	60	59	69	65	69	69	72	71	70	74	61	68.5
Marshall	Maximum	92	90	90	87	90	95	95	91	92	94	94	95	95	84	91	95	94	90	95	84	90	91	91	95	93	92	96	96	98	97	88	92.3
	Minimum	69	71	70	67	71	69	70	72	69	65	65	72	71	65	70	83	70	74	73	64	62	58	66	65	62	69	73	62	70	73	61	68.4
Nevada	Maximum	87	88	84	85	89	92	92	89	90	90	88	90	92	87	89	91	93	90	89	84	84	88	88	90	88	87	91	92	89	93	90	89.0
	Minimum	70	70	71	69	66	71	72	69	66	66	69	72	72	72	69	67	72	68	71	64	65	59	64	70	69	68	71	71	69	76	70	69.0
Warrensburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warsaw	Maximum	93	91	90	90	92	95	93	90	91	93	91	94	90	87	90	92	95	91	92	88	86	90	91	91	91	92	95	96	92	95	93	91.6
	Minimum	69	71	72	66	67	68	70	68	65	64	69	71	73	71	70	67	69	71	73	63	62	60	63	61	67	70	72	73	70	75	65	68.2
Northwest Plateau.																																	
Chillicothe	Maximum	95	91	92	86	93	97	97	96	97	96	97	97	98	90	94	95	97	93	96	89	90	93	92	98	96	94	96	100	90	100	..	[a]94.5
	Minimum	68	72	70	73	68	70	72	65	71	66	64	67	72	69	69	65	68	76	72	62	60	58	70	66	68	69	72	72	70	70	60	68.2
Grant City	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Kansas City	Maximum	92	90	86	79	91	93	91	91	91	90	90	91	94	87	88	92	95	87	90	83	84	87	90	90	90	89	94	93	92	96	81	89.7
	Minimum	73	72	73	70	69	76	75	72	75	75	74	75	76	71	73	72	76	70	74	68	70	69	73	72	74	73	75	73	72	77	62	72.5
Kidder §§	Maximum	94	96	93	92	95	97	98	95	96	98	94	95	98	80	84	98	97	94	95	92	92	94	92	96	94	95	98	97	94	102	92	94.4
	Minimum	70	70	70	72	71	70	70	65	65	65	70	73	78	69	65	68	70	75	72	71	64	65	71	67	73	74	69	77	75	72	66	70.1
Lexington §§	Maximum	92	91	87	76	90	94	95	92	92	93	92	93	95	89	91	93	95	90	93	88	87	91	93	94	92	93	96	96	94	96	90	91.7
	Minimum	71	73	71	73	68	71	74	70	68	66	68	72	74	70	71	68	69	77	75	64	62	59	68	66	68	71	75	76	71	70	71	70.0
Maryville §§	Maximum	92	89	88	83	92	92	92	94	96	95	94	92	95	92	92	94	95	90	92	89	91	89	86	92	92	90	95	83	93	100	85	91.4
	Minimum	69	66	66	65	65	66	63	62	61	67	63	65	70	67	67	62	62	65	67	60	60	61	65	67	64	66	68	70	67	67	59	64.9
Oregon	Maximum	91	88	87	81	89	91	91	92	93	93	93	92	93	88	89	92	93	87	89	86	87	87	91	89	91	89	90	86	91	95	86	89.7
	Minimum	70	66	71	65	67	67	66	66	69	70	67	70	71	68	67	66	70	69	70	63	62	62	66	66	66	68	70	70	67	70	58	67.2
St. Joseph	Maximum	93	91	87	82	92	93	94	94	95	91	94	92	95	90	92	93	95	88	92	87	87	87	90	91	92	90	92	89	90	99	84	91.1
	Minimum	70	69	73	68	71	71	70	68	70	71	68	73	76	70	72	68	74	72	71	66	63	62	71	67	69	72	76	73	72	74	61	70.0
Trenton	Maximum	92	89	90	84	93	92	92	89	91	90	90	93	93	87	87	91	94	87	87	85	86	90	85	90	91	91	90	87	88	92	88	89.5
	Minimum	70	69	70	72	68	71	72	68	68	67	68	71	74	71	69	70	71	75	72	63	63	60	72	68	70	70	72	72	70	72	62	69.4

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a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXV. COLUMBIA, MO., AUGUST, 1921. No. 8.

GENERAL SUMMARY.

The weather of August, 1921, was generally warm and humid. The first ten days were mainly slightly cooler than normal. The middle portion of the month was mainly warmer than normal generally. The last ten days were continuously warm, especially in the northwest and southeast sections. Showers were frequent and quite well distributed; on several days they were heavy to excessive, particularly in the southwest section. Taking the month as a whole, the precipitation was ample for needs.

From the side of personal comfort it was a wearisome month; but from the agriculturist's point of view it was quite satisfactory. At the close of the month the early planted corn was practically made, and the late planted was well along toward maturity. Plowing and preparing ground for fall seeding was well advanced; and pastures were generally good.

Some small local damage was done by wind and hail.

TEMPERATURE.

The monthly mean temperature for the State, 65 stations reporting, was 76.8°, or 0.8° above normal, and more than 3° warmer than the same month in 1920. The excess of temperature was slightly more marked in the Northwest Plateau, and in the Southeast Lowlands than in the three other divisions. The first ten days were, as a rule, the most pleasant, while the last ten days were the warmest and most unpleasant. Maximum temperatures of 100° or higher occurred at 12 stations on the 19th and 23rd; and there were 15 days with 90° or higher.

PRECIPITATION.

The average precipitation for the State, 80 stations reporting, was 5.27 inches. The departure from normal for 70 stations having 10 or more years' record was plus 1.63 inches. All divisions show an excess of precipitation, but locally it was somewhat below normal, confined mostly to the southeast part of the State, and in the extreme northwest counties. The most general rains fell on the 1-2d, 6th, 10-11th, 13-14th, 16-17th, and 25-26th. Five stations received a monthly total of 6 to over 9 inches, the greatest amount, 10.04 inches, falling at Marble Hill, 5.20 inches occurring within 24 hours, on the 13-14th. The next heaviest 24-hour amount was 4.22 inches, at Amoret on the 13th.

WIND.

The prevailing winds were from the south. The average movement, based on records of 8 well placed stations equipped with anemometers, was 5,763 miles and about 13 per cent more than the average. There were some strong local winds on a few days.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine for the State, based upon the records of six stations equipped with sunshine recorders, was 285, or 67 per cent of the possible and about 5 per cent below normal.

MISCELLANEOUS PHENOMENA.

Hail.—At Kirksville, on the 5th; Palmyra, 6th; Arcadia, 23rd; and Koskonong, 24th.

Halos, solar.—4th, 15th, 21st, and 25th.

Thunderstorms.—1st, 6th, 11th, 13th, 16th, 25th, 27th, and 28th. Thundershowers were frequent.

SPECIAL STORM NOTES.

During a local thundershower the afternoon of August 3, at the County farm, 6 miles north of Princeton, Mercer County, lightning killed three horses, badly injured another, stunned one driver and severely shocked another.

On August 6th, a barn owned by George Palmer, Boone County, was destroyed by lightning. Mr. Palmer was in the barn at the time; he was knocked down and made helpless, but was rescued in time. He later recovered from the shock. Loss about $3000.

On August 29th, a barn owned by David Purdy, Boone County, was struck by lightning and destroyed by fire. Five fine work mules were killed, 1,000 bales of hay, 300 bushels of oats, and 15 barrels of corn were destroyed. Loss about $8000.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	30.00	88	69	295	70	4,403	5.9	35	nw.	6
Hannibal	30.01	82	..	...	..	5,564	7.5	34	nw.	5
Kansas City	29.98	84	63	320	76	6,849	9.2	44	sw.	6
St. Joseph	29 96	84	64	296	70	5,166	6.9	32	nw.	1
St. Louis	30.01	76	57	276	65	8,438	11.3	48	nw.	6
Springfield	30.02	85	71	231	55	6,500	8.7	35	nw.	11
Cairo, Ill	30.03	84	69	...	..	4,752	6.4	38	ne.	6
Keokuk, Iowa	30.02	80	62	290	68	4,430	6.0	35	s.	5

COMPARATIVE DATA FOR AUGUST.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	74.0	−1.6	110	48	7.25	−3.80	......	0	11	.....	.....	.....
1889	73.5	−2.1	101	52	1.96	−1.49	......	0	14	.....	.....	.....
1890	73.3	−2.3	104	49	4.84	+1.39	......	0	9	.....	.....	.....
1891	73.2	−2.4	108	38	5.34	+1.89	......	0	8	.....	.....	.....
1891	74.3	−1.3	100	40	2.42	−1.03	4.55	0	6	17	8	6
1892	72.8	−2.8	100	40	2.20	−1.25	5.60	0	4	18	10	3
1893	77.0	+1.4	111	39	1.58	−1.87	3.07	0	5	14	16	1
1894	75.3	−0 3	104	48	4.23	+0.78	3.50	0	8	15	11	5
1895	76.6	+1.0	108	41	3.25	−0.20	4.80	0	6	17	10	4
1896	74.1	−1.5	108	41	2.39	−1.06	5.00	0	6	19	9	3
1897	75.8	+0.2	103	44	3.03	−0.42	4.75	0	5	17	10	4
1898	78.8	+3.2	107	49	3.35	−0.10	4.28	0	7	18	10	3
1899	80 3	+4.7	105	52	3.51	+0.06	2.77	0	6	19	9	3
1900	78.4	+2.8	109	47	1.88	−1.57	4.33	0	5	19	9	3
1901	75.0	−0.6	103	47	6.16	+2.71	7.84	0	10	14	11	6
1902	74.4	−1.2	102	43	5.40	−1.95	6.40	0	10	16	11	4
1903	73.7	−1.9	100	43	5.46	+2.01	4.43	0	8	16	10	5
1904	76.4	+0.8	102	48	4.69	+1.24	3.94	0	8	19	7	5
1905	76.6	+1.0	101	40	4.72	+0.27	3.55	0	11	14	10	7
1906	77.3	+1.7	109	47	3.71	+0.26	6.30	0	9	17	8	6
1907	76.4	+0.8	102	46	3.87	+0.42	3.57	0	5	17	9	5
1908	79.5	+3.9	110	40	0.55	−2.90	4.00	0	2	24	6	1
1909	74.7	−0.9	103	40	2.77	−0.68	5 80	0	6	15	9	7
1910	75.4	−0.2	109	41	4.20	+0 55	5.17	0	7	15	8	8
1911	76.2	+0.6	104	41	4.19	−0.74	2.62	0	9	17	8	6
1912	82.8	+6.9	110	41	1.06	−2.51	3.51	0	3	22	7	2
1913	78.0	+1.8	106	49	4.25	+0.60	8.50	0	9	15	9	7
1914	69.8	−6.5	98	37	7.86	+4.15	8.20	0	12	12	9	10
1915	79.2	+2.9	107	41	4.05	+0.49	6.48	0	7	19	7	5
1916	73.3	−2.9	104	38	4.45	+0.94	5.20	0	9	16	8	7
1917	81.8	+5.8	111	45	3.34	−0.27	3.42	0	8	17	9	5
1918	75.7	−0.5	106	44	4.29	+0.49	7.00	0	8	17	9	5
1919	73.1	−3.0	102	43	4.78	+0.89	5.77	0	9	15	8	8
1920	76.8	+0.8	1 9	48	5.27	+1.63	5.20	0	9	14	10	7

Climatological Data for August, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of days. With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.	Prevailing direction of wind.	Observers.
Northeast Plain.																				
Brunswick	Chariton	652	42	76.8	+3.4	99	23	54	15	37	7.86	+3.99	2.60	0	10	19	0	12	s.	O.K. Benecke
Clifton Hill	Randolph	731	22	78.0	+2.1	99	27	53	15	31	6.69	+3.85	2.25	0	11	20	10	1	......	L. S. Harlan.
Columbia	Boone	748	31	76.4	+1.7	96	19	55	8†	28	5.83	+2.95	1.71	0	13	15	12	4	s.	U. S. Weather Bureau.
Downing	Schuyler	878	11	75.4	.....	94	26	54	21	29	6.79	+3.51	2.86	0	8	14	13	4	s.	E. E. St. Clair.
Fayette	Howard	661	38	73.4	−2.8	93	23	52	15	26	4.52	+1.44	1.38	0	9	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	29	77.7	+1.4	96	1†	54	15	31	5.83	+2.53	1.85	0	13	20	7	4	nw.	Westminster College.
Gorin	Scotland	700	34	....	.....	..	..	..	..	..	4 60	+1.56	2.46	0	7	15	9	7	se.	J. W. Pulliam.
Hannibal	Marion	534	37	75.9	+0.9	96	19	56	15	29	5.78	+2.40	2.10	0	10	14	13	4	sw.	U. S. Weather Bureau.
Jefferson City	Cole	557	38	76.7	0.0	97	24	55	8	33	5.43	+2.37	1.27	0	10	20	8	3	s.	Miss Emma Swift.
Kirksville	Adair	969	39	75.4	+1.6	95	23	55	8†	30	5.25	+2.00	2 60	0	6	19	6	6	ne.	Prof. J. S. Stokes.
Louisiana	Pike	469	40	77.3	+2.6	96	27	52	15	32	5.45	+1.85	1.55	0	11	21	6	4	e.	J. T. Farrell.
Macon	Macon	875	28	75.8	−0.9	97	19	50	15	31	6.00	+3.10	3.25	0	8	22	7	2	se.	W. C. Brown.
Mexico	Audrain	800	43	76.7	+0.6	99	23†	50	15	36	5.77	+2.63	1.82	0	8	20	3	8	sw.	Mrs. Abbie Snoddy.
Palmyra	Marion	652	22	75.6	−1.1	98	18	52	15	35	5.38	+1.70	1.18	0	8	14	11	6	se.	W. B. Markell.
St. Catherine	Linn	800	12	74.8	.....	97	23	52	15	30	3.90	......	2.25	0	11	15	14	2	sw.	L. D. Baker.
St. Charles	St. Charles	456	43	77.0	+0.5	98	19	54	15	36	3.34	−0.10	1.47	0	8	16	11	4	s.	L. C. Saeger.
St. Louis (1)	St. Louis City	717	83	77.5	+0.2	97	19	57	15	25	2.75	+0.09	0.81	0	10	14	12	5	s.	U. S. Weather Bureau.
St. Louis (2)	....do	578	9	77.0	−0.2	98	19	56	15	28	2.49	−3.12	0.87	0	11	15	12	4	s.	St. Louis University.
Shelbina	Shelby	779	28	...	.....	..	..	..	..	..	6.24	+3.60	3.25	0	6	..	..	..	......	S. G. Parsons.
Steffenville	Lewis	650	28	78.6	+2.1	99	27	58	3	32	3.74	+0 15	2.05	0	6	16	12	3	s.	Frank Hall.
Unionville	Putnam	1,062	28	74.2	−1.1	95	19	54	8	30	7.15	+3.17	2.95	0	8	19	3	9	n.	Geo. W. Davis.
Warrenton	Warren	816	31	76.6	+0.2	99	23	52	15	34	5.07	+1.98	1.29	0	9	11	13	7	s.	Prof. J. H. Frick.
Keokuk, Iowa	Lee, Ia.	574	49	75.1	+0.5	96	19	56	15	28	5.34	+2.10	3.20	0	9	8	15	8	s.	U. S. Weather Bureau.
Section means and	extremes	.....	..	76.3	+0.6	99	23†	50	15	37	5.27	+1.99	3.25	0	9	17	9	5	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	84.7	+5.0	109	19	62	8†	38	1.79	−1.78	0.60	0	6	22	3	6	e.	H. E. Averill.
Doniphan	Ripley	344	17	79.4	+2.0	103	2	58	8	33	3.08	−1.23	1.14	0	9	11	11	9	ne.	W. W. Martin.
Jackson	Cape Girardeau	428	31	74.0	−2.2	100	20	53	8	37	4.73	+1.12	1.62	0	9	9^b	14^b	6^b	s.	John G. Putz.
Marble Hill	Bollinger	470	27	77.6	+0.6	101	2	53	8	34	10.04	+6.54	5.20	0	6	14	13	4	n.	R. A. DeWitt.
Parma	New Madrid	281	..	....	.....	..	..	..	..	..	3.46	......	1.72	0	5	..	..	..	......	J. E. Pearce.
Patton (near)	Bollinger	500	11	....	.....	..	..	..	..	..	5.22	+0.68	1.00	0	8	..	..	..	.....	George F. Ellis.
Poplar Bluff	Butler	339	17	79.3	+1.3	100	1†	59	8†	34	3.27	−1.00	1.85	0	8	10	7	14	......	Miss Gertrude Bock.
Vanduser	Scott	304	..	....	.....	..	..	..	.	..	3.52	.. ...	1.30	0	6	..	..	..	......	M L. Armstrong.
Cairo, Ill.	Alexander, Ill	359	49	77.6	+0 6	96	20	64	15	24	4.29	+1.36	1.81	0	8	8	12	11	s.	U. S. Weather Bureau
Section means and	extremes	....	..	78.8	+1.2	109	19	53	8	38	4.38	+0.96	5.20	0	7	12	10	9	s.	
Ozark Plateau.																				
Arcadia	Iron	926	43	74.4	−0.1	97	19	50	8	38	5.94	+2.22	1.44	0	13	9	14	8	s.	Arcadia College.
Birchtree	Shannon	1,000	28	76.2^a	+0.3	100	1	56	7	30	7.15	+2.76	1.85	0	9	16^a	8^a	6^a	se.	V. H. Kirkendall
Bolivar	Polk	1,071	32	77.5	+0.5	98	5	54	8	32	6.14	+2.46	2.04	0	8	17	8	6	s.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	78.4	+0.9	99	1†	55	4†	43	4.60	+0.33	1.31	0	8	19	6	6	sw.	H. E. Dean.
Eldon	Miller	934	22	75.0	−1.4	98	1†	49	8	38	7.16	+3.18	2.40	0	9	12	13	6	sw.	E. H. Shepherd.
Farmington	St Francois	918	24	76.4	+1.6	97	1	54	15	30	3 42	+0.04	0.80	0	12	12	18	1	sw.	Robert Forsyth.
Gano ‡‡	Dent	1,250	20	74.3^h	−1.8	96	1	53	8	33	5 97	+1.56	1.30	0	12	12^h	5^h	6^h	sw.	A. C. Leach.
Goodland	Iron	1,000	28	75.0	+0.5	96	1†	48	8	38	3.72	−0.31	1.75	0	6	18	9	4	s.	F. M. Adams.
Hollister	Taney	735	18	....	.....	..	..	..	..	..	....	......	....	..	..	..	..	..	......	W. P. Chapmann.
Houston	Texas	1,280	29	76.7	−0.3	96	20†	49	8	32	3.17	−0.59	1 24	0	10	14	9	8	sw.	Walter T. Beard.
Koshkonong	Oregon	958	20	78.6	+0.9	98	1†	60	8	27	5.11	+0.66	1.06	0	10	9	10	12	sw.	R. M. Hitt.
Lebanon	Laclede	1,265	34	75.5	−0.8	96	1	51	8	34	4.33	+0.80	1 52	0	15	14	7	10	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	78.0	+0.8	97	5	57	7†	30	7.68	+3.51	3.58	0	10	17	5	9	sw.	C. S. Crow.
Mountain Grove	Wright	1,463	25	76 6	+1.5	96	1†	54	8	33	4.01	−0.39	2.16	0	12	9	10	12	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	78.7	+1.8	98	6	55	8	34	4.70	+0.61	1.50	0	7	12	12	7	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	76.9	+1.1	97	1†	56	8†	32	7.00	+2.92	1.38	0	9	10	18	3	sw.	Prof. Elmo G. Harris.
Seymour	Webster	1,642	16	77.6	+2.6	96	1	48	4	36	4 07	+0.23	1.88	0	10	13	13	5	s.	Ira H. Hailey.
Springfield	Greene	1,350	42	77.0	+2.2	96	5	61	8	27	7.59	+3.28	2.79	0	11	12	14	5	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	76.6	+0.6	100	1	48	4†	43	5.40	+1.37	3.58	0	10	13	11	7	sw.	
Southwest Plain.																				
Amoret	Bates	831	15	75.7	−0.7	96	23	54	8	29	9.20	+5.19	4.22	0	9	10	10	11	sw.	Darby Fruit Farm.
Appleton City	St. Clair	853	29	77.3^a	−0.5	95	5	56	8	29	6.19	+2.45	1.93	0	10	16	10	5	sw.	W. G. Bigelow.
Clinton	Henry	765	34	78.8	+2.0	98	5†	58	8	34	6.52	+3.16	2.35	0	9	19	7	5	sw.	A. E. Derwent, M. D
Harrisonville	Cass	904	46	75.8	0.0	96	23	56	8	32	6.90	+2.75	2.62	0	8	7	9	15	s.	John H. Patterson.
Lamar	Barton	980	40	79.0	+1.5	100	23†	56	8	32	3.23	−0.95	1.37	0	10	15	4	12	s.	Joe W. Springer.
Lamonte	Pettis	867	35	....	.....	..	..	..	..	..	....	......	....	0	..	..	..	..	.....	George B. Wagner.
Marshall	Saline	779	32	76.5	+0.9	98	23	53	8	30	5.17	+1.51	1.55	0	8	18	10	3	sw.	Dr. W. H. Black.
Nevada	Vernon	862	30	77.0	+0.1	95	23	54	8	29	4.66	+1.15	1.02	0	9	17	6	8	sw.	George A. Kaupp.
Warrensburg	Johnson	878	43	....	.....	..	..	..	..	..	....	......	....	..	.	..	..	..	.	S. I. Major.
Warsaw	Benton	687	26	78.3	+0.9	98	5	51	8	39	8.86	+4.57	2.00	0	9	12	17	2	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	77.3	+0.5	100	23†	51	8	39	6.34	+2.48	4.22	0	9	11	9	8	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	24	75.0	−1.6	100	23	54	15	35	4.50	+0.97	2.25	0	4	22	8	1	sw.	F. G. Ashbaugh.
Bethany	Harrison	916	30	76.8	+2.1	100	23†	50	8†	38	3.65	−0.34	1.37	0	8	16	9	6	se.	M. H. Moulton.
Chillicothe	Livingston	779	13	....	.....	..	..	..	..	..	....	......	....	..	..	..	..	..	..	G. L. Fellinger.
Conception	Nodaway	980	37	77.8	+3.7	102	19	55	15	38	1.89	−1.78	0.81	0	7	17	9	5	sw.	Fr. Adelhelm Hess.
Edgerton	Platte	856	9	76.8^g	.....	96	23	51	8	34	6.93	+3.17	2.40	0	7	16^e	2^e	8^e	sw.	Fred L. Stiff.
Grant City	Worth	1,134	30	....	.....	..	..	..	..	..	....	......	....	..	..	..	..	..	......	J. E. Engle.
Kansas City	Jackson	963	32	77.0	+1.2	96	23	59	15	28	6.23	+1.48	2.13	0	12	12	13	6	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	34	81.6	+6.1	101	23	62	15	27	4.71	+0.87	3.53	0	9	22	6	3	se.	Linn Terry.
Lexington	Lafayette	688	39	77.4	+1.4	97	23†	56	8	29	9.36	+6.13	2.00	0	12	15	13	3	se.	Edwin G. Loomis.
Liberty	Clay	859	31	77.2	+0.6	98	23	53	8	37	9.47	+5.72	3.00	0	11	14	13	4	sw.	James H. Harris.
Maryville	Nodaway	1,036	27	74.1	+0.4	99	19†	50	16	41	3.77	−0.29	1.94	0	8	21	1	9	s.	J. R. Brink.
Oregon	Holt	1,048	66	75.2	+0.1	95	19	54	3†	28	3.34	−0.75	1.80	0	8	21	6	4	s	Tom Curry.
St. Joseph	Buchanan	967	49	77.1	−0.3	98	23	57	8	30	4.84	+1.18	2.33	0	12	17	9	5	se.	U. S. Weather Bureau
Tarkio	Atchison	916	28	76.2	−0.6	100	19	50	8	37	2.92	−0.92	0.93	0	8	16	8	7	se.	Albert Volker.
Trenton	Grundy	822	26	76.1	+1.0	94	18†	56	8	26	4.02	+0.42	2.14	0	8	23^a	6^a	1^a	se.	W. H. Estes.
Section means and	extremes	.....	..	76.8	+1.2	102	19	50	8†	41	5.05	+1.22	3.53	0	9	18	8	5	se.	
State means and	extremes	.....	..	76.8	+0.8	109	19	48	4†	43	5 27	+1.63	5.20	0	9	14	10	7	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for August, 1921.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville ‖	Missouri	.26	1.67	.04	....	....	.55	.13	....	....	.21	.68	....	.14	.10	....	....	1.85	....	....	....	.04	....	....	....	.78	.14	....	T.	....	....	....	6.59
Brunswick ‖	Grand	....	1.45	....	....	.14	.58	.07	....	....	....	2.60	....	.15	.12	....	....	1.40	....	....	....	....	....	....	....	.90	.45	....	....	....	....	....	7.86
Clifton Hill	Chariton	....	1.92	....	.02	....	.80	....	....	....	.25	2.25	....	.50	.02	....	.30	.30	....	....	.01	....	....	....	....	.32	....	....	....	....	....	....	6.69
Columbia***	Missouri	.01	.95	....	T.	....	.91	.42	....	....	.30	1.41	....	.23	....	....	.36	.76	....	....	.04	....	....	....	.02	41	.01	T.	....	....	....	....	5.83
Downing	Mississippi	1.09	2.86	....	....	....	.09	....	....	....	.32	....	....	.05	....	....	1.90	.07	....	....	.41	....	....	....	....	....	....	....	....	....	....	....	6 79
Fayette ‖	Missouri	1.38	....	....	T.	....	....	....	....	....	.46	.65	....	.69	.05	....	.68	....	....	....	.06	....	....	....	.46	....	....	.09	....	....	....	....	4.52
Fulton	do	....	.43	01	....	....	1.15	.25	....	....	.12	1.85	....	.05	.02	....	.15	1.14	....	....	.02	....	....	....	....	.63	....	.01	....	....	....	....	5.83
Gorin	Mississippi	.86	2.46	....	....	....	....	....	....	....	.15	.08	....	....	....	....	.75	.08	....	....	.22	....	....	....	....	....	....	....	....	....	....	....	4.60
Hannibal***	do	1.13	.97	....	....	.62	.09	.04	....	....	.46	1.43	....	.07	....	....	.76	.21	....	....	T.	....	....	T.	T.	....	....	....	....	....	....	....	5.78
Hermann ‖	Missouri	.47	.02	....	....	....	.05	.28	....	....	....	2.00	....	....	.22	....	....	.41	.05	....	....	....	....	....	....	.02	....	.02	.40	....	....	....	3.94
Jefferson City ‖	do	1.10	.03	.03	....	.20	....	....	....	....	....	1.15	....	....	....	....	....	1.10	....	....	....	1.27	....	....	....	.15	.35	....	....	.05	....	....	5.43
Kirksville	Mississippi	.08	2.60	....	....	1.00	....	....	....	....	.12	....	....	....	....	....	1.33	.12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5.25
Louisiana	do	.01	1.55	....	....	.02	.55	.15	....	....	.25	.65	....	.01	1.30	....	.65	.31	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5.45
Macon ‖	Chariton	.49	3.20	.05	....	....	T.	....	....	....	....	.94	....	T.	.41	....	....	.73	....	....	T.	....	....	....	....	.02	.16	....	....	....	....	....	6.00
Mexico ‖	Mississippi	.33	1.10	.01	....	T.	....	.40	....	....	....	.87	....	....	1.82	....	....	1.15	....	....	....	....	....	....	....	.09	....	....	....	....	....	....	5.77
Pacific ‖	Meramec	.48	....	....	....	....	.03	....	....	....	....	.50	....	....	.23	....	....	.20	.03	....	....	.45	....	....	....	.72	....	....	.59	....	....	....	3.23
Palmyra ‖	Mississippi	....	1.11	.13	....	....	.76	.11	....	....	....	1.18	....	....	.87	....	....	1.18	....	....	....	....	....	....	....	....	....	.04	....	....	....	....	5.38
St. Catherine	Grand	.25	2.25	.03	T.	....	T.	T.	....	....	.04	.08	....	.54	....	....	.45	.14	....	....	T.	....	....	....	.02	.08	.02	....	....	....	....	....	3.90
St. Charles	Missouri	....	....	....	....	....	.50	.05	....	....	.05	1.47	....	.64	....	....	.23	.02	....	....	....	....	....	....	.38	....	....	T.	....	....	....	....	3.34
St. Louis (1)***	Mississippi	....	.01	....	....	....	.31	.04	....	....	T.	.26	....	.22	.13	....	.20	T.	....	....	....	....	....	T.	.07	....	....	.81	....	....	.70	....	2.75
St. Louis (2)	do	....	.01	....	....	....	.33	.07	....	....	T.	.28	....	.17	.12	....	.13	.02	....	....	....	....	....	....	.12	....	....	.87	....	....	.37	....	2.49
Shelbina	do	....	3.25	....	....	....	.40	....	....	....	....	1.08	....	.48	....	....	.43	.60	....	....	....	....	....	....	....	....	....	....	....	....	....	....	6.24
Steffenville	do	T.	2.05	....	....	....	.62	....	....	....	.05	.20	....	....	....	....	.70	.12	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	3.74
Union ‖	Meramec	.57	....	.10	....	....	.08	.03	....	....	....	.58	.28	....	.10	....	....	.18	.06	....	....	1.36	....	....	....	.54	....	.02	.69	....	....	.02	4.61
Unionville	Chariton	....	2.85	.10	....	....	.25	T.	....	....	....	.05	....	....	1.05	....	....	1.90	....	....	.90	....	....	....	....	....	.05	....	....	....	....	....	7.15
Valley Park ‖	Meramec	.19	....	....	....	....	T.	.02	....	....	....	.34	....	T.	.73	....	....	.12	T.	....	....	....	....	....	....	.21	....	T.	.62	....	....	.02	2.25
Warrenton ‖	Mississippi	.52	....	T.	....	....	.16	1.16	....	....	....	.91	....	....	.34	....	....	.37	....	....	....	T.	....	....	....	1.29	....	.06	.26	....	....	....	5.07
Keokuk, Iowa***	do	1.86	1.34	....	....	T.	....	....	....	....	.28	.12	....	.98	....	T.	.60	.01	....	....	.10	....	T.	.05	T.	....	....	....	....	T.	....	....	5.34
Southeast Lowlands.																																	
Cape Girardeau ‖	Mississippi	....	....	.57	....	....	....	.50	....	....	....	.11	.40	....	2.00	.40	....	....	....	....	....	....	.03	....	....	....	....	.08	.78	....	....	....	4.87
Caruthersville	do	....	....	.28	....	.05	.12	.42	....	....	....	....	....	....	.32	T	.60	....	....	....	....	T.	....	....	....	....	....	T.	....	....	....	....	1.79
Doniphan	Black	....	1.14	.55	....	.06	....	.12	....	....	T.	.86	....	.01	.12	....	T.	....	....	....	....	....	....	T.	....	....	....	.12	....	....	.10	....	3.08
Jackson	Mississippi	....	.10	.51	....	....	.45	....	....	....	....	.45	....	....	1.62	....	.02	....	....	....	.12	.16	....	....	....	....	....	1.30	....	....	....	....	4.73
Marble Hill	do	....	1.13	....	....	....	45	....	....	....	....	1.10	....	....	5.20	....	....	....	....	....	....	.60	....	....	....	....	....	1.56	....	....	....	....	10.04
New Madrid ‖	do	.37	....	1.08	.05	....	.01	.27	....	....	....	.01	.28	....	....	1.35	....	....	....	....	....	....	....	....	....	....	....	....	.28	....	....	....	3.70
Parma	do	....	....	1.72	....	....	....	.36	....	....	.05	....	....	....	.51	....	....	....	....	....	....	....	....	....	....	....	....	.82	....	....	....	....	3.46
Patton (near)	do	....	.50	.65	....	....	....	....	....	....	....	.97	....	.35	.74	....	....	....	....	....	.55	.46	....	....	....	....	....	1.00	....	....	....	....	5.22
Poplar Bluff ‖	Black	.05	....	1.85	....	T.	.03	.12	....	....	....	.34	.19	....	....	.06	....	....	....	....	....	....	T	....	....	....	....	....	63	....	....	....	3.27
Vanduser	Mississippi	....	....	.70	....	....	1.30	....	....	....	....	.32	....	....	.60	....	....	....	....	....	....	....	....	....	....	....	....	.52	....	....	....	.08	3.52
Cairo, Ill.***	do	....	.42	.29	....	T.	1.81	T.	....	....	T.	.15	T.	.09	1.24	....	.02	T.	....	....	....	T.	....	....	T	....	....	.27	....	....	....	....	4.29
Ozark Plateau.																																	
Arcadia ‖	St. Francis	.70	....	.25	T.	T	.03	.09	T.	....	....	.64	1.44	....	1.05	.12	....	.02	....	....	....	T.	.98	....	.50	.03	....	....	.09	....	....	....	5.94
Arlington	Gasconade	.10	....	....	....	.83	....	.40	....	....	....	1.00	.10	....	.80	....	....	1.10	.20	....	....	.05	1.35	....	....	.30	.15	....	2.00	....	....	....	8.38
Birchtree	Black	....	.32	.27	....	1.85	....	....	....	.27	1.53	....	1.13	....	.62	....	....	....	....	....	....	....	....	....	....	....	....	.53	.63	....	....	....	7.15
Bolivar	Osage	....	....	....	T.	....	T.	.21	....	....	.46	2.04	....	.53	1.84	....	.42	.11	....	....	....	....	....	....	....	.53	T.	....	....	....	....	....	6.14
Dean	Neosho	....	T.	....	....	....	....	1.31	....	....	....	.18	.62	.62	.77	.16	....	....	....	....	....	....	....	....	....	.77	....	....	....	....	.17	....	4.60
Eldon	Osage	....	.03	....	....	.15	....	....	....	....	T.	.96	....	.42	....	....	.10	1.10	....	....	....	.05	....	....	2.40	1.95	....	....	....	....	....	....	7.16
Farmington	St. Francis	....	.37	.50	....	.02	.07	.03	....	....	....	.80	....	....	.64	....	.16	....	....	....	T.	.18	....	.39	.14	....	....	.12	....	....	....	....	3.42
Gano	Meramec	....	....	....	....	.47	....	.10	....	....	.26	1.12	....	.70	.42	....	.20	.12	....	....	....	.92	....	....	....	.64	.14	....	.88	....	....	....	5.97
Goodland	Black	....	.06	....	....	.25	....	....	....	....	....	1.75	....	....	.50	....	.06	....	....	....	....	1.10	....	....	....	....	....	....	....	....	....	....	3.72
Hollister	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Houston	Gasconade	....	.15	....	T.	.20	T.	....	....	....	.04	1.24	....	.85	.17	T.	.09	....	T.	....	....	T.	....	....	....	.07	....	T.	.30	....	....	.06	3 17
Koshkonong	Black	....	.05	.53	....	.48	....	.74	....	....	....	1.06	....	....	.24	....	.04	....	....	....	....	....	....	....	.62	....	....	.40	.95	....	....	....	5.11
Lebanon ‖	Osage	....	....	.03	....	.11	....	.25	.03	....	....	1.25	.03	....	1.52	.03	.02	.27	.17	....	....	....	.14	....	....	.10	.27	....	.11	....	....	....	4.33
Lockwood	do	....	.43	....	....	.12	....	.43	....	....	.12	.53	....	.50	3.58	....	.30	.15	....	....	....	....	....	....	....	1.52	....	....	....	T.	....	....	7.68
Mountain Grove ‖	White	....	....	.11	....	.06	....	....	.07	....	....	2.16	.28	.76	....	.08	....	.05	....	....	....	.06	....	....	....	.04	.06	....	.28	....	....	....	4.01
Neosho	Neosho	....	....	....	....	....	.40	.85	....	....	....	....	1.50	.79	.70	.10	....	....	....	....	....	....	....	....	....	.36	T.	....	T.	....	....	....	4.70
Rolla ‖	Meramec	....	....	T.	....	.90	....	.14	....	....	....	.86	....	....	1.30	....	....	....	.45	....	....	....	.52	....	....	1.30	.15	....	1.38	....	....	....	7.00
Seymour	White	....	.23	T.	T.	....	....	.07	....	....	T.	1.88	....	30	.76	....	.02	T.	....	....	....	....	....	....	....	.26	.28	.26	....	....	....	.01	4.07
Springfield ***	do	....	T.	.03	.08	....	T.	.14	....	....	.12	2.67	.94	.79	1.24	T	T.	.11	....	....	....	....	....	....	....	1.46	T.	.01	....	....	....	T.	7.59
Steelville ‖	Meramec	.59	....	.02	....	....	.02	.25	....	....	....	.72	.20	....	.65	....	....	.13	.15	....	....	.21	.10	....	....	.32	.30	....	2.75	....	....	....	6.41
Tuscumbia ‖	Osage	.05	....	.03	....	.12	....	....	....	....	....	.66	....	....	.19	....	....	1.01	....	....	....	.13	.24	....	....	.92	.51	....	....	....	....	....	3.86
Southwest Plain.																																	
Amoret	Osage	....	.23	....	.24	....	.07	....	....	....	.63	2.28	....	4.22	....	....	.52	.65	....	....	....	....	....	....	....	....	....	....	....	.36	....	....	9.20
Appleton City	do	....	.13	T.	.12	....	.07	T.	....	....	.34	1.93	....	1.87	T.	....	.19	.85	....	....	....	.09	....	....	....	.60	....	....	....	....	....	....	6.19
Clinton	do	....	.10	.15	....	....	.21	....	....	....	.50	2.35	....	.82	....	....	.10	....	.94	....	....	....	....	....	....	1.35	....	....	....	....	....	....	6.52
Harrisonville ‖	do	....	.83	....	....	....	T.	....	....	....	.25	1.23	....	.50	1.05	....	.18	2.62	....	....	....	....	....	....	....	....	....	....	....	.24	....	....	6.90
Lamar ‖	Neosho	....	.03	.07	....	.32	....	.91	.03	....	....	.17	....	T.	1.37	....	T.	.20	T.	....	....	....	....	....	....	....	.10	....	....	.03	....	....	3.23
Lamonte	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Marshall	do	....	1.55	....	T.	....	....	....	....	....	.56	.52	....	.05	....	....	....	1.49	....	....	.15	....	....	....	....	.82	.03	....	....	....	....	....	5.17
Nevada	Osage	....	.23	....	.29	....	.08	T.	....	....	.66	1.02	....	.44	.65	....	.52	.77	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	4.66
Osceola ‖	do	....	....	.07	....	....	....	.26	....	....	.37	2.56	....	1.50	.50	....	.30	1.14	....	....	....	....	....	....	....	1.87	.41	....	....	....	....	....	8.98
Warrensburg	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Warsaw	Osage	T.	T.	.12	.18	....	T.	T.	....	....	1.75	1.90	....	.48	....	....	.27	2 00	....	....	....	.90	....	....	T.	1.26	....	....	....	....	....	T.	8.86
Waverly ‖	Missouri	....	1.37	....	....	....	1.19	....	....	....	T.	1 25	....	T.	.52	....	....	1.61	....	....	....	....	....	....	....	1.02	.14	....	....	....	....	....	7.10
Northwest Plateau.																																	
Avalon	Grand	....	2.25	....	.15	....	....	....	....	....	.50	....	....	....	....	....	....	....	....	....	....	....	....	....	1.60	....	....	....	....	....	....	....	4.50
Bethany	do	T.	1.37	.23	....	....	T.	....	....	....	.05	.15	....	.47	....	....	1.05	....	....	....	.06	....	....	....	T.	.27	....	....	....	T.	....	....	3.65
Chillicothe	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Conception	Missouri	.15	.81	....	.23	....	....	....	....	....	....	....	....	T.	....	....	.45	.03	....	....	.14	....	....	....	.08	T.	T.	....	....	....	....	....	1.89
Edgerton	Grand	* *	3.57	....	.11	....	T.	....	....	....	.32	2.40	....	....	....	....	....	....	....	....	.12	....	....	....	T.	.30	....	....	.11	....	....	....	6.93
Grant City	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Kansas City***	Missouri	.33	.48	T.	.18	....	1.04	....	....	....	2.11	.02	....	.40	....	....	1.37	.10	....	....	.01	....	....	....	T.	T.	T.	.16	.03	....	....	....	6.23
Kidder ‖	Grand	.03	3.53	....	....	....	.11	....	....	....	.25	.21	....	....	.32	....	....	16	....	....	.03	....	....	....	....	.07	....	....	....	....	....	....	4.71
Lexington ‖	Missouri	....	1.55	....	....	.14	1.33	....	....	....	.09	2.00	....	.05	.56	....	.12	2.00	....	....	....	.05	....	....	....	.65	....	....	....	.82	....	....	9.36
Liberty	do	....	1.40	....	.18	....	.66	....	....	T.	.39	2.16	....	.38	.13	....	.34	3 00	....	....	.08	....	....	....	....	.08	....	....	.67	T.	....	....	9.47
Maryville ‖	do	....	1.94	....	....	.32	....	....	....	....	.10	.02	....	....	....	....	....	.47	....	....	.72	T.	....	....	.15	.05	....	....	....	....	....	....	3.77
Oregon	do	....	1.80	....	.33	....	.02	....	....	.05	....	....	.66	....	....	.28	....	....	....	....	.05	....	....	....	T.	....	.15	T.	T.	....	....	....	3.34
St. Joseph***	do	1.05	1.28	....	.53	....	.01	.01	....	....	.33	....	....	.75	....	....	.15	....	....	....	.14	....	....	....	.01	.10	.48	T.	....	....	....	....	4.84
Tarkio	do	.30	.16	....	.18	....	....	....	....	....	T.	T	....	.75	....	....	.93	....	....	.20	.30	....	....	....	.10	....	....	....	....	....	....	....	2 92
Trenton	Grand	2 14	T	....	.04	....	.03	....	....	....	.41	....	....	.04	....	.52	....	....	....	.10	....	....	....	....	....	.74	....	....	....	....	....	....	4.02

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for August, 1921.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	95	73	85	83	95	88	83	87	88	79	91	93	82	80	82	88	88	94	96	80	83	96	99	94	85	93	98	91	93	92	92	88.6
	Minimum	62	70	64	61	64	65	61	56	61	64	69	65	68	68	54	58	60	62	66	63	62	63	62	74	69	69	71	70	74	70	69	65.0
Columbia	Maximum	95	77	79	82	93	85	78	83	87	77	85	88	84	77	78	86	85	88	96	80	78	91	95	92	84	92	92	91	90	89	89	86.0
	Minimum	70	65	65	62	70	65	60	55	62	70	68	67	71	61	55	68	65	64	70	68	63	63	75	72	69	70	73	71	73	68	70	66.7
Fayette§§	Maximum	90	72	77	78	90	83	77	80	82	72	83	86	78	74	75	82	83	85	91	74	78	88	93	89	78	89	90	88	87	85	86	82 7
	Minimum	66	62	62	60	65	65	60	53	58	68	65	62	69	66	52	65	62	61	68	68	60	62	70	70	66	67	70	68	70	65	66	64.2
Hannibal	Maximum	92	76	80	82	92	85	79	84	86	76	87	88	85	76	77	81	86	86	96	79	77	84	85	88	89	93	92	90	92	91	90	85.3
	Minimum	64	64	62	61	65	68	61	58	63	69	71	68	73	62	56	66	67	65	67	65	59	65	70	70	72	72	75	68	76	71	70	66.5
Jefferson City §§	Maximum	95	82	77	85	90	90	80	87	87	77	86	92	85	77	83	86	87	88	95	85	78	90	95	97	82	91	96	92	91	90	90	87.3
	Minimum	62	70	65	63	65	68	65	55	59	67	68	67	71	70	56	60	65	65	67	71	62	63	67	72	70	68	71	69	72	66	69	66.1
Kirksville	Maximum	88	76	80	82	91	83	80	84	85	80	90	90	88	87	77	84	85	88	94	88	77	87	95	87	90	94	92	90	91	91	94	86.7
	Minimum	64	63	57	60	66	62	59	55	59	69	69	61	60	63	55	64	66	62	68	65	56	61	69	68	71	78	68	64	72	70	64	64.1
Louisiana	Maximum	88	94	80	82	90	92	86	86	85	92	88	92	88	80	74	80	83	88	92	94	88	82	86	87	94	92	96	94	92	93	93	88.1
	Minimum	68	67	62	78	68	68	62	54	55	68	70	65	70	68	52	64	68	65	63	68	65	67	70	68	70	68	75	65	74	68	68	66.5
Macon §§	Maximum	95	73	81	83	93	87	82	85	88	77	89	90	86	79	79	85	86	89	97	78	83	92	96	91	90	93	94	94	94	91	91	87.5
	Minimum	68	67	59	59	64	66	60	56	57	68	68	64	68	66	50	55	64	62	66	65	58	61	66	68	70	68	72	66	73	68	66	64.1
Mexico §§	Maximum	97	79	81	84	94	87	81	87	90	90	89	91	85	79	81	85	89	89	97	82	81	91	99	94	82	94	99	93	94	93	93	88.7
	Minimum	61	68	61	60	65	69	61	54	58	64	67	65	70	67	50	57	65	64	67	69	60	62	63	74	70	68	71	68	73	67	69	64.7
St. Catherine	Maximum	89	84	80	79	88	82	78	85	83	80	85	90	84	80	76	82	85	88	93	85	77	88	97	88	83	90	93	89	88	90	89	85.4
	Minimum	65	63	59	60	65	66	58	55	60	68	68	62	69	64	52	64	65	62	67	65	58	62	69	68	69	67	72	66	72	69	65	64.3
St. Louis (1)	Maximum	95	86	79	86	94	85	77	82	87	83	84	89	88	78	79	80	86	87	97	88	81	87	88	81	90	92	88	90	91	90	90	86.4
	Minimum	70	69	65	69	70	67	62	66	68	67	71	73	72	63	57	65	72	71	72	71	63	64	68	70	72	73	69	68	73	73	74	68.6
Unionville	Maximum	87	77	82	80	90	84	78	84	85	80	88	90	88	78	79	83	85	88	95	86	77	87	92	88	86	92	90	90	91	90	92	85.9
	Minimum	61	60	55	57	65	65	56	54	57	68	66	60	64	60	55	62	64	60	66	63	54	60	66	68	70	67	70	61	70	67	62	62.4
Warrenton §§	Maximum	96	84	81	87	87	85	79	86	90	79	87	92	87	76	80	83	87	89	98	85	86	90	99	95	92	95	95	92	91	93	90	88.1
	Minimum	62	67	65	62	66	68	60	59	59	65	68	68	70	69	52	55	66	65	64	71	61	61	65	74	63	68	71	65	71	66	68	65.1
Southeast Lowlands.																																	
Caruthersville	Maximum	106	105	92	96	100	98	92	96	98	98	98	100	98	90	81	91	96	105	109	108	96	101	106	100	102	103	89	100	103	103	102	98.8
	Minimum	72	72	72	68	70	70	70	62	62	62	74	72	72	76	69	72	75	75	74	76	75	70	68	70	72	70	69	71	68	71	71	70.6
Doniphan	Maximum	101	103	82	88	90	94	89	86	88	91	87	90	89	84	78	89	90	96	98	99	89	92	98	90	91	96	89	90	92	90	90	90.9
	Minimum	69	74	70	62	68	74	69	58	59	61	69	71	60	73	65	70	73	70	65	70	72	67	65	68	68	68	69	68	64	65	69	67.8
Jackson	Maximum	97	99	78	92	92	96	80	87	90	92	85	93	92	84	83	86	94	95	98	100	81	92	90	93	95	96	82	85	92	93	95	80.5
	Minimum	68	72	68	62	62	68	69	53	58	55	70	66	67	71	58	63	73	87	87	79	60	65	72	68	69	69	63	64	68	68	67	67.4
Poplar Bluff§§	Maximum	100	100	80	87	90	90	82	86	87	88	81	92	91	82	81	85	93	95	98	99	96	92	95	91	93	94	83	89	99	98	90	90.4
	Minimum	70	75	70	63	68	74	69	59	59	61	60	71	71	74	64	71	73	73	65	73	71	66	66	69	70	69	70	68	65	69	69	68.2
Cairo, Ill.	Maximum	94	95	76	85	88	85	78	81	84	86	81	87	89	78	79	82	89	90	93	96	78	85	87	84	87	89	78	87	88	87	88	85.6
	Minimum	70	74	70	68	70	66	69	65	65	65	72	73	69	70	64	70	75	71	70	75	66	66	69	70	68	72	71	72	68	72	70	69.6
Ozark Plateau.																																	
Arcadia §§	Maximum	95	92	75	85	90	84	80	81	84	82	76	86	85	75	79	81	88	90	97	96	74	86	91	82	88	90	82	89	85	86	86	85.2
	Minimum	64	69	66	60	64	69	65	50	52	55	68	66	64	69	56	61	69	64	59	65	65	59	64	71	63	66	70	63	64	62	67	63.5
Birchtree	Maximum	100	98	76	86	86	82	84	84	82	80	87	84	76	76	79	83	89	90	95	96	90	90	96	89	86	91	86	86	87	86	84	86 6
	Minimum	71	72	64	59	63	66	56	60	64	66	69	69	..	70	61	67	70	69	65	68	67	65	69	69	68	67	67	61	66	63	66	ᵃ65.9
Eldon	Maximum	98	85	77	80	97	96	82	87	80	78	82	91	85	87	88	88	92	92	95	90	85	95	95	98	82	92	94	95	90	90	90	88.9
	Minimum	64	62	60	55	62	67	60	49	54	62	62	60	65	65	51	69	51	55	59	65	58	62	67	63	63	62	67	63	62	69	63	61.2
Farmington	Maximum	97	90	76	84	92	85	82	84	84	86	82	92	92	78	82	82	84	89	95	95	86	88	95	84	88	95	88	91	94	93	90	87.6
	Minimum	67	69	66	64	66	63	65	54	57	62	70	67	68	72	54	66	66	68	69	65	65	60	62	72	66	69	65	65	66	65	70	65.3
Hollister	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Koshkonong	Maximum	98	98	79	87	87	93	84	84	85	87	81	84	86	89	78	86	89	93	96	98	87	93	98	94	83	92	89	86	90	87	87	88.6
	Minimum	71	72	68	63	66	70	68	60	62	65	68	68	69	70	65	70	72	73	71	72	76	67	72	71	70	70	69	68	68	66	68	68.5
Lebanon §§	Maximum	96	84	83	88	94	95	83	90	86	86	87	91	86	79	81	76	89	94	94	84	72	82	87	90	77	92	93	94	90	90	89	87.2
	Minimum	68	72	63	62	63	69	59	51	53	65	66	65	60	68	56	58	65	65	65	70	56	65	65	70	70	67	70	60	69	62	60	63.8
Mountain Grove §§	Maximum	96	95	79	88	90	95	81	87	86	86	78	88	85	77	79	84	70	92	85	96	81	90	95	96	81	90	90	89	87	86	86	87.0
	Minimum	70	71	65	60	62	70	68	54	56	64	63	65	69	65	62	64	69	68	70	71	67	65	68	71	70	67	71	65	69	65	67	66.2
Neosho	Maximum	96	94	83	94	97	98	88	87	88	91	90	92	88	79	80	90	89	96	93	96	96	95	95	97	83	92	93	89	90	89	88	90.8
	Minimum	69	60	64	55	70	67	60	55	65	69	69	70	68	67	67	68	73	69	71	71	68	68	68	67	67	67	68	68	69	64	65	66.6
Rolla	Maximum	97	85	77	86	92	93	80	88	88	97	85	93	84	76	83	85	85	91	96	92	80	92	97	92	86	92	92	91	89	90	89	88.5
	Minimum	65	72	65	60	63	67	64	56	56	67	67	66	68	70	56	56	65	65	67	71	66	63	66	72	67	67	70	66	69	65	66	65.3
Springfield	Maximum	94	85	80	83	96	89	77	82	82	85	85	85	81	75	76	88	84	92	91	94	85	91	92	94	77	85	91	87	85	83	84	85 7
	Minimum	72	67	64	63	69	71	61	61	67	68	66	71	68	66	65	69	67	72	74	71	68	70	73	73	68	70	67	68	71	68	68	68.3
Southwest Plain.																																	
Amoret	Maximum	93	84	80	76	93	86	78	83	86	80	82	87	84	75	77	84	90	92	92	85	82	94	96	94	85	92	90	90	90	87	86	86.2
	Minimum	68	65	63	59	62	68	61	54	64	68	63	65	67	67	60	63	65	68	67	69	63	65	68	70	68	67	72	68	65	64	65	65 2
Appleton City	Maximum	93	86	79	80	95	88	82	85	87	80	84	89	84	75	79	88	87	92	92	87	81	94	93	93	89	93	..	90	84	90	88	ᵃ86.9
	Minimum	72	69	64	62	66	70	63	56	67	70	66	68	69	69	60	69	65	61	73	71	65	67	72	73	69	68	74	72	72	67	68	67.7
Clinton	Maximum	97	94	82	82	98	92	85	92	90	88	86	97	85	78	84	90	90	96	95	91	82	97	98	98	85	96	96	97	93	92	91	90.9
	Minimum	70	68	65	60	65	69	64	58	64	70	66	67	64	68	59	70	65	64	72	71	63	66	70	70	68	66	73	70	73	66	68	66.8
Harrisonville §§	Maximum	91	71	79	77	91	85	82	84	85	78	84	87	80	75	78	88	90	89	92	82	79	93	96	90	83	91	92	92	89	89	87	85.6
	Minimum	71	68	64	62	65	63	60	56	61	68	66	68	69	68	58	59	65	65	67	70	61	61	70	71	71	68	71	78	70	62	68	66.0
Lamar §§	Maximum	97	80	84	85	99	89	82	87	89	88	91	92	90	77	81	90	89	98	96	96	90	99	100	100	82	98	97	90	94	93	91	90.8
	Minimum	70	73	64	61	67	72	58	56	65	69	66	69	70	70	63	67	65	66	70	69	66	70	70	69	72	68	70	71	70	64	66	67.3
Lamonte	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Marshall	Maximum	93	85	80	80	92	87	82	85	86	78	86	90	85	81	80	83	88	90	94	83	80	92	98	96	82	92	97	93	90	91	90	87.4
	Minimum	68	66	65	61	75	65	60	53	59	69	68	65	70	67	54	56	65	65	69	68	63	63	70	72	62	62	70	70	73	73	67	65.6
Nevada	Maximum	92	88	79	81	92	87	81	83	85	83	83	85	84	76	78	87	86	90	91	90	83	93	95	93	86	93	91	88	90	87	87	86.7
	Minimum	72	67	64	61	64	67	61	54	67	69	65	65	68	69	62	69	65	64	75	70	65	66	72	73	70	69	72	72	70	67	68	67.2
Warrensburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warsaw	Maximum	97	89	80	84	98	92	92	90	90	84	85	90	86	79	83	89	89	93	93	87	81	95	96	95	82	92	94	92	91	90	91	89.3
	Minimum	70	69	65	71	65	68	65	51	62	70	66	66	72	70	61	71	65	63	70	71	63	65	73	69	68	67	72	70	73	67	69	67.3
Northwest Plateau.																																	
Chillicothe	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Grant City	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Kansas City	Maximum	94	73	76	78	91	81	80	83	84	77	81	87	85	73	77	88	87	89	94	80	77	95	96	88	86	93	91	92	91	88	87	85.2
	Minimum	72	65	64	65	67	65	62	62	66	67	67	69	71	65	59	68	66	70	77	66	64	67	76	76	73	71	78	76	73	72	72	68.7
Kidder §§	Maximum	100	72	85	84	95	86	84	87	88	83	91	93	91	80	81	87	96	91	98	99	86	98	101	96	89	100	100	95	93	93	92	90.8
	Minimum	75	70	67	68	71	74	75	65	68	76	74	70	75	75	62	72	70	80	72	72	67	71	78	77	75	77	77	75	76	75	70	72.5
Lexington §§	Maximum	94	88	79	79	92	88	81	84	86	81	85	87	85	79	78	87	89	90	93	88	85	94	97	94	85	93	97	93	90	89	88	87.7
	Minimum	69	70	64	61	65	65	60	56	63	71	67	67	73	67	57	68	64	64	72	70	63	65	74	75	70	69	74	72	70	70	68	67.2
Maryville §§	Maximum	95	66	80	77	92	82	81	86	87	83	89	90	92	79	79	86	86	90	99	74	80	95	93	87	89	99	96	92	93	93	91	87.1
	Minimum	63	58	56	56	61	63	56	53	55	61	61	60	61	60	55	50	63	57	58	61	54	62	62	69	69	68	70	67	70	70	64	61.1
Oregon	Maximum	91	73	80	86	88	82	81	84	82	85	89	90	76	77	86	84	87	89	95	86	80	92	91	85	87	94	91	89	89	90	89	86.1
	Minimum	68	58	54	61	64	64	54	60	69	63	61	62	61	55	66	63	61	62	72	61	58	65	69	70	70	71	70	69	71	71	66	64.2
St. Joseph	Maximum	93	71	82	79	93	83	79	84	86	78	87	89	89	78	79	87	86	91	97	78	83	96	98	87	88	95	95	91	92	92	90	87.0
	Minimum	70	62	61	63	66	66	59	57	64	71	68	66	69	61	58	68	67	63	73	65	62	66	75	74	72	72	74	72	75	74	70	67.2
Trenton	Maximum	92	84	78	79	89	82	79	82	87	81	85	85	88	76	78	82	85	94	84	79	88	90	94	90	83	91	90	89	88	88	87	85.4
	Minimum	68	62	60	66	65	68	58	56	62	70	68	68	71	65	65	67	65	71	67	61	64	70	71	70	72	69	70	68	73	72	68	66.8

ᵃ, ᵇ, ᶜ, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

XV. Columbia, Mo., Year 1921. No. 13.

GENERAL SUMMARY.

In Missouri the year 1921 will long be noted as the all warm year. The year with the highest mean temperature during thirty years or more, and the only one in which all months were above normal temperature.

Other peculiarities of the year include the fact that there were only about 10 typical winter days, that is, days on which the temperature did not rise above 32 degrees in any hour of twenty-four, whereas during a normal winter they number from 25 to 30. During an average year temperatures usually reached 32 degrees or lower on about 116 days; last year there were not as many by 20 per cent. During an average season snow is on the ground from about 30 to 35 days, but last year such days did not exceed 15.

After all the most remarkable feature of the year was the steady and persistent accummulation of warmth. The accummulated excess in temperature from January 1 to March 31 was 742 degrees. By the end of June this amount had increased to 932 degrees, and at the end of the year it was 1,397 degrees. If we include December, 1920, we get 13 consecutive months with an accummulation of 1,477 degrees, or a daily average of nearly 4 degrees. March, with an excess of 264 degrees, leads the months, but February, with its 28 days and excess of 255 degrees, or an average of about 9 degrees a day, was really a more remarkable accummulation of warmth than March shows. This record never has been equaled in Missouri since the beginning of authentic temperature records in 1888.

It was a fair to good year for crops. The abnormally warm winter forced winter wheat beyond its seasonal growth. The late March freeze damaged it somewhat and it was further damaged by the sudden change from cool to hot in May. Corn was damaged in some central and eastern sections through lack of moisture in July, and by local floods in September. The crop as a whole was satisfactory. Nearly all fruits were killed by the freeze at the end of March and about the middle of April.

TEMPERATURE.

The annual mean for the State was 58.2°, or 3.8° above the normal. All months were warmer than normal, the most marked departures occurring in January, February, March, June, September, and December. The accumulation of warmth was uniformly distributed over all sections, but perhaps slightly more marked in northern sections. The extremes, however, did not equal those of other years. The highest temperature was 109°, at Caruthersville, Pemiscot County, on July 17th; and the lowest was −8°, at Bethany, Harrison County, on December 25th.

PRECIPITATION.

The annual precipitation for the State (rainfall and melted snow), was 43.77 inches, or 4.22 inches more than the normal. The greatest local annual amount was 61.33 inches, at Warsaw, Benton County; and the least was 21.48 inches, at Conception, Nodaway County. The greatest local monthly amount was 14.95 inches, in September, at Avalon, Livingston County. No precipitation fell in November at Kidder, Caldwell County, and only a Trace, and 0.03 inch respectively, at Unionville, Putnam County and Appleton City, St. Clair County. March, April, June, August, and September, were the relatively wet months. February, May, and July, were the most noticeable for deficient moisture. The seasonal snowfall was only 11.5 inches, but it was unusually well distributed.

The principal rivers remained well within banks: but some of the smaller streams went out of banks for a short time in April, September, and November, the most damage being confined to the Black River drainage basin.

THE WEATHER BY MONTHS.

January—An unusually mild and pleasant month. The last 10 days were rather cloudy and wet but not cold. A few days about the middle of the month made up the coldest spell. Zero temperature occurred on one day, the 17th, at three stations; and 32° or lower occurred on only 21 days. A general and deep snow fell on the 13th but melted rapidly. Most of the precipitation fell during the last 10 days, and was generally sufficient for needs. Winter wheat fared well. In southern sections fruit buds awakened from their dormant state, indicating premature blooming.

February—Probably the most pleasant winter month in 30 years or more. Precipitation was light and infrequent; and there was much sunshine. The monthly mean temperature was only a few degrees lower than the normal for March. The eastern part of the Ozarks, and southeastern counties were heavily covered with snow on the 19th and 20th. Some delay to transportation was occasioned by depths ranging from 9 to 15 inches. The soil generally was in good condition most of the month. Much plowing was done, and about one-third of the oat crop sown. Winter wheat was in fine condition. The general condition of fruit buds was one month ahead of the seasonal stage.

March—Remarkably mild weather prevailed up to the last three or four days, when there was a sudden change from pleasant warmth to winter cold. During the middle of the month temperatures ranged into the high 80's. During the last four days a hard freeze prevailed, even to the southern border. Precipitation was heavier than normal, and rather more than needed. A general but moderate snow fell on the 27th. All vegetation, including farm crops such as wheat, oats, and alfalfa, was damaged. To fruits the freeze was well-nigh disastrous.

April—Generally mild but wetter than usual. A freeze prevailed on the 17th and 18th, and killed most of the fruit remaining after the March freeze. There was a general snow on the 15th and 16th, preceding the freeze. There was some warm weather during the last 10 days with temperatures ranging from 85° to 91°. The Black River, in the southeastern part of the State, was out of banks during the last week, flooding most of the low lands. Wet soil delayed plowing, and corn planting. Wheat, meadows, and pastures made good growth, but oats made but slow recovery.

May—Cool and showery the first half, changing suddenly to hot and relatively dry. Temperatures of 32° or lower occurred on the 2nd and 3rd; and 102° was recorded on the 23rd. The warmth of the last 10 or 12 days was equal to the normal for the same days in June. Farmers caught up with their work during the drier weather. Wheat improved, but the sudden heat forced head-making. Oats still poor.

June—A warm month, although without any unusually high temperatures. There were 13 days with 90° or higher, but only three days with 100° or higher, at two stations. It was excessively wet in some localities, moderately so in others, and relatively dry in a few. Wheat harvest was further advanced than usual, the hot weather having forced the grain too rapidly. Corn made fine growth.

July—A hot and relatively dry month, with more sunshine than normal. Precipitation was deficient but quite well distributed, particularly on days with the most general showers,

(Continued on Page 53.)

Climatological data for Year, 1921.

Stations	Counties		Temperature (Degrees Fahrenheit)						Precipitation (inches)							Number of days				
		Elevation, feet	Length of record, yrs.	Annual mean	Highest	Date	Lowest	Date	Length of record, yrs.	Total	Greatest monthly	Month	Least monthly	Month	Total snowfall	With precip. .01 inch or more	Clear	Partly cloudy	Cloudy	Prevailing direction of wind
Northeast Plain.																				
Brunswick	Chariton	652	43	57.5	99	July 30†	4	Dec. 25	43	45.96	8.95	Sept.	0.66	Feb.	17.2	100	210	0	155	nw
Clifton Hill	Randolph	731	23	58.4	99	" 17†	1	" 25	23	43.35	11.06	"	0.52	"	9.1	106	190	105	70	..
Columbia	Boone	748	32	57.6	98	" 27	7	Jan. 17†	32	41.70	10.04	"	0.45	"	13.1	119	141	111	113	s.
Downing	Schuyler	878	1	....	99	" 12	−8	Dec. 25	13	41.15	8.10	"	0.48	Nov.	13.2	101	186	79	100	s
Fayette	Howard	661	39	54.6	94	" 30	0	" 25	39	48.39	10.28	"	0.24	Feb.	10.8	80	....	....	....	..
Fulton	Callaway	818	30	58.1	100	" 13	7	Jan. 15	30	44.77	10.22	"	0.81	"	13.0	130	161	125	79	sw.
Gorin	Scotland	700	......	....	..	....	..	....	35	39.54	6.93	April	0.73	"	8.6	95	123	98	141	sw.
Hannibal	Marion	534	30	57.4	98	July 12	5	Jan. 17	38	35.51	8.05	Sept.	0.40	"	8.2	120	137	101	127	sw.
Jefferson City	Cole	557	35	57.9	100	" 30	8	Dec. 25	39	44.14	6.84	June	0.65	July	18.4	108	236[a]	41[a]	37[a]	s.
Kirksville	Adair	969	33	55.5	99	" 12	−3	" 23	40	39.95	6.24	Sept.	0.64	Nov.	12.2	78	196[d]	65[d]	100[d]	nw.
Louisiana	Pike	469	28	58.5	100	" 12	5	Jan. 15	41	49.63	8.14	"	1.08	Feb.	8.0	118	217[a]	57[a]	90[a]	s.
Macon	Macon	875	24	56.1	99	" 13†	4	" 17†	29	41.89	8.40	"	0.68	"	7.7	103	185	84	96	sw.
Mexico	Audrain	800	34	57.0	101	" 17†	5	Dec. 25	44	43.43	10.66	"	0.50	"	13.0	106	224	26	115	w.
Palmyra	Marion	652	21	....	101	" 11†	2	" 25	23	....	....	....	0.61	"	....	....	....	....	....	sw.
St. Catherine	Linn	800	13	55.5	97	" 30†	−3	" 25	13	42.48	9.46	Sept.	0.62	Nov.	16.5	110	162	120	83	sw.
St. Charles	St. Charles	456	34	59.6	100	" 17	10	Jan. 15†	44	38.47	6.05	Mar.	0.80	Feb.	7.7	86	143[a]	118[a]	103[a]	s.
St. Louis (1)	St. Louis City	717	48	60.1	98	" 13	12	" 17	85	41.10	7.01	April	1.08	"	4.6	116	145	123	97	s.
St. Louis (2)	......do	578	10	59.2	98	Aug. 19	12	" 17	10	39.02	6.08	Mar.	0.89	"	4.4	121	147[a]	110[a]	108[a]	s.
Shelbina	Shelbina	779	......	....	..	....	..	....	29	41.29	10.54	Sept.	0.60	"	....	....	....	....	....	..
Steffenville	Lewis	650	23	58.1	104	July 12	−2	Dec. 25	29	40.15	6.00	April	0.70	"	10.0	98	158	125	82	s.
Unionville	Putnam	1,062	29	55.0	95	" 12†	−6	" 25	29	40.14	7.15	Aug.	T.	Nov.	14.5	78	165	83	117	n.
Warrenton	Warren	816	40	57.6	100	" 13†	9	Jan. 15†	40	47.72	10.11	Sept.	0.85	Feb.	14.5	106	119	127	119	s.
Keokuk, Iowa	Lee, Iowa	574	50	56.3	99	" 13	2	Dec. 25	50	34.99	7.48	"	0.48	"	16.7	107	86	141	138	s.
Section means and	extremes	....	......	57.4	104	July 12†	−8	Dec. 25	......	42.04	11.06	Sept	T	Nov.	11.5	104	167	92	106	s
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	27	66.6	109	July 17†	22	Feb. 20	31	45.53	7.57	Nov.	0.46	Oct.	12.0	84	233	41	88	e.
Doniphan	Ripley	344	18	61.3	103	Aug. 2	14	" 20	18	47.38	6.85	Sept.	0.36	"	13.0	93	196	87	82	s
Jackson	Cape Girardeau	428	31	....	103	July 16	14	Jan. 15	32	49.11	9.45	Nov.	0.91	"	9.0	108	97[b]	118[b]	148[b]	s.
Marble Hill	Bollinger	470	27	60.8	103	" 14	14	" 15	12	59.01	10.04	Aug.	1.41	"	8.0	82	181	118	66	s.
Parma	New Madrid	281	......	....	..	....	..	....	1	46.48	10.11	Nov.	0.48	"	17.5	80	....	....	....	......
Patton	Bollinger	500	......	....	..	....	..	....	14	56.97	10.00	"	1.25	"	5.0	71	....	....	....	......
Poplar Bluff	Butler	339	18	....	103	July 7†	..	....	18	.....	.....	.....	....	......	....	....	....	....	....	......
Vanduser	Scott	304	.	....	..	....	..	....	1	49.23	8.04	Nov.	0.84	Oct.	13.0	89	....	....	....	......
Cairo, Ill.	Alexander, Ill.	359	47	61.5	97	July 14	21	Jan. 15	50	42.52	11.18	"	0.82	"	13.5	117	96	117	152	s
Section means and	extremes	....	......	62.3	109	July 17†	14	Jan. 15†	......	49.53	11.18	Nov.	0.36	Oct.	11.4	90	161	97	107	s.
Ozark Plateau.																				
Arcadia	Iron	926	41	57.8	97	July 5†	12	Jan. 15†	44	55.43	8.42	April	1.12	Feb.	8.5	111	155[c]	90[c]	116[c]	s.
Birchtree	Shannon	1,000	28	59.5	100	Aug. 1	10	" 15	29	55.18	8.62	Nov	1.78	Oct	10.0	86	217[c]	65[c]	80[c]	s.
Bolivar	Polk	1,071	28	58.6	98	July 28†	9	" 15	33	44.11	7.49	Mar.	0.56	Feb	11.1	85	209	76	80	sw.
Dean	McDonald	1,000	23	59.9	102	" 30	5	Feb. 20	23	45.87	11.23	"	1.12	July	11.0	91	234	40[d]	87[d]	sw.
Eldon	Miller	934	26	57.6	108	" 6	3	Dec. 25	23	46.35	7.86	Sept.	1.06	Feb.	12.2	161	118[c]	143[c]	101[c]	s.
Farmington	St. Francis	918	12	58.6	98	" 17	11	Jan. 15	25	48.75	7.26	April	1.21	"	9.7	110	163	131	71	sw.
Gano	Dent	1,250	18	57.7	97	" 30	10	" 15	21	50.70	7.61	Mar.	0.79	"	7.0	106	185	78	94	s.
Goodland	Iron	1,000	28	58.6	97	" 13	10	" 15	29	56.30	10.83	Sept.	1.02	"	8.0	78	225	66	74	s.
Hollister	Taney	735	35	....	106	" 30	8	" 10	19	.....	7.85	June	0.80	Oct.	9.0	....	....	....	....	sw.
Houston	Texas	1,280	30	....	97	July 13†	..	....	30	49.76	7.66	Sept.	1.35	Feb.	10.5	97	169	95	101	sw.
Koshkonong	Oregon	958	21	61.9	101	" 17	15	Jan. 15	21	50.21	8.58	Mar.	1.73	Oct.	0.5	98	146[h]	94[h]	117[h]	sw.
Lebanon	Laclede	1,265	35	58.4	98	" 30	6	" 15	35	55.43	9.52	June	0.60	Feb.	6.8	116	191	78	96	s.
Lockwood	Dade	1,078	16	59.8	97	Aug. 5	10	" 15	26	49.50	8.84	Sept.	0.55	"	10.7	82	208	57	98[b]	sw.
Mountain Grove	Wright	1,463	22	58.3	100	July 30	10	" 15	26	49.46	10.07	June	1.55	"	10.0	97	143	82	140	s.
Neosho	Newton	1,011	34	60.2	98	Aug. 6	6	" 15	39	37.40	7.28	"	0.66	Oct.	9.0	78	217[d]	73	71[d]	sw
Rolla	Phelps	1,099	22	59.4	97	July 12†	10	" 15	38	51.84	9.04	"	0.59	Feb.	5.8	86	186	117	62	s
Seymour	Webster	1,642	16	59.3	97	" 30	10	" 15	16	43.04	10.45	"	0.77	"	4.9	103	177	96	92	sw.
Springfield	Greene	1,350	34	58.9	96	Aug. 5	12	Dec. 25	34	47.21	9.68	"	0.70	July	10.4	119	190	84	91	s.
Section means and	extremes	....	......	59.0	108	July 6	3	Dec. 25	....	49.21	11.23	Mar.	0.55	Feb.	9.2	97	185	87	93	s.
Southwest Plain.																				
Amoret	Bates	831	16	57.6	96	July 30	4	Dec. 25	16	47.75	9.20	Aug.	0.16	Feb.	10.8	82	180	86	99	sw.
Appleton City	St. Clair	853	28	59.1	95	" 7†	8	Jan. 15	30	50.13	10.30	Sept.	0.03	"	11.2	96	180	115[a]	69[a]	sw.
Clinton	Henry	765	30	60.0	100	" 11	10	Dec. 25	35	45.83	6.76	"	0.25	"	16.5	74	163	101[b]	93[b]	sw.
Harrisonville	Cass	904	45	56.8	96	" 30†	6	" 25	47	46.51	11.87	"	0.33	Nov.	12.7	90	126	81	159	s.
Lamar	Barton	980	35	59.5	100	Aug. 23†	4	Jan. 15	41	37.93	7.36	"	0.17	Feb.	10.5	100	203	36	126	s.
Lamonte	Pettis	867	22	....	99	July 30†	5	Dec. 25	35	.....	16.86	Aug.	....		....	....	....	....	....	se.
Marshall	Saline	779	33	57.6	98	Aug. 23	5	" 25	33	44.36	11.58	Sept.	0.42	Feb.	11.5	80	180[i]	94[i]	79[i]	sw.
Nevada	Vernon	862	29	59.1	95	" 23	9	" 25	30	46.28	10.30	June	0.25	"	9.5	79	198	66	101	s.
Warsaw	Benton	687	22	59.8	98	Aug. 5	8	" 25	27	61.33	11.39	"	0.55	"	17.0	105	136	180	49	w.
Section means and	extremes	....	......	58.7	100	July 11†	4	Jan. 15†	......	47.52	11.87	Sept.	0.03	Feb.	12.5	88	172	96	97	sw.
Northwest Plateau.																				
Avalon	Livingston	730	25	57.2	100	Aug. 23	3	Dec. 25	25	50.61	14.95	Sept.	0.80	Feb.	11.0	70	197[i]	104[a]	63[a]	sw
Bethany	Harrison	916	31	56.4	101	July 30	−8	" 25	31	25.81	5.02	"	T	Nov.	20.5	70	112	98	115	sw.
Conception	Livingston	980	34	56.4	102	Aug. 19	−3	" 25	38	21.48	4.74	"	T.	"	13.5	72	150	130	84	sw.
Edgerton	Nodaway	856	2	56.7	96	July 27†	1	" 25	10	42.57	8.04	"	0.01	"	8.6	82	214[f]	45[f]	100[f]	sw.
Kansas City	Jackson	963	33	58.4	96	" 30	7	" 24	33	40.87	9.67	June	0.07	"	11.9	102	160	113	92	s.
Kidder	Caldwell	1,020	29	58.0	102	" 30	6	Jan. 17†	35	35.74	12.17	Sept.	0.00	"	7.2	76	211	37	117	se.
Lexington	Lafayette	688	37	57.8	97	Aug. 23†	5	Dec. 25	40	38.87	9.36	Aug.	0.30	"	10.4	97	174	95	96	s.
Liberty	Clay	859	32	58.0	98	July 30	2	" 25	32	44.04	9.47	"	0.07	"	7.2	94	181	109	75	sw.
Maryville	Nodaway	1,036	32	53.4	100	" 30	−2	" 25	32	27.06	5.79	Sept.	0.03	"	13.8	94	200[a]	45[a]	119[a]	s.
Oregon	Holt	1,048	37	55.5	95	" 30	−1	" 24†	67	32.38	6.79	"	T.	"	15.3	64	171	112	82	s.
St. Joseph	Buchanan	967	14	57.2	99	" 30	4	" 24	50	32.78	7.31	"	0.03	"	12.0	97	176	99	90	s.
Tarkio	Atchison	916	19	....	100	Aug. 19	−1	" 24†	29	.....	.....	....	T.	"	22.0	....	....	....	....	......
Trenton	Grundy	822	26	55.6	94	July 17†	2	" 25	27	36.14	7.13	Sept.	0.14	"	15.0	87[a]	205[a]	82[a]	77	s.
Section means and	extremes	....	......	56.7	102	July 30†	−8	Dec. 25	......	35.70	14.95	Sept	0.00	Nov.	13.0	84	182	90	93	s.
State means and	extremes	....	......	58.2	109	July 17†	−8	Dec. 25	......	43.77	14.95	Sept.	0.00	Nov.	11.5	93	173	92	100	s.

†Also on other dates.

a, b, c, indicate the number of days missing from records, a, 1; b, 2; c, 3; etc

SUMMARY—*Continued from Page 49.*

and resulting crop damage was less marked than usually attends so marked a deficiency. There were a few hail, and wind storms, the damage being confined to small areas.

AUGUST—Generally warm and humid. A wearisome month from the side of personal comfort, but quite satisfactory from the agricultural side. The bulk of the corn crop was well along to maturity by the close of the month; and the preparation of the soil for fall seeding was well advanced.

SEPTEMBER—Excessive precipitation and persistent warmth were the outstanding features. Creeks and small rivers of the central parts of State went out of banks, damaging and destroying considerable corn. Preparing soil for winter wheat was hindered or stopped completely. Much good hay was ruined. Altogether an unsatisactory month on the farm.

OCTOBER—One almost continuous spell of "beautiful weather", the term usually applied by the general public. Highly favorable for outdoor life, and farm work. Heavy to killing frosts occurred locally on the 8th, and 12th, but there was much vegetation still green when the month ended, especially in the central and northern sections.

NOVEMBER—A mild month, with one cold spell, which began on the 10th and ended on the 13th. Temperatures ranged from 10° to 20° above zero. This also was the first general freeze of the autumn. Precipitation was excessive in the southeastern part of the State; and damaging floods resulted from overflows of the Black, Current, and St. Francois Rivers. Winter wheat was in satisfactory condition. Corn was mostly in crib. Pastures very good.

DECEMBER—Exceptionally bright and pleasant, except a touch of real winter from the 20th to the 27th, the outstanding feature being a sleet or glaze storm on the 22nd and 23rd—moderate but steady rain falling while temperatures were several degrees below the freezing value. Live stock was on pastures most of the month. Winter wheat did fairly well, some of the early sown, however, being fly infested.

Comparative Annual Data for the State.

Year	Temperature			Precipitation
	Mean	Maximum	Minimum	
1888	52.9	111	−32	41.22
1889	54.3	107	− 9	37.91
1890	54.7	106	−19	35.71
1891	53.9	108	−11	38.04
1892	53.4	101	−11	42.76
1893	52.7	107	−20	38.19
1894	55.1	111	−35	33.18
1895	52.9	106	−26	39.30
1896	55.5	108	−10	44.63
1897	55.0	108	−16	38.82
1898	54.4	104	−20	53.67
1899	54.0	108	−32	37.32
1900	55.6	105	−16	38.34
1901	55.5	116	−29	25.28
1902	54.1	103	−17	44.96
1903	53.6	102	−25	40.15
1904	53.2	100	−23	41.62
1905	53.6	103	−40	45.43
1906	55.1	101	−13	37.34
1907	55.6	109	−15	41.81
1908	56.7	102	−10	42.56
1909	56.7	110	−20	45.16
1910	55.0	109	−24	36.86
1911	56.9	113	−19	38.94
1912	53.6	105	−36	38.68
1913	56.5	110	−12	37.47
1914	56.1	109	−18	34.72
1915	54.8	102	−24	49.62
1916	55.2	109	−29	40.33
1917	52.3	107	−23	31.94
1918	55.5	111	−25	37.16
1919	55.2	106	−23	40.05
1920	54.3	105	−10	37.17
1921	58.2	109	−8	43.77
Average 34 yrs.	54.8	116	−40	39.71

Monthly Data of the State for 1921

Month	Temperature				Precipitation				
	Mean	Departure from Normal	Maximum	Minimum	Mean	Departure from Normal	Greatest	Least	No. Days with .01 or more
January	37.1	+7.2	74	− 1	1.88	−0.38	4.06	0.51	6
February	40.1	+9.1	86	5	0.94	−1.33	5.52	0.02	4
March	51.9	+8.5	90	11	4.69	+1.68	11.23	0.65	10
April	56.0	+0.9	91	19	5.37	+1.52	8.42	1.86	10
May	66.4	+2.0	102	28	3.69	−1.20	7.54	1.28	7
June	76.6	+3.4	105	44	5.71	+1.15	11.39	2.31	12
July	80.3	+2.9	109	46	2.32	−1.77	5.60	0.43	5
August	76.8	+0.8	109	48	5.27	+1.63	10.04	1.79	9
September	73.4	+4.7	104	34	7.03	+3.15	14.95	0.95	13
October	57.9	+0.8	92	24	2.19	−0.40	5.28	0.36	5
November	45.6	+1.2	84	10	2.82	+0.40	10.11	0.00	5
December	36.9	+3.8	74	− 8	1.86	−0.23	3.74	0.13	6
Year	58.2	+3.8	109	− 8	43.77	+4.22	14.95	0.00	93

Evaporation Tables.

Columbia* (Weather Bureau)	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
Total evaporation	3.724	5.131	5.166	7.189	5.348	3.350	2.490	1,068	33.466
Total precipitation	5.36	4.15	3.19	2.48	6.04	10.04	2.33	1.34	34.93
Total wind movement	1,459	736	425	470	442	497	710	1,089	5,828
Mean temperature	55.8	65.8	75.7	79.8	76.4	71.8	57.5	43.7	65.8
Univ. of Missouri** (Experiment Farm)									
Total evaporation	4.815	5.873	6.512	8.625	6.767	4.987	3.829	2,130	43.538
Total precipitation	5.25	3.85	3.05	2.11	5.44	10.03	2.31	1.43	33.47
Total wind movement	2,968	1,689	1,428	1,186	1,367	1,342	1,601	1,780	13,361

*Observations taken at 6:45 a. m. **Observations taken at 5:30 p. m.

KILLING FROSTS, 1921.

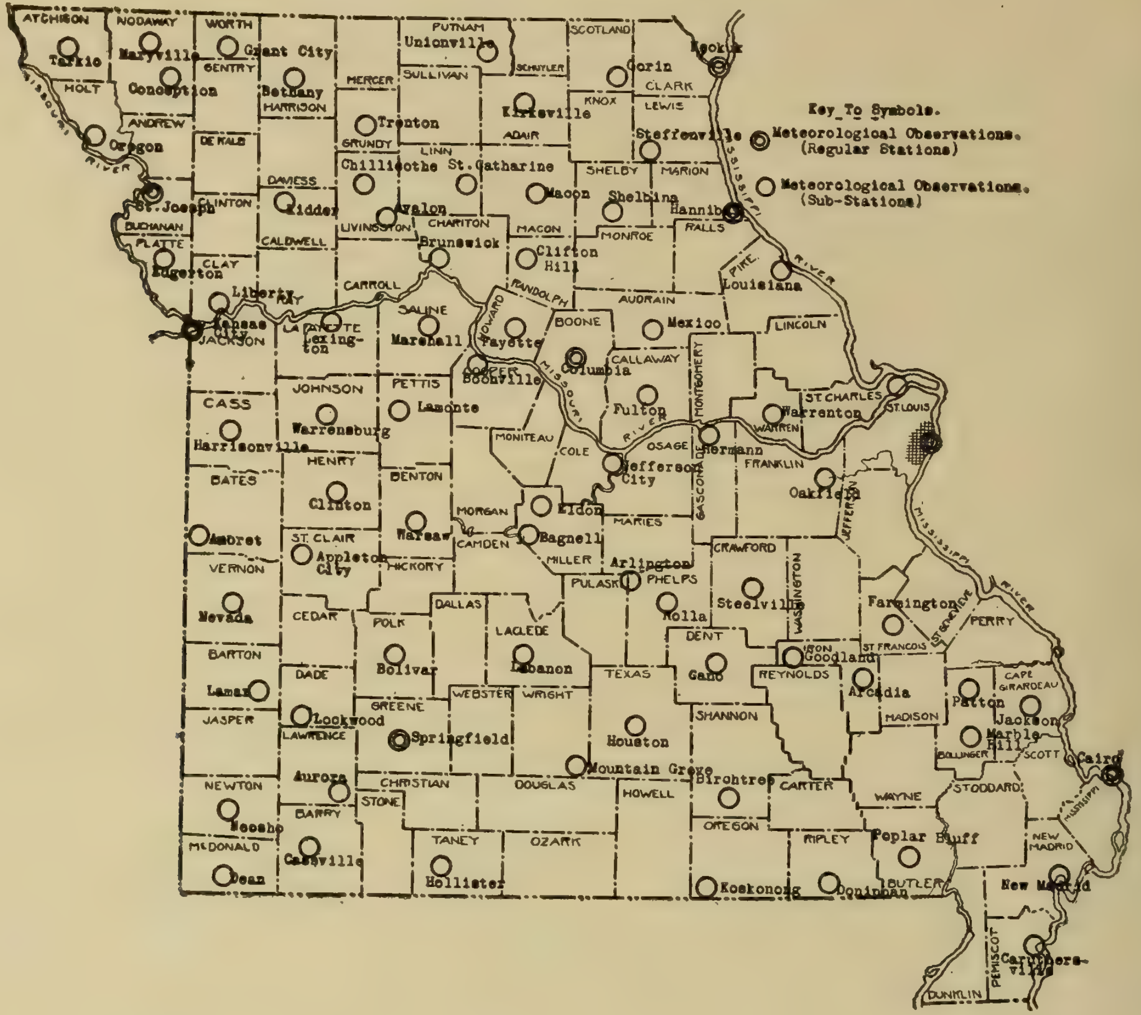
Stations.	Last in Spring.	First in Autumn.	Days in Growing Season.
Northeast Plain.			
Brunswick	April 18	Oct. 12	176
Clifton Hill	April 18	Nov. 2	197
Columbia	April 18	Nov. 2	197
Downing	April 17	Oct. 8	173
Fayette	April 18	Oct. 8	172
Fulton	April 18	Nov. 2	197
Gorin	....	....	....
Hannibal	April 18	Nov. 10	205
Jefferson City	April 18	Nov. 2	197
Kirksville	April 17	Oct. 8	173
Louisiana	April 18	Oct. 8	172
Macon	April 18	Oct. 8	172
Mexico	April 18	Oct. 12	176
Palmyra	....	Oct. 8	....
St. Catherine	April 18	Oct. 8	172
St. Charles	April 18	Nov. 10	205
St. Louis (1)	April 17	Nov. 10	206
St. Louis (2)	April 18	Nov. 10	205
Steffenville	April 18	Oct. 8	172
Unionville	April 18	Oct. 8	172
Warrenton	April 18	Nov. 2	197
Keokuk, Iowa	April 17	Oct. 8	173
Southeast Lowlands			
Caruthersville	Mar. 29	Nov. 3	218
Doniphan	April 18	Oct. 13	177
Jackson	April 18	Oct. 12	176
Marble Hill	April 18	Oct. 8	172
Poplar Bluff	April 18	Nov. 3	198
Cairo, Ill.	Mar. 29	Nov. 12	227
Ozark Plateau.			
Arcadia	April 19	Oct. 8	171
Birchtree	April 18	Oct. 8	172
Bolivar	May 3	Oct. 12	161
Dean	May 3	Oct. 8	157
Eldon	May 3	Oct. 8	157
Farmington	April 17	Nov. 10	206
Gano	April 18	Oct. 8	172
Ozark Plateau (continued)			
Goodland	April 19	Oct. 8	171
Hollister	May 3	Nov. 10	190
Houston	....	Oct. 8	....
Koshkonong	April 18	Nov. 10	205
Lebanon	May 3	Oct. 8	157
Lockwood	April 18	Nov. 10	205
Mountain Grove	April 19	Oct. 12	175
Neosho	May 5	Oct. 8	155
Rolla	April 18	Nov. 3	198
Seymour	May 3	Oct. 8	157
Springfield	April 17	Nov. 2	198
Southwest Plain.			
Amoret	May 3	Oct. 12	161
Appleton City	April 18	Nov. 10	205
Clinton	April 18	Nov. 2	197
Harrisonville	April 18	Nov. 10	205
Lamar	May 3	Oct. 8	157
Lamonte	May 3	Oct. 8	157
Marshall	April 18	Oct. 8	172
Nevada	April 18	Oct. 12	176
Warrensburg	April 16	....	....
Warsaw	May 3	Oct. 12	161
Northwest Plateau.			
Avalon	April 17	Nov. 10	206
Bethany	May 3	Oct. 4	153
Chillicothe	May 3	....	....
Conception	April 18	Oct. 8	172
Edgerton	May 3	Oct. 8	157
Kansas City	April 17	Nov. 10	206
Kidder	April 18	Nov. 11	206
Lexington	April 17	Nov. 9	205
Liberty	April 18	Oct. 8	172
Maryville	May 3	Oct. 8	157
Oregon	April 18	Oct. 8	172
St. Joseph	April 17	Oct. 12	177
Tarkio	May 3	Oct. 8	157
Trenton	April 18	Oct. 12	176

Description of Evaporation Stations.

Both stations are on University of Missouri grounds, at Columbia, Mo. The "Columbia" station is located 180 feet northwest of Switzler Hall, on the west campus with other equipment of the Weather Bureau office. The "University of Missouri" station is about one mile southeast, on the experimental farm. The "Columbia" station is shaded two hours a day and wind movement is obstructed by buildings and trees; the ground slopes 5 degrees to the north. The "University of Missouri" station is in a large open field; the ground slopes 5 degrees to the south.

The evaporation pans are cylindrical, 48 inches in diameter, 10 inches deep, and are filled to a depth of 8 inches. The "Columbia" rain gage is the 12 inch TB type, the other station has the standard 8 inch type. Both have Robinson anemometers, the cups 6 inches above the rim of the pan. Temperature records are made at the "Columbia" station only. There are no bodies of water near either station. The general topography is rolling with patches of forest trees.

OBSERVATION STATIONS


Key To Symbols.
Meteorological Observations. (Regular Stations)
Meteorological Observations. (Sub-Stations)

CO-OPERATIVE OBSERVERS.

Stations.	Name.
Amoret	Darby Fruit Farm.
Appleton City	W. G. Bigelow.
Arcadia	Arcadia College.
Avalon	F. G. Ashbaugh.
Bethany	M. H. Moulton.
Birchtree	V. H. Kirkendall.
Bolivar	Southwest Baptist College.
Boonville	C. Randecker.
Brunswick	O. K. Benecke.
Cape Girardeau	D. L. Albert.
Caruthersville	H. E. Averill.
Clifton Hill	Dr. A. J. Bradsher.
Chillicothe	Wm. J. Olenhouse.
Clinton	A. E. Derwent, M. D.
Columbia	U. S. Weather Bureau.
Conception	Fr. Adelhelm Hess.
Dean	H. E. Dean.
Doniphan	W. W. Martin.
Downing	E. E. St. Clair.
Edgerton	Fred L. Stiff.
Eldon	E. H. Shepherd.
Farmington	Robert Forsyth.
Fayette	L. W. Jacobs, jr.
Fulton	Westminster College.
Gano	A. C. Leach.
Goodland	F. M. Adams.
Gorin	J. W. Pulliam.
Grant City	B. F. Locke.
Hannibal	U. S. Weather Bureau.
Harrisonville	John H. Patterson.
Hermann	J. G. Rebsamen.
Hollister	W. P. Chapmann.
Houston	Walter T. Beard.
Jackson	John G. Putz.
Jefferson City	Miss Emma Swift.
Jerome	C. N. Huber.
Kansas City	U. S. Weather Bureau.
Kidder	Linn Terry.
Kirksville	Prof. J. S. Stokes.
Koshkonong	R. M. Hitt.
Lamar	Joe W. Springer.
Lamonte	J. E. Wheeler.
Lebanon	Leonard E. Dickerson.
Lexington	E. G. Loomis.
Liberty	James H. Harris.
Lockwood	C. S. Crow.
Louisiana	J. T. Farrell.
Macon	W. C. Brown.
Marble Hill	R. A. DeWitt.
Marshall	Prof. W. H. Black.
Maryville	J. R. Brink.
Mexico	Mrs. Abbie Snoddy.
Mountain Grove	Missouri Fruit Exp. Station.
Neosho	U. S. Fisheries Station.
Nevada	George A. Kaupp.
New Madrid	Miss Josie Smith.
Oregon	Tom Curry.
Osceola	John T. Fields.
Pacific	Mark Waters.
Palmyra	W. B. Markell.
Parma	J. E. Pearce.
Patton (near)	George F. Ellis.
Poplar Bluff	Rev. John A. Gallaher.
Rolla	Prof. Elmo G. Harris.
St. Catherine	L. D. Baker.
St. Charles	L. C. Saeger.
St. Joseph	U. S. Weather Bureau.
St. Louis(1)	U. S. Weather Bureau.
St. Louis(2)	St. Louis University.
Seligman	Floyd E. Fawver.
Seymour	Ira H Hailey.
Shelbina	S. G. Parsons.
Springfield	U. S. Weather Bureau.
Steelville	M. H. Chapman.
Steffenville	Frank Hall.
Tarkio	Albert Volker.
Trenton	W. H. Estes.
Tuscumbia	C. B. Wright.
Union	J. Wm. Keller.
Unionville	Geo. W. Davis.
Valley Park	Wm. D. Underwood.
Vanduser	M. L. Armstrong.
Warrenton	Prof. A. W. Eberling.
Warsaw	J. R. Smith, M. D.
Waverly	Miss F. N. Cauthorn.

Monthly and Annual Precipitation for the Year 1921, with Departures.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual	
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
Northeast Plain.																										
Boonville	1.89	−0.04	0.42	−2.06	3.76	+0.76	4.72	+0.78	3.94	−1.29	9.18	+3.71	1.96	−1.96	6.59	+2.86	8.88	+4.19	3.19	+0.36	1.09	−1.22	1.59	−0.32	47.21	+5.77
Brunswick	1.51	−0.26	0.60	−1.41	3 35	+0.87	4.84	+1.57	3.64	−1.29	4.59	−0.90	5.60	+0.96	7.86	+3.99	8.95	+4.62	2.94	+0.09	0.66	−1.30	1.42	−0.29	45.96	+6.65
Clifton Hill	2.31	+0.30	0.52	−1.44	3.29	+0.67	4.27	+0.93	3.28	−2.02	4.35	−1.21	2.03	−2.23	6.69	+3.85	11.06	+7.20	3.33	+1.48	0.74	−0.99	1.48	−0.11	43.35	+6.43
Columbia	1.54	−0.69	0.45	−1.68	3.37	+0.34	5.51	+1.81	4.01	−0.85	3.18	−1.20	2.69	−0.96	5.83	+2.95	10 04	+7.19	2.33	0.09	1.34	−0.97	1.41	−0.60	41.70	+5.25
Downing	1.33	−0.52	0.78	−0.67	2.89	+0.49	5.55	+1.88	3.13	−1.45	6.41	+2.08	1.17	−3.73	6.79	+3.51	8.10	+3.14	3.30	+0.94	0.48	−1.21	1.22	−0.41	41.15	+4.02
Fayette	1.63	−0.48	0.24	−1.84	3.58	+0.93	6.19	+2.86	5.78	+1.13	6.67	+1.98	4.08	+0.31	4.52	+1.44	10.28	+5.54	2.66	+0.19	1.20	−0.85	1.56	−0.17	48.39	†11.04
Fulton	1.35	−1.26	0.81	−1.29	4.52	+1.61	7.13	+3.04	3.86	−0.82	2.74	−1.97	1.67	−2.67	5.83	+2.53	10.22	+6.00	2.31	−0.19	2.16	−0.24	2.17	+0.17	44.77	+4.91
Gorin	1.41	−0.35	0.73	−0.89	4.70	+2.23	6.93	+3.11	3.74	−0.84	3.72	−0.04	1.37	−2.81	4 60	+1.56	6.12	+1.71	3.47	+1.06	0.75	−1.21	2.00	+0.15	39.54	+3.68
Hannibal	1.48	−0.72	0.40	−1.20	3.35	+0.59	4.58	+1.33	1.41	−3.59	3.52	0.00	1.78	−1.97	5.78	+2.40	8.05	+4.49	2.16	+0.52	1.50	−0.45	1.50	−0.15	35.51	+1.25
Hermann	1.37	−0.86	0.90	−1.53	5.26	+2.26	4.68	+1.15	4.26	−0.04	4.51	−0.08	2.40	−1.57	3.94	+0.73	8.75	+4.73	3.54	+0.85	2.52	−0.30	3.28	+1.44	45.41	+6.78
Jefferson City	1.48	−0.84	0.88	−1.25	4.53	+1.66	5.81	+2.22	4.32	−0.23	6.84	+2.82	0.65	−2.80	5.43	+2.37	6.60	+3.32	3.00	+0.41	1.88	−0.39	2.72	+0.87	44.14	+8.16
Kirksville	1.43	−0.21	0.70	−1.23	4.75	+2.04	5.63	+2.17	2.97	−2.32	6.19	+1.80	1.46	−3.12	5.25	+2.00	6.24	+1.81	3.48	+0.62	0.64	−1.11	1.21	−0.51	39.95	+1.94
Louisiana	1.65	−0.40	1.08	−1.39	4.14	+1.47	7.31	+2.26	4.36	−0.16	7.28	+3.23	1.67	−1.62	5.45	+1.85	8.14	+4.30	2.31	−0.19	3.75	+1.54	2.49	+0.77	49.63	†11.66
Macon	1.50	−0.36	0.68	−1.50	3.69	+1.17	5.38	+2.51	2.22	−2.65	3.64	−1.11	1.98	−1.68	6.00	+3.10	8.40	+4.32	5.28	+2.48	1.00	−0.95	2.12	+0.62	41.89	+5.95
Mexico	2.09	−0.09	0.50	−1.95	3.27	+0.60	5.86	+2.39	3.51	−1.22	4.82	−0.12	1.58	−2.43	5.77	+2.63	10.66	+6.25	2.48	+0.17	1 28	−1.12	1.61	−0.50	43.43	+4.61
Pacific	0.95	.....	0.79	.....	6.28	.....	5.34	.....	5.35	.....	5.64	.....	1.51	.....	3.23	.....	5.77	.....	1.51	.....	3.84	.....	2.84	.....	43.05	.....
Palmyra	1.66	−0.99	0.61	−1.68	....	.....	....	.....	....	....	4.15	−0.54	2.06	−1.45	5.38	+1.70	....	.....	....	....	0.91	−1.40	1.60	−0.32	.....	.....
St. Catherine	1.30	.....	0.69	.....	5.31	.....	5.03	.....	2.42	.....	8.58	.....	1.56	.....	3.90	.....	9.46	.....	2.25	.....	0.62	.....	1.36	.....	42.48	.....
St. Charles	1.12	−1.38	0.80	−2.10	6.05	+2.91	4.78	+1.26	2.08	−2.17	5.24	+1.08	1.30	−2.20	3.34	−0.10	4.40	+1.32	4.40	+1.89	4.00	+1.36	0.96	−0.96	38.47	+0.91
St. Louis(1)	1 10	−1.17	1 08	−1 67	6.14	+2.71	7.01	+3.49	4.29	+0.05	2.31	−2.16	2.05	−1.38	2.75	+0.09	5.60	+2.69	1.45	−0.96	4.43	+1.55	2.89	+0.66	41.10	+3.90
St. Louis(2)	0.95	−1.90	0.89	−1.27	6.08	+2.81	6.00	+1.54	3.96	−0.28	4.27	+0.51	1.49	−1.26	2.49	−3.12	4.65	+0.01	0.95	−2.84	4.25	+1.94	3 04	+0.94	39.02	−2.92
Shelbina	1 89	−0.01	0.60	−1.59	4.25	+1.63	5.11	+1.92	3.48	−1.68	3.00	−2.09	1.65	−2.95	6.24	+3.60	10.54	+6.90	2.10	−0.92	1.10	−1.01	1.33	−0.45	41.29	+3.35
Steffenville	2.49	+0.02	0.70	−1.35	5.04	+2.22	6.00	+2.60	3.40	−1.63	4.82	+0 65	2.65	−2.20	3.74	+0 15	5.80	+1.57	3.17	+1.09	1.32	−0.61	1.02	−0.67	40.15	+1.84
Union	1.46	.....	0.86	.....	6.94	.....	4.94	.....	4.20	.....	5.62	.....	2.44	.....	4.61	.....	6.04	....	1.22	.....	3.26	....	2.78	.....	44.37	.....
Unionville	1.11	−0.99	0.57	−1.43	3 06	+0.75	5.35	+1.86	2.80	−3.21	6.51	+2.09	2.48	−1.71	7.15	+3.17	6.76	+2.08	2.35	−0.09	T.	−1.69	2.00	+0.31	40.14	+1.14
Valley Park	0.92	.....	0.39	.....	7.01	.....	5.88	.....	4.34	.....	3.02	.....	2.31	.....	2.25	.....	6.58	.....	1.27	.....	4 52	.....	2.60	.....	41.09	.....
Warrenton	1.50	−0.96	0.85	−1.66	5.21	+1.92	5.57	+1.35	4.86	+0.23	3.27	−1.08	1.81	−2.12	5.07	+1.98	10.11	+6.15	3.33	+0 60	2.62	−0.02	3.52	+1.35	47.72	+7.74
Keokuk, Ia.	1.92	+0.23	0.48	−1.14	5.13	+2.76	3.91	+0.57	1.72	−2.53	2.53	−1.82	0 55	−3.48	5.34	+2.10	7.48	+3.51	2.56	+0.07	1.12	−0.73	2.25	+0.38	34.99	−0.08
Southeast Lowlands																										
Cape Girardeau	2.14	−1.91	2.63	+0.37	5.14	+1.95	4.16	+0.01	2.77	−1.50	3.21	−0.51	0.41	−2.49	4.87	+0.60	4.63	+2.31	0.82	−2.42	9.88	+6.54	2.34	−0.95	43.00	+2.00
Caruthersville	1.98	−2.72	5.52	+1.63	7.13	+3.28	6.07	+2.07	1.88	−2.38	2.56	−1.42	3.95	+0.54	1.79	−1.78	4.32	+1.22	0.46	−2.50	7.57	+3.72	2.30	−2.14	45.53	−0.48
Doniphan	2.80	−1.60	2.58	−0.77	6.75	+3.48	4 87	−0.77	3.21	−0.95	5.23	+0.85	2.25	−2.48	3.08	−1.23	6.85	+3.21	0.36	−2.69	6.71	+3.59	2.69	−0.64	47.38	0.00
Jackson	2.84	−0.99	1.83	−1.14	3.45	−0.72	5.55	+0.96	4.28	−0.08	5.49	+1.20	1.70	−1.82	4.73	+1.12	5.14	+1.59	0.91	−2.31	9.45	+6.32	3.74	+0.54	49.11	+4.67
Marble Hill	3.54	−0 13	1.65	−1.68	5.38	+1.18	7.11	+2.60	3.69	−0.54	6 28	+2.11	1.50	−3.18	10.04	+6.54	6.23	+2.60	1.41	−1.24	8.72	+5.55	3.46	+0.13	59.01	†13.94
New Madrid	2.77	−2.56	3.85	−0.11	7.77	+2.61	6.65	+2.28	2.42	−2.17	5.09	+0.88	3.70	−0.21	3.70	−0.18	7.31	+4.00	0.81	−2.44	11.73	+7.88	2.60	−1.76	58.40	+8.22
Parma	1.87	.....	3.43	.. ..	6.80	.....	4.86	.....	2.92	.....	3.92	.....	1.53	. . .	3.46	.....	4.20	.....	0.48	.....	10.11	.....	2.90	.....	46.48	.....
Patton	2.15	−1.10	1.62	−0.43	6.23	+2.60	7.46	+3.77	6.12	+1.34	9.48	+5 81	1.58	−2.16	5.22	+0.68	4.61	+1.40	1.25	−1.92	10.00	+7.77	1.25	−1.77	56.97	†15.99
Poplar Bluff	1.58	−2.47	0.94	−2.23	....	.....	6.29	+1.59	2.56	−2.47	3.10	−1.92	0.83	−2.72	3.27	−1.00	2.77	−0.81	0.96	−2.24	7.46	+5.20	1.89	−2.29	....	.....
Vanduser	2.04	.....	2.71	....	5.48	.....	6.53	.....	3.12	.....	5.50	.....	2.44	.....	3.52	. ..	6 28	.....	0.84	.....	8.04	.....	2 73	....	49.23	.....
Cairo, Ill.	2.27	−1.55	3.72	+0.39	4 26	+0.24	3.67	+0.10	1.68	−2.15	1.83	−2.48	0.98	−2.47	4.29	+1.36	4.80	+2.33	0.82	−1.81	11.18	+7.16	3.02	−0.31	42.52	+0.81
Ozark Plateau																										
Arcadia	2.57	−0.70	1.12	−2.13	6.20	+2.18	8.42	+3.71	3.71	−1.07	4.30	−0.28	5.17	+0.93	5.94	+2.22	4.89	+1.25	1.81	−1.26	8.16	+4.54	3.14	+0.16	55.43	+9.55
Birchtree	4.06	+0.93	2.03	−0.56	8.00	+3.77	7.20	+2.40	1.97	−2.34	5.41	+0.88	2.12	−1.87	7.15	+2.76	4.20	+0.61	1.78	−0.80	8.62	+5.73	2.64	+0.07	55.18	†11.58
Bolivar	2.23	+0.29	0.56	−1.78	7.49	+4.43	3.87	−0.11	2.93	−2.49	6.45	+1.43	1.36	−2.39	6.14	+2.46	6.17	+2.07	3.55	+0.24	1.40	−1.13	1.96	−0.44	44.11	+2.58
Dean	2.12	−0.18	1.29	−0.61	11.23	+7.82	6.01	+1.84	1.28	−3.68	10.32	+5.05	1.12	−2.93	4.60	+0.33	2.82	−0.80	1.21	−2.28	1.42	−1.62	2.45	+0.33	45.87	+3.27
Eldon	1.53	−0.12	1.06	−1.17	4.38	+1.47	6.04	+1.51	4.08	−0.78	6.47	+2.16	1.45	−2.21	7.16	+3.18	7.86	+4.06	3.07	+0.04	1.83	−0.38	1.42	−0.74	46.35	+7.02
Farmington	2.30	−0.12	1.21	−2.23	5.76	+2.55	7.26	+3.17	6.06	+0 56	3.43	−1.20	2.27	−1.28	3 42	+0.04	6.01	+2.82	1.63	−1.26	6.74	+2.78	2.63	−0.08	48 75	+5.75
Gano	2.31	−0.72	0.79	−1.66	7.61	+4.34	5.72	+0.90	3.56	−0.98	5.10	+0.80	2.93	−0.57	5 97	+1.56	6.05	+1.79	2.75	−1.13	4.71	+2.40	3.20	+1.19	50.70	+7.92
Goodland	2.52	−0.50	1.02	−1.59	5.09	+0.89	8.00	+2.72	5.13	+0.51	5.84	+1.74	3.51	−0.67	3.72	−0.31	10.83	+7.10	1.98	−1.24	6.18	+3.29	2.48	0.00	56.30	†11.94
Hollister	2.02	−0.74	2.74	+0.51	7.83	+4.74	7.35	+3.03	1.45	−2 78	7.85	+3.84	0.65	−3.27	....	.....	0.95	−2.76	0.80	−2.03	4.20	+1.42	1.80	−0.47	.....	....
Houston	2.80	+0.17	1.35	−0.96	5.92	+1.77	5.48	+0.84	3.27	−0.82	6 36	+1.70	3.74	−0.32	3.17	−0.59	7.66	+3.55	2.82	+0.08	4.82	+2.36	2.37	+0.15	49.76	+7.93
Jerome	....	.....	....	.....	....	.....	5.35	+1.47	3.05	−1.41	9.60	+6.07	2.05	−1.18	8.38	+4.14	7.92	+4.54	3.01	+1.14	2.24	−0.24	1.82	+0.33	.....	.....
Koshkonong	1.97	−1.67	2.40	−0.49	8.58	+4.99	7.84	+2.71	1.94	−2.90	3.64	−0.84	2.69	−1.23	5.11	+0.66	4.02	+0.53	1.73	−1.18	8.39	+5.37	1.90	−1.26	50 21	+4.69
Lebanon	3.86	+1.30	0.60	−1.93	5.93	+2.46	6.13	+1.84	5.17	−0.44	9.52	+4.59	4.14	+0 02	4.33	+0.80	8.96	+4.87	3.32	+0.06	1.04	−1.50	2.43	−0.17	55.43	†11.90
Lockwood	1.93	+0.19	0.55	−1.51	6.42	+4.06	5.16	+1.50	4.23	−0.85	8.03	+3.23	0 80	−4.07	7.68	+3.51	8.84	+4.84	2.10	−1.35	1.56	−0.65	2.20	+0.26	49.50	+9.16
Mountain Grove	2.30	−0.70	1.55	−0.81	6.59	+2.29	7.42	+2.38	1.66	−3.19	10.07	+5.51	1.78	−2.22	4.01	−0.39	3.43	−0.61	2.40	−0.65	5.70	+3.27	2.55	+0.32	49.46	+5.20
Neosho	2.04	−0.53	1.11	−1.33	6.34	+2.88	4.74	+0.51	1.78	−4.29	7.38	+1.95	2.29	−1.89	4.70	+0.61	2.70	−1.52	0.66	−2.73	1.18	−1.88	2.48	−0.06	37.40	−8.28
Rolla	1.66	−0.88	0.59	−1.78	6 63	+3.09	6.77	+1.99	3.55	−1.46	9.04	+4.91	1.68	−2.41	7.00	+2.92	6.80	+2.96	2.79	−0.16	2 55	+0.24	2.78	+0.71	51.84	†10.13
Seligman	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	2 26	−0.10	1.92	−0.65	.....	.....
Seymour	1.60	−1.10	0.77	−1.68	7.28	+3.22	5.16	+1.20	2.34	−3.36	10.45	+5.82	0.43	−4.32	4.07	+0.23	2.93	−1.65	2.31	−0.70	3.69	+1.36	2.01	−0.04	43.04	−1.02
Springfield	1.36	−1.30	0.85	−1.42	7.35	+3.28	4.79	+0.93	4.06	−1.49	9.68	+4.49	0.70	−4.09	7.59	+3.28	3.90	+0.14	2.55	−0.25	2.46	−0.18	1.92	−0.75	47.21	+2.64
Steelville	1.67	−0.22	0.91	−1.45	7.27	+5.29	5.71	+1.13	3.19	−1.15	3.72	−0.43	2.42	−0.78	6.41	+2.90	5.11	+1.91	2.45	−0.76	4.57	+1 89	2.95	+1.04	46.38	+9.37
Tuscumbia	1.34	.....	0.69	.....	6.31	.....	5.10	.....	6.19	....	7.20	.....	1.60	.....	3.86	.....	9.49	.....	3.60	.....	1.85	.....	2.40	.....	49.63	.....
Southwest Plain																										
Amoret	1.81	+0.44	0.16	−2.17	4.42	+1.93	4.61	+0.46	4.41	−0.41	6.56	+2.70	4.72	+0.76	9.20	+5.19	9.19	+5.29	1.18	−1.34	0.50	−1.16	0.99	−0.60	47.75	†11.09
Appleton City	2.64	+0.72	0.03	−2.00	4.02	+1.01	5.09	+0.82	4.29	−1.25	7.86	+2.87	4.93	+0.30	6.19	+2.45	10.30	+6.63	2.11	−0.23	0.95	−1.18	1.72	+0.08	50.13	†10.22
Clinton	2.20	+0.16	0.25	−1.90	6.20	+3.39	5.73	+1.69	4.09	−1.35	6.60	+1.87	1.65	−2.29	6.52	+3.16	6.76	+2.94	1.95	−0.86	1.00	−0.88	2.88	+1.15	45.83	+7.08
Harrisonville	1.47	−0.18	0.36	−1.73	3.00	+0.37	4 65	+1.25	3.60	−1.21	7.47	+3.01	3.51	−0.27	6.90	+2.75	11.87	+7.51	2.06	−0.53	0.33	−1.62	1.29	−0.49	46.51	+8.86
Lamar	3.28	+1.55	0.17	−2.13	3.52	+0.64	5.53	+1.38	2.44	−3.02	6.22	+1.26	1.19	−3.05	3.23	−0.95	7.36	+3.12	1.68	−1.45	1 26	0.98	2.05	+0.10	37.93	−3.53
Lamonte	1.98	+0.11	....	.....	....	.....	3.94	+0.18	5.41	+0.46	7.27	+2.78	3.86	−0.11	10.86	+7.14	7.54	+3.04	2.55	+0.22	1.00	−0.90	2.40	+0.74	.....	.....
Marshall	1.86	−0.05	0.42	−1.46	1 71	−0.95	4.21	+0.51	4.35	−0.51	6 27	+1.95	3.46	−0.50	5.17	+1.51	11.58	+6.70	2.08	+0.50	1.30	−0.78	1.95	+0.29	44.36	+7.21
Nevada	2.08	+0.01	0.25	−1.84	3.23	+0.27	5.69	+1.97	4 95	−0.77	10.30	+5 19	4.69	+0.76	4.66	+1.15	6.46	+2.30	1.48	−1.60	1 02	−0.86	1.47	0.39	46.28	+6.19
Osceola	1.91	−0.57	0.25	−1.71	4.02	+1.03	4.48	+0.41	4.18	−1.77	7.43	+2.68	5.11	+1.07	8 98	+5.36	9.82	+5.31	2.14	−0.69	1.25	−1.53	1.19	−1.03	50.76	+8.56
Warrensburg	2.52	+0.70	0.44	−1.65	3.10	+0.52	4.61	+1.39	3.33	−1.33	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	.....	.....
Warsaw	2.62	+0.13	0.55	−2.04	5.38	+2.24	6.35	+2.16	6.12	+0.89	11.39	+6.22	3.60	−0.70	8.86	+4.57	8.87	+4.55	3.02	−0.29	1.48	−0.93	3.09	+0.77	61.33	†17.57
Waverly	2.60	.....	0.56	.....	3.26	.....	3.23	....	4.54	. ..	7.11	....	3.20	.....	7.10	.....	10.79	.....	2.83	.....	0.63	.....	1.65	.....	47.50	.....
Northwest Plateau																										
Avalon	1.93	−0.06	0 80	−1.37	3.70	+0.82	4.85	+1.64	5.17	−0.04	5.51	+0.95	3 40	−0.77	4.50	+0.97	14.95	†10.00	3.55	+0.37	1 00	−0.93	1.25	−0.27	50.61	†11.31
Bethany	1.25	−0.20	0.17	−1.39	1.73	−0.46	3.67	+0.71	2.82	−2.30	2.64	−1.60	2.24	−2.27	3.65	−0.34	5.02	+1.24	1.67	−0.54	T.	−1.59	0.95	−0.55	25.81	−9.29
Chillicothe	1.23	−0.85	0.36	−2.17	....	.....	....	.....	3.19	−2.31	3.09	−2.82	2.77	−2.38	6.03	+1.18	8.54	+2.06	....	.....	....	.....	....	.....	....	.....
Conception	0.86	−0.19	0.13	−1.13	1.01	−0.69	1.86	−0.85	3.76	−0.94	2.54	−1.91	2.06	−2.29	1.89	−1.78	4.74	+0.97	2.47	0.00	T.	−1.28	0.16	−0.91	21.48	*11.00
Edgerton	1.39	−0.09	0.31	−1.39	3.42	+1.00	4.29	+0.77	5.24	−0.72	8.02	+2.44	3.04	−1.93	6.93	+3.17	8.04	+5.47	1.59	−0.88	0.01	−1.24	0.29	−1.49	42.57	+5.11
Grant City	1.43	+0.41	....	.....	1.62	−0.33	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	....	.....	.....	.....
Kansas City	1.48	+0.35	0.32	−1.27	3 60	+0.78	2.71	−0.58	7.54	+2.43	9.67	+5.01	1.87	−2.97	6.23	+1.48	5.02	+1.26	1.86	−0.35	0.07	−1.78	0.50	−0.86	40.87	+3.50
Kidder	0.51	−0.92	0.70	−0.93	2.96	+0.73	2.90	+0.11	3.75	−1.80	3.64	−0.75	2.14	−1.97	4 71	+0.87	12.17	+8.14	1.85	−0.91	0.00	−1.70	0.41	−1.01	35.74	−0.14
Lexington	2.43	+0.81	0.41	−1.62	2.39	+0.12	4.24	+0.92	3.61	−1.45	3.45	−1.32	2.50	−2.22	9.36	+6.13	6.42	+1.98	2.14	−0.43	0.30	−1.55	1.62	−0.10	38.87	+1.27
Liberty	1.63	+0 24	0.34	−1.60	4.70	+2.15	3.32	+0.22	5.58	+0.43	6.05	+1.14	1.91	−2.69	9.47	+5.72	8.55	+4.26	2.29	−0.21	0.07	−1.63	0.13	−1.36	44.04	+6.67
Maryville	0.83	−0.36	0.50	−1.00	0.91	−0.98	3.03	+0.33	5.56	−0.37	3.03	−1.51	1.64	−4.07	3.77	−0.29	5.79	+1.55	1.80	−1.03	0.03	−1.45	0.17	−0.99	27.06	*10.17
Oregon	0.87	−0.61	0.53	−1.17	0.65	−1.38	2.48	−0.77	4.76	−0.14	5.19	+0 45	4.79	+0.41	3.34	−0.75	6.79	+3.11	2.84	+0.25	T.	−1.68	0.14	−1.37	32.38	−3.65
St. Joseph	0.72	−0.39	0.39	−0.95	1.27	−0.74	3.21	+0.34	4.71	+0.37	4.37	−0.31	2.66	−1.22	4.84	+1.18	7.31	+3.96	2.89	+0.29	0.03	−1.72	0.38	−0.73	32.78	+0.08
Tarkio	0.72	−0.14	0.02	−1.04	1.19	−0.53	3.60	+0.64	5.20	+0.39	....	.....	3.43	−0.41	2.92	−1.22	5.78	+2.27	4.32	+1.81	T.	−1.30	0.17	−0.82	.....	.....
Trenton	1.38	−0.18	0.47	−1.21	3.31	+1.07	6.73	+3.87	2.90	−2.57	4.99	+1.00	2.10	−1.88	4.02	+0.42	7.13	+2.90	2.09	−0.43	0.14	−1.52	0.88	−0.66	36.14	+0.81

† Indicates plus. * Indicates minus.

Monthly and Annual Mean Temperatures for the Year 1921, with Departures.

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Northeast Plain.																										
Brunswick	35.6	+ 8.8	38.4	+ 9.9	50.6	+ 9.5	56.2	+ 1.8	66.8	+ 2.4	78.0	+ 5.2	81.4	+ 6.2	76.8	+ 3.4	73.6	+ 7.5	57.1	+ 2.3	42.4	+ 1.2	33.6	+ 3.0	57.5	+ 5.1
Clifton Hill	36.0	+ 7.1	39.9	+12.6	51.9	+10.3	55.7	+ 2.1	67.3	+ 3.1	77.0	+ 4.7	81.3	+ 5.3	78.0	+ 2.1	72.9	+ 4.3	59.2	+ 2.3	45.8	+ 2.1	36.2	+ 5.5	58.4	+ 5.1
Columbia	36.8	+ 9.6	40.2	+10.1	52.0	+10.6	55.8	+ 1.5	65.8	+ 1.3	75.7	+ 1.2	79.8	+ 2.4	76.4	+ 1.7	71.8	+ 4.0	57.5	+ 2.7	43.7	+ 1.3	35.5	+ 2.6	57.6	+ 4.0
Downing	34.0	......	37.4	......	49.1	......	54.8	......	65.6	......	75.7	......	79.8	......	75.4	......	70.4	......	57.0	......	39.2	......	....	......	....	......
Fayette	33.4	+ 6.0	38.9	+ 8.9	49.0	+ 7.3	54.4	− 0.5	64.2ᵃ	− 0.3	73.0ᵃ	− 0.2	77.3	− 0.1	73.4	− 2.8	69.0	+ 0.6	54.0	− 2.8	38.3	− 4.3	30.2	− 1.3	54.6	+ 0.9
Fulton	37.0	+ 7.1	40.4	+ 8.2	52.4	+ 8.6	55.9	+ 1.5	65.4	+ 0.3	76.2	+ 3.0	80.9	+ 3.0	77.7	+ 1.4	73.4	+ 4.6	57.0	− 0.6	44.4	− 0.1	36.1	+ 2.4	58.1	+ 3.3
Hannibal	35.6	+ 8.9	38.9	+ 9.8	50.8	+ 9.2	55.8	+ 2.2	66.6	+ 2.2	77.5	+ 4.2	80.7	+ 3.3	75.9	+ 0.9	72.0	+ 4.1	57.9	+ 2.0	42.6	+ 2.1	35.0	+ 3.7	57.4	+ 4.4
Jefferson City	37.4	+ 7.6	39.8	+ 9.0	51.8	+ 8.7	55.4	− 1.0	65.8	+ 0.9	76.4	+ 2.4	80.6	+ 2.5	76.7	0.0	73.2	+ 4.1	57.4	+ 0.7	45.0	+ 0.9	35.4	+ 2.6	57.9	+ 3.2
Kirksville	32.3	+ 7.4	36.4	+11.5	48.5	+ 9.9	54.2	+ 2.3	64.0	+ 1.6	75.6ᵇ	+ 3.7	79.6	+ 3.5	75.4	+ 1.6	70.4	+ 4.4	56.8	+ 2.8	39.6	− 0.7	33.0ᵇ	+ 3.6	55.5	+ 4.3
Louisiana	37.2	+ 9.3	40.4ᵃ	+12.0	53.1	+10.8	55.9	+ 2.2	66.0	+ 2.1	76.8	+ 5.1	79.8	+ 3.8	77.3	+ 2.6	73.4	+ 5.5	58.6	+ 2.5	46.0	+ 1.9	37.6	+ 6.6	58.5	+ 5.4
Macon	34.0	+ 5.3	37.6	+ 9.5	48.6	+ 6.4	55.2	+ 1.3	66.8	+ 2.7	77.5	+ 5.1	81.1	+ 3.7	75.8	− 0.9	70.6	+ 2.2	54.8	− 2.5	39.8	− 4.4	31.5	+ 1.0	56.1	+ 2.4
Mexico	35.9ᵃ	+ 7.3	39.0	+10.3	49.5	+ 8.2	55.5	+ 1.2	66.2	+ 1.7	76.7	+ 3.1	81.4	+ 4.1	76.7	+ 0.6	71.6	+ 2.8	56.2	− 0.3	41.6	− 1.5	33.6	+ 1.4	57.0	+ 3.2
Palmyra	33.3	+ 4.9	37.0	+10.2	....	......	....	......	....	......	76.4	+ 2.0	81.5	+ 2.4	75.6	− 1.1	73.0ᵇ	+ 4.4	56.9ʰ	− 0.5	39.2	− 3.9	33.2	+ 3.0	....	......
St. Catherine	33.9	+ 7.6	37.0	......	48.9	......	53.4	......	65.0	......	74.4	......	78.6	......	74.8	......	70.0	......	56.6	......	40.3	......	33.0	......	55.5	....
St. Charles	38.8	+ 7.6	42.8	+11.1	54.4	+10.9	58.2	+ 2.6	66.9	+ 4.5	77.8	+ 3.8	81.1ᵃ	− 3.4	77.0	+ 0.5	75.2	+ 8.0	59.0	+ 1.1	46.5	+ 1.2	37.2	+ 2.2	59.6	+ 4.2
St. Louis(1)	39.2	+ 8.4	42.1	+ 7.6	54.0	+10.2	58.1	+ 2.3	68.5	+ 1.6	78.4	+ 3.6	83.2	+ 4.6	77.5	+ 0.2	74.4	+ 4.3	59.6	+ 1.2	47.3	+ 2.2	38.6	+ 3.8	60.1	+ 4.2
St. Louis(2)	38.5	+ 9.0	41.2	+ 9.8	53.2	+10.4	57.0	+ 1.4	67.6	+ 1.5	77.8	+ 2.9	82.2	+ 2.1	77.0	− 0.2	73.9	+ 3.7	58.1	− 0.8	46.4	− 0.1	37.8	+ 3.5	59.2	+ 3.6
Steffenville	33.8	+ 5.4	39.2	+11.9	51.4	+10.0	56.0	+ 2.8	66.6	+ 2.3	77.8	+ 5.0	83.6	+ 6.4	78.6	+ 2.1	73.5	+ 4.8	59.0	+ 1.8	42.0	− 1.8	35.5	+ 5.1	58.1	+ 4.6
Unionville	31.9	+ 8.6	35.4	+11.1	47.2	+ 9.8	53.6	+ 2.5	65.1	+ 2.5	75.4	+ 3.4	78.6	+ 1.9	74.2	− 1.1	69.4	+ 2.1	57.1	+ 1.7	39.1	− 0.9	33.1	+ 5.7	55.0	+ 3.9
Warrenton	36.1	+ 6.9	39.6	+10.2	51.8	+10.3	56.4	+ 1.6	66.2ᵃ	+ 1.1	77.0	+ 3.6	81.6	+ 4.0	76.6	+ 0.2	72.6	+ 3.8	56.2	+ 0.8	43.0	+ 0.1	34.2	+ 2.1	57.6	+ 3.7
Keokuk, Ia	33.9	+10.2	36.7	+10.1	48.4	+10.5	54.7	+ 2.7	66.6	+ 3.4	77.5	+ 5.0	81.8	+ 4.8	75.1	+ 0.5	71.2	+ 4.8	56.6	+ 2.1	40.3	+ 0.9	33.0	+ 3.6	56.3	+ 4.9
Southeast Lowlands.																										
Caruthersville	45.6	+ 6.7	47.4	+ 8.9	61.8	+10.7	63.6	+ 3.5	73.8	+ 4.3	84.8	+ 7.0	87.9	+ 7.3	84.7	+ 5.0	83.6	+10.2	65.0	+ 3.3	55.2	+ 5.3	46.4	+ 6.4	66.6	+ 6.6
Doniphan	41.6	+ 5.4	44.4	+ 6.5	57.0	+ 7.4	58.8	+ 0.8	67.6	+ 0.7	78.8	+ 4.0	82.2	+ 4.0	79.4	+ 2.0	76.8	+ 6.0	57.0	− 1.4	50.5	+ 2.9	41.6	+ 4.2	61.3	+ 3.5
Jackson	40.4	+ 6.5	42.4	+ 7.2	55.8	+ 8.6	56.8	− 0.1	66.6	+ 0.8	78.2	+ 4.1	81.2	+ 3.8	74.0	− 2.2	....		58.2	+ 0.2	49.5	+ 2.8	40.3	+ 3.7	....	....
Marble Hill	41.2	+ 6.7	43.0	+ 7.9	56.7	+ 9.4	58.3	+ 1.8	66.8	+ 1.1	77.8	+ 3.9	81.4	+ 4.1	77.6	+ 0.6	76.3	+ 5.9	57.2	− 0.8	51.2	+ 6.8	42.0	+ 5.8	60.8	+ 4.4
Poplar Bluff	....	......	....	......	....	......	61.8	+ 2.5	68.9	+ 0.9	78.8	+ 3.4	83.8	+ 5.1	79.3	+ 1.3	77.8	+ 6.5	58.8	− 1.5	52.0	+ 4.6	44.5	+ 7.7	....	......
Cairo, Ill	41.6	+ 6.8	42.7	+ 5.1	57.2	+10.2	59.0	+ 0.7	68.6	+ 1.1	79.2	+ 4.0	83.0	+ 4.4	77.6	+ 0.6	76.4	+ 6.2	59.2	+ 0.1	51.2	+ 4.3	42.3	+ 3.8	61.5	+ 3.9
Ozark Plateau																										
Arcadia	37.6	+ 5.5	42.0	+ 8.5	52.6	+ 7.8	56.6	+ 1.2	64.5	− 0.1	75.0	+ 3.0	78.4	+ 2.5	74.4	− 0.1	73.4	+ 5.8	55.4	− 0.7	45.5ᵈ	+ 1.5	38.0	+ 3.7	57.8	+ 3.2
Birchtree	40.3	+ 5.9	42.9ᵃ	+ 8.3	55.2	+ 7.7	56.4	− 0.5	65.6ᵃ	+ 0.4	75.3	+ 2.6	79.4	+ 3.0	76.2ᵃ	+ 0.3	74.5ᵃ	+ 5.0	56.8	− 1.4	50.6	+ 4.1	41.2ᵃ	+ 5.4	59.5	+ 3.4
Bolivar	40.4	+ 6.5	43.3	+ 9.2	54.2	+ 8.2	57.0ᵈ	+ 0.9	67.0ᵉ	+ 2.1	69.8	− 3.0	74.8	− 2.3	77.5	+ 0.5	74.0	+ 4.4	57.6	− 0.9	47.8	+ 1.0	39.2	+ 3.4	58.6	+ 2.5
Dean	42.3ᵇ	+ 5.9	42.8ᵈ	+ 8.4	54.6	+ 5.6	56.2	− 1.1	66.1	+ 0.3	74.7	+ 1.7	78.4ᵉ	+ 0.8	78.4	+ 0.9	75.6	+ 4.9	58.9	− 1.1	50.6	+ 0.9	39.7	+ 2.3	59.9	+ 2.5
Eldon	38.4	+ 6.9	40.9	+ 9.2	51.4	+ 8.0	55.4	− 0.3	66.2ᶜ	+ 1.7	76.7	+ 3.5	80.4	+ 3.4	75.0	− 1.4	71.3	+ 2.0	55.4	− 2.3	43.6	− 1.6	36.8	+ 2.5	57.6	+ 2.6
Farmington	38.4	+ 5.9	41.2	+ 5.6	53.4	+ 6.5	55.6	− 1.7	64.4	+ 0.6	76.0	+ 3.4	79.2	+ 3.9	76.4	+ 1.6	75.0	+ 5.7	57.0	+ 0.6	48.2	+ 3.9	38.8	+ 1.8	58.6	+ 3.2
Gano	38.5	+ 4.5	41.4	+ 7.0	53.4	+ 6.4	55.4	− 0.4	63.7	− 1.6	74.2	+ 1.4	78.2	+ 1.3	74.3ᵇ	− 1.8	71.4	+ 1.9	56.8	− 1.2	47.2	+ 0.4	37.9	+ 2.7	57.7	+ 1.7
Goodland	39.3	+ 6.8	42.8	+10.2	55.2	+10.3	56.2	+ 1.6	63.8	− 0.7	77.2	+ 5.1	78.0	− 2.4	75.0	+ 0.5	73.8	+ 6.5	54.9	− 0.9	48.0	+ 3.4	38.6	+ 4.2	58.6	+ 3.7
Hollister	42.9	+ 6.9	42.3ᵈ	+ 4.3	52.2	+ 3.6	55.8	− 4.0	74.3	+ 7.0	80.5	+ 4.8	....	......	....	......	....	......	....	......	54.6ᶠ	+ 6.4	45.2	+ 5.5	....	......
Houston	....	......	....	......	....	......	....	......	60.6	− 4.3	75.3	+ 3.0	78.4	+ 2.3	76.7	− 0.3	74.6	+ 6.0	55.4	− 1.8	49.1	+ 2.6	40.6	+ 4.7	....	......
Koshkonong	42.8	+ 6.4	45.2	+ 8.0	57.1	+ 7.5	58.3ᵃ	+ 0.5	68.0ʰ	+ 1.2	77.8	+ 3.5	82.4	+ 4.1	78.6	+ 0.9	77.1	+ 6.2	59.3	− 0.7	52.0	+ 2.6	43.8	+ 6.2	61.9	+ 3.9
Lebanon	37.6	+ 4.5	39.7	+ 5.9	52.4	+ 6.9	54.5	− 1.4	64.7	− 0.9	75.0	+ 1.9	79.4	+ 2.5	75.5	− 0.8	73.9	+ 4.4	56.6	− 1.4	54.4ᵃ	+ 8.4	37.2	+ 2.2	58.4	+ 2.7
Lockwood	39.8	+ 6.7	41.4	+ 9.3	54.6	+ 6.8	56.4	+ 0.2	65.2	+ 0.6	75.6	+ 1.6	80.3	+ 2.7	78.0	+ 0.8	75.0	+ 3.7	60.1ᵃ	+ 1.5	48.6ᵃ	+ 0.9	39.0	+ 3.5	59.8	+ 3.2
Mountain Grove	38.2	+ 5.0	42.4ᵃ	+ 8.7	51.6	+ 5.4	53.6	− 0.8	64.9	+ 1.0	74.8	+ 3.2	78.5	+ 2.5	76.6	+ 1.5	75.0	+ 6.6	57.6	0.0	47.8	+ 1.2	38.4	+ 4.1	58.3	+ 3.2
Neosho	41.1	+ 6.0	42.8	+ 6.4	54.6	+ 6.5	57.0	− 1.0	66.8	+ 0.6	75.7	+ 1.8	78.6	+ 1.0	78.7	+ 1.8	76.5	+ 6.2	59.8	+ 0.6	50.1	+ 2.9	40.8	+ 4.1	60.2	+ 3.1
Rolla	40.3	+ 9.3	43.7	+ 8.8	55.8	+11.1	57.6	+ 2.6	65.6	+ 1.1	76.4	+ 3.6	80.4	+ 3.0	76.9	+ 1.1	74.3	+ 6.3	58.0	+ 2.1	46.8	+ 1.9	37.2	+ 3.6	59.4	+ 4.5
Seligman	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	52.4ᶜ	+ 5.2	42.7	+ 6.1	....	......
Seymour	40.0	+ 5.7	42.4	+10.0	53.5	+ 8.3	54.6	− 0.8	66.0	+ 1.9	75.5	+ 3.5	78.0	+ 2.5	77.6	+ 2.6	74.8	+ 6.2	59.6	+ 2.1	49.4	+ 3.3	40.0	+ 5.6	59.3	+ 4.2
Springfield	39.8	+ 8.5	42.4	+ 8.8	52.8	+ 9.3	55.6	− 0.1	65.5	+ 0.8	74.2	+ 1.9	79.2	+ 2.8	77.0	+ 2.2	74.3	+ 6.4	58.8	+ 1.5	48.4	+ 4.0	38.4	+ 2.9	58.9	+ 4.1
Southwest Plain.																										
Amoret	37.0	+ 6.8	40.8	+ 7.3	51.2	+ 7.8	55.2	+ 0.4	65.4	+ 1.9	74.9	+ 1.4	78.5	+ 0.9	75.7	− 0.7	72.8	+ 4.1	58.5	+ 1.4	45.5	0.0	36.0	+ 3.5	57.6	+ 2.9
Appleton City	38.5	+ 7.3	42.2	+10.3	52.8	+ 8.4	56.0	+ 0.1	66.5	+ 1.4	76.2	+ 1.4	80.2ᶜ	+ 1.9	77.3ᵃ	− 0.5	74.4	+ 4.1	59.6	+ 0.5	47.0	+ 0.9	38.4	+ 4.1	59.1	+ 3.3
Clinton	38.5	+ 7.2	43.2	+11.6	53.2	+ 9.2	55.8ᵃ	0.0	67.6	+ 2.4	77.6	+ 4.2	81.2ᵈ	+ 3.7	78.8	+ 2.0	76.7ᵈ	+ 6.5	61.9	+ 3.3	47.4	+ 0.1	38.1	+ 3.7	60.0	+ 4.5
Harrisonville	35.8	+ 8.7	38.6ᵃ	+ 9.1	49.0ᵇ	+ 8.2	54.6	+ 0.6	65.8	+ 1.8	75.4	+ 2.0	79.4	+ 1.6	75.8	0.0	72.7	+ 4.4	57.6	+ 1.6	43.9	+ 1.5	33.6	+ 2.4	56.8	+ 3.5
Lamar	39.1	+ 6.8	41.8	+ 7.5	53.2	+ 7.1	55.4	− 1.3	66.3	− 0.4	76.8	+ 2.4	80.6	+ 2.1	79.0	+ 1.5	77.2	+ 6.6	59.8	+ 0.9	46.8	+ 0.2	37.6	+ 2.4	59.5	+ 3.0
Lamonte	35.2	+ 6.7	40.0	+ 8.8	....	......	56.1	+ 0.6	66.8	+ 2.1	77.2	+ 2.9	80.5	+ 1.0	78.0	+ 1.3	74.4	+ 4.3	59.6	+ 1.6	45.8	+ 1.4	35.8	+ 1.6	....	......
Marshall	36.4ᵃ	+ 9.0	39.4ᵃ	+10.2	52.6ᵃ	+10.4	55.6ᵃ	+ 1.1	66.8ᶜ	+ 2.7	76.3ᵃ	+ 2.4	80.4	+ 3.1	76.5	+ 0.9	72.2ᵃ	+ 3.9	57.4ᵃ	+ 0.8	43.6	− 2.0	34.0	+ 2.4	57.6	+ 3.7
Nevada	39.6	+ 8.1	42.5	+10.9	53.2	+ 9.2	56.2	+ 1.1	66.6	+ 2.0	75.2	+ 1.6	79.0	− 1.2	77.0	+ 0.1	74.6	+ 5.5	59.2	+ 1.9	46.8	+ 2.4	38.8	+ 4.9	59.1	+ 3.9
Warrensburg	36.5ᵉ	+ 7.8	39.7	+ 8.6	51.4ᵃ	+ 7.9	56.6ᵃ	+ 0.5	68.0ᵉ	+ 2.7	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......
Warsaw	39.8	+ 7.0	42.9	+ 9.5	54.8	+ 7.9	57.4	+ 1.4	67.0	+ 1.2	76.5	+ 2.8	79.9	+ 1.6	78.3	+ 0.9	75.2	+ 5.2	59.4	+ 0.3	46.8	− 0.7	40.0	+ 5.2	59.8	+ 3.5
Northwest Plateau.																										
Avalon	35.2	+ 6.6	38.1	+ 9.3	49.5	+ 8.2	55.7	+ 2.0	66.4	+ 3.2	76.6	+ 3.5	80.3	+ 1.4	75.0	− 1.6	71.6	+ 2.0	58.4	− 0.1	43.8	0.0	35.6	+ 3.2	57.2	+ 3.1
Bethany	31.6	+ 6.9	37.0	+10.8	48.4	+ 9.5	55.4	+ 4.2	66.2	+ 3.8	79.6ʲ	+ 7.7	80.2	+ 4.5	76.8	+ 2.1	70.7	+ 4.0	58.0	+ 3.7	39.8	− 3.6	32.7	+ 1.8	56.4	+ 4.6
Chillicothe	35.7	+ 5.7	39.6	+ 7.8	....	......	....	......	66.5	+ 5.4	77.1	+ 3.3	81.4ᵃ	+ 3.6	77.4	+ 1.5	71.2ᵃ	+ 0.8	....	......	....	......	....	......	....	......
Conception	32.6	+ 7.8	37.0	+10.6	47.6	+ 9.2	54.6	+ 2.3	66.2	+ 4.5	77.0	+ 5.9	81.0	+ 5.1	77.8	+ 3.7	72.0	+ 5.0	57.8	+ 2.4	39.8	− 1.6	33.4	+ 3.7	56.4	+ 4.9
Edgerton	34.4ᵇ	......	38.4ᵃ	......	49.9ᵃ	......	56.0ᵃ	......	65.8	......	76.4ᵃ	......	79.0ᵇ	......	76.8ᵍ	......	71.6ᵈ	......	57.7	......	41.6	......	33.2ᵃ	......	56.7	......
Grant City	32.4	+ 7.8	....	......	48.4	+ 8.5	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......
Kansas City	37.3	+11.1	40.7	+10.8	50.9	+10.1	55.9	+ 1.6	67.0	+ 2.5	77.0	+ 4.0	81.1	+ 3.5	77.0	+ 1.2	73.2	+ 5.7	60.1	+ 4.3	44.8	+ 3.3	35.9	+ 4.4	58.4	+ 5.2
Kidder	34.3	+ 7.8	36.0	+ 9.3	46.8	+ 6.4	52.2	− 0.7	66.6	+ 3.6	76.6	+ 4.5	82.2	+ 5.5	81.6	+ 6.1	74.1	+ 6.6	62.2	+ 6.0	46.2	+ 3.9	37.2	+ 7.7	58.0	+ 5.6
Lexington	35.8	+ 8.5	39.6	+10.5	50.1	+ 7.3	56.6	+ 2.3	67.4	+ 3.0	77.0	+ 4.2	80.8	+ 3.7	77.4	+ 1.4	72.8	+ 4.3	56.2	− 1.3	44.0	0.0	36.0	+ 4.5	57.8	+ 4.0
Liberty	36.4	+ 7.6	39.8	+10.4	51.4	+ 9.3	56.2	+ 0.7	66.4	+ 1.7	76.6	+ 2.9	80.8	+ 3.1	77.2	+ 0.6	72.8	+ 3.3	58.7	+ 1.3	44.3	+ 0.6	34.8	+ 2.9	58.0	+ 3.7
Maryville	30.0	+ 7.8	33.3	+10.0	44.4	+ 8.1	51.0	+ 0.4	63.3	+ 2.3	74.8	+ 5.9	78.2	+ 2.7	74.1	+ 0.4	68.4	+ 3.0	54.4	+ 1.2	37.8	− 1.2	30.8	+ 4.5	53.4	+ 3.8
Oregon	32.8	+ 9.0	36.6	+ 8.6	48.0	+ 9.1	54.8	+ 2.1	65.0	+ 1.7	75.2	+ 2.9	78.4	+ 3.0	75.2	+ 0.1	70.0	+ 2.9	57.6	+ 2.7	39.8	− 0.4	33.0	+ 4.5	55.5	+ 3.8
St. Joseph	34.4	+ 7.6	38.4	+ 8.6	48.8	+ 6.1	55.5	+ 1.7	66.6	+ 2.1	77.4	+ 3.5	80.6	+ 1.4	77.1	− 0.3	72.1	+ 3.4	59.0	+ 2.7	41.8	− 2.6	34.1	+ 4.2	57.2	+ 3.2
Tarkio	32.0	+10.0	36.5	+ 9.7	47.4	+ 8.6	55.2	+ 1.9	64.9	+ 1.3	....	......	79.0	+ 2.2	76.2	+ 0.3	70.8	+ 4.6	58.0	+ 2.5	38.2	− 1.9	31.8	+ 6.6	....	......
Trenton	32.8	+ 5.8	36.6	+ 8.9	48.0	+ 7.8	53.8	+ 0.6	65.2	+ 1.3	76.2	+ 3.8	79.4	+ 2.9	76.1	+ 1.0	69.3ᵃ	+ 1.8	56.1ᵃ	− 0.4	40.0	− 2.6	33.8	+ 4.0	55.6	+ 2.9

Letters of alphabet indicate number of days missing from report: thus [ᵃ] one day; [ᵇ] two days, etc.

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UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVI. COLUMBIA, MO., JANUARY, 1922. No. 1.

GENERAL SUMMARY.

Much of January, 1922, was favorable for outdoor occupations in Missouri. There was more sunshine and less precipitation than usual. Quite a cold spell prevailed for a few days beginning on the 19th, but most of the month was neither unusually cold or mild. Snow was quite general on the 12th, and 13th, and 20th and 21st, the last remaining on the ground for several days. There were a few days with sleet or glaze; and thunder was heard on a few days. There were no strong winds.

Many rural districts housed nearly a summer's supply of good ice. In central and northeast districts ice was from about 6 to 11 inches thick. Winter wheat continued healthy, with good root system, but made less than normal growth; it was covered by snow during the coldest weather. Live stock fared well. All roads were in good condition much of the time.

TEMPERATURE.

The monthly mean temperature for the State, 67 stations reporting, was 29.5° or 0.6° below the normal. The Ozark Plateau and Southeast Lowlands averaged 2° and 1.5°, respectively, colder than normal. The Northwest Plateau was about 2° warmer, and the Northeast and Southwest Plains were less than 1° colder than normal. Relatively cold and mild periods of two or three days duration followed each other quite regularly. On the 3rd, 4th, and 8th day temperatures reached the middle 60's. The 19th, 23rd, and 24th were the coldest days. On the first date seven stations recorded zero or lower, while on the 23rd there were 13, the minimum being −6°. The number of days 32° or lower was 28.

PRECIPITATION.

The average precipitation for the State, 86 stations reporting, was 1.21 inches. The departure from the normal for 72 stations having 10 or more years' record was minus 1.05 inches. Precipitation was deficient in all sections, but it was less marked in the western sections. Precipitation fell at regular intervals, the heaviest amounts falling on the 4th, as a rule. There was rain from the 8th to the 10th, confined mostly to the southeast; snow was quite general on the 12-13th, and 17th to 21st; and rain and snow in the southeast on the 26th. Snow was quite evenly distributed, the average monthly total being about 4 inches. In parts of the Ozark Plateau and Southwest Plain amounts ranged from about 6 to 9 inches. The heaviest single snow, between2 and 4 inches, fell on the 20th. There was no drifting. The ground was bare on the 15th and during the last week, but was generally covered from the 20th to 25th.

WIND.

The prevailing winds were from the southeast. The total number of miles, 8 stations equipped with anemometers reporting, was 7,277, an average hourly velocity of 9.8 miles. There were no strong winds.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well placed stations equipped with sunshine recorders reporting, was 177, or 58 per cent of the possible, and about 7 per cent above normal. The sunshine this month was 12 per cent more than the same month last year.

MISCELLANEOUS PHENOMENA.

Aurora.—At Columbia on the 18th.

Fogs, dense.—4th, 8th, 9th, 10th, 17th, 18th, and 27th.
Halos, solar.—7th, 10th, 11th, 14th, and 24th.
Halos, lunar.—6th, 7th, 11th, 14th, 15th, 17th, and 19th.
Sleet.—4th, 17th, 20th, and 31st.
Thunder heard.—3rd, 4th, and 31st.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
								Max. velocity.		
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Miles per hour.	Direction.	Date.
Columbia	.....	80	68	200	66	6,419	8.6	33	sw.	4
Hannibal	30.23	74	..	...	..	6,570	8.8	33	sw.	14
Kansas City	30.20	69	58	185	61	8,389	11.3	39	n.	10
St. Joseph	30.18	81	64	174	58	6,607	8.9	36	nw.	4
St. Louis	30.21	72	65	141	47	8,919	12.0	48	*sw.	4
Springfield	30.19	88	71	126	41	7,993	10.7	34	w.	4
Cairo, Ill	30.21	80	68	...	..	7,468	10.0	35	sw.	4
Keokuk, Iowa	30.24	71	62	215	72	5,848	7.9	35	w.	4

COMPARATIVE DATA FOR JANUARY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	21.5	−8.7	74	−32	1.91	−0.08	.....	.....	6	.....	.....	.....
1889	31.8	+1.6	69	− 2	2.36	+0.37	.....	.....	6	.....	.....	.....
1890	33.8	+3.6	81	−19	4.25	+2.26	.....	.....	9	.....	.....	.....
1891	34.1	+3.9	74	− 1	1.52	−0.47	.....	.....	6	.....	.....	.....
1892	24.0	−6.2	67	−25	1.80	−0.19	.....	4.3	6	.....	.....	.....
1893	22.5	−7.7	66	−14	0.45	−1.54	.....	.....	4	14	8	9
1894	31.4	+1.2	77	−35	2.21	−0.22	0.90	2.4	3	9	11	11
1895	24.7	−5.5	78	−22	1.49	−0.50	2.96	2.7	5	13	9	9
1896	32.9	+2.7	71	− 9	1.17	−0.82	2.20	9.4	5	14	8	9
1897	28.4	−1.8	72	−16	4.90	+2.91	2.44	3.1	4	10	7	14
1898	34.3	+4.1	75	−10	3.98	+1.99	6.95	4.0	8	12	7	12
1899	30.2	0.0	70	−21	1.55	−0.44	3.35	8.4	9	11	8	12
1900	34.5	+4.3	77	− 9	1.22	−0.77	2.40	4.0	6	12	8	11
1901	35.0	+4.8	72	−11	1.30	−0.69	2.30	0.2	4	14	7	10
1902	30.1	−0.1	72	−17	1.23	−0.76	2.95	0.8	4	17	7	7
1903	31.4	+1.2	73	−11	1.36	−0.63	3.37	6.9	5	16	7	8
1904	27.0	−3.2	66	−23	2.85	+0.86	1.71	5.0	6	13	6	12
1905	22.3	−7.9	72	−19	1.79	−0.20	4.74	7.4	8	14	6	11
1906	35.6	+5.4	76	− 8	3.64	+1.65	2.52	6 8	8	14	6	11
1907	34.3	+4.1	79	− 5	5.10	+3.11	3.00	9.2	6	14	5	12
1908	34.4	+4.2	68	−10	1.51	−0.48	4.42	2.8	12	7	6	18
1909	33.7	+3.5	83	−20	2.17	+0.18	2.13	3.6	5	19	5	7
1910	32.3	+2.1	78	−24	1.83	−0.16	2.10	6.5	7	6	7	18
1911	34.6	+4.4	78	−19	1.20	−0.70	3.98	3.5	5	13	6	12
1912	20.0	−11.3	70	−36	1.06	−1.20	3.03	0.7	5	8	7	16
1913	33.1	+1.8	74	−12	3.67	+1.30	2.56	6.5	4	14	7	10
1914	38 1	+6.9	78	− 1	1.42	−0.92	5.30	2.6	8	13	6	12
1915	29.1	−2.2	76	−24	2.92	+0.59	2.00	1.0	4	12	7	12
1916	31.6	+0.7	72	−24	7.36	+5.16	3.10	5.4	8	12	5	14
1917	32.9	+2.5	76	−10	1.52	−0.64	4.65	3.4	12	9	4	18
1918	16.4	−14.0	67	−24	1.68	−0.71	2.50	2.3	5	15	7	9
1919	34.0	+3.6	70	−23	0.40	−1.88	3.20	16.6	7	12	7	12
1920	28.6	−1.4	72	− 5	1.57	−0.65	3.05	1.4	2	20	5	6
1921	37.1	+7.2	74	− 1	1 88	−0.38	4.15	5.7	5	15	5	11
1922	29.5	−0.6	66	− 6	1.21	−1.05	1.45	5.4	6	10	7	14

Climatological Data for January, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	27.0	+0.2	55	9†	3	23	39	0.59	−1.18	0.38	5.0	4	16	0	15	nw.	O. K. Benecke
Clifton Hill	Randolph	731	22	27.9	−1.0	59	3	−1	23	39	0.42	−1.59	0.20	3.2	3	15	5	11	......	Dr. A. J. Bradsher
Columbia	Boone	748	31	28.4	−1.4	63	3	−3	23	42	1.53	−0.70	1.18	4.3	4	13	10	8	e.	U. S. Weather Bureau
Downing	Schuyler	878	11	24.2	......	52	9†	−2	22†	34	0.67	−1.68	0.60	1.6	4	16	3	12	e.	E. E. St. Clair
Fayette††	Howard	661	38	24.1	−3.3	57	3	−6	23	40	2.55	−0.44	1.52	6.0	3	..	..	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	29	28.2	−1.7	60	4	−2	23	37	2.75	+0.14	2.40	5.9	6	16	9	6	se.	Westminster College
Gorin	Scotland	700	34	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	J. W. Pulliam
Hannibal	Marion	534	37	27.1	+0.4	57	3	1	23	40	1.56	−0.64	1.25	4.3	6	11	9	11	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	29.3	−0.5	66	3†	5	23	39	0.92	−1.30	0.45	5.0	3	19	0	12	n.	Miss Emma Swift
Kirksville	Adair	969	39	25.4	+0.5	55	3†	−2	23	40	1.18	−0.46	1.00	2.0	3	16	2	13	ne.	Prof. J. S. Stokes
Louisiana	Pike	469	40	28.6	+0.7	60	3†	−1	23	34	2.21	+0.16	1.65	7.0	5	24	2	5	w.	J. T. Farrell
Macon	Macon	875	28	24.7	−4.0	56	3	0	23	37	0.85	−1.01	0.61	1.2	4	16	6	9	sw	W. C. Brown
Mexico	Audrain	800	43	26.5	−2.1	60	3	−6	23	40	1.61	−0.57	1.10	4.7	5	23	0	8	ne.	Mrs. Abbie Snoddy
Palmyra ††	Marion	652	22	22.2	−6.2	57	3	−2	23	35	1.90	−0.75	1.55	3.9	3	13[a]	5[a]	12[a]	nw.	W. B. Markell
St. Catherine	Linn	800	12	26.8	+0.4	57	3	−2	23	38	1.03	......	0.94	2.5	4	15	9	7	se.	L. D. Baker
St. Charles	St. Charles	456	43	29.0	−2.2	61	14	−1	23	45	0.59	−1.91	0.25	5.0	3	18	4	9	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	30.2	−0.6	61	14	3	23	41	0.74	−1.53	0.30	4.1	6	11	10	10	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	29.4	−0.8	62	14	3	23	43	0.62	−2.45	0.27	2.7	6	12	9	10	s.	St. Louis University
Shelbina	Shelby	779	28	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	S. G. Parsons
Steffenville	Lewis	650	28	25.2	−3.2	55	3	−1	23	40	1.02	−1.45	0.80	3.5	4	16	6	9	nw.	Frank Hall
Unionville	Putnam	1,062	28	25.6	+2.3	58	10	−2	19	41	0.72	−1.38	0.60	1.0	2	17	2	12	n.	Geo. W. Davis
Warrenton	Warren	816	31	26.4	−2.8	61	14	−1	23†	46	1.41	−1.05	0.51	6.5	6	22	1	8	ne.	Prof. A. W. Eberling
Keokuk, Iowa	Lee, Ia.	574	49	25.3	+1.6	55	3	1	23	39	1.04	−0.65	0.79	3.5	5	13	11	7	e.	U. S. Weather Bureau
Section means and	extremes	.....	..	27.1	−0.6	66	3†	−6	23	46	1.13	−1.04	2.40	3.8	4	16	5	10	e.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	38.6	−0.4	65	4	18	24	35	2 57	−2.18	1.27	4.0	6	11	3	17	e.	H. E. Averill
Doniphan	Ripley	344	17	33.4	−2.8	60	4	10	28	35	2.72	−1.49	0.65	6.0	9	15	3	13	ne.	W. W. Martin
Jackson	Cape Girardeau	428	31	33.0	−1.0	63	4	6	28	40	1.95	−1.77	0.60	4.0	8	6	8	17	n.	John G. Putz
Marble Hill	Bollinger	470	27	31.8	−3.0	62	4	8	24	36	0.74	−2.79	0.36	3.5	3	11	9	11	ne.	R. A. DeWitt
Parma	New Madrid	281	..	....	......	..	..	....	..	..	1.82	......	0.57	4.0	6	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	11	....	......	..	..	....	..	..	0.93	−2.12	0.40	3.5	4	..	..	..	......	George F. Ellis
Poplar Bluff	Butler	339	17	35.1	−1.5	63	4	13	24	34	2.02	−1.95	0.56	3.8	6	9	4	18	......	Miss Gertrude Bock
Vanduser	Scott	304	..	....	......	..	..	....	..	..	1.85	......	0.47	3.0	7	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	34.3	−0.5	64	4	15	24	30	1.48	−2.34	0.42	4 0	8	6	8	17	n.	U. S. Weather Bureau
Section means and	extremes	....	..	34.4	−1.5	65	4	6	28	40	1.79	−2.09	1.27	4.0	6	10	6	15	ne.	
Ozark Plateau.																				
Arcadia	Iron	926	43	29.8	−2.3	62	8	6	24	43	1.22	−2.00	0.41	4.9	8	19[a]	1[a]	10[a]	nw.	Arcadia College
Birchtree	Shannon	1,000	28	32.4[a]	−2.0	63	13	10	24	32	1.42	−1.64	0.65	8.0	4	14[a]	5[a]	11[a]	nw.	V. H. Kirkendall
Bolivar	Polk	1,071	32	30.1	−3.8	64	3	5	23	31	1.41	−0.48	0.72	4.5	3	11	6	14	n.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	32.8[a]	−3.4	65	4†	10	19†	45	1.77	−0.47	1.00	3.0	3	16	3	12	e.	H. E. Dean
Eldon	Miller	934	22	27.0	−4.4	65	3	−5	22	42	0.93	−0.61	0.60	3.2	3	13	10	8	e.	E. H. Shepherd
Farmington	St. Francois	918	24	30.6	−2.2	56	4	4	22	36	1.17	−1.18	0 55	5.5	7	15	6	10	ne.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	29.3	−3.6	60	14	0	24	40	1.12	−1.73	0.37	5.7	8	13	6	12	se.	A. C. Leach
Goodland	Iron	1,000	28	30.4	−2 2	62	14	6	23†	51	0.92	−1.95	0.50	4.7	4	18	4	9	s.	F. M Adams
Hollister	Taney	735	18	36.8	+0.8	65	3†	11	19	45	0.84	−1.77	0.58	3.0	2	14	4	13	sw	W. P. Chapmann
Houston	Texas	1,280	29	33.0	+0.4	65	8	8	24	47	1.06	−1.49	0.49	4.0	4	8	8	15	ne.	Walter T. Beard
Koshkonong	Oregon	958	20	34.6	−1.9	63	14	13	24	37	2.46	−1.08	0.72	6.0	8	11	4	16	e.	R. M. Hitt
Lebanon	Laclede	1,265	34	29.0	−4.0	64	14	2	24	44	1.55	−0.90	0 55	5.7	7	15	5	11	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	32.4	−0.9	64	4	7	19	38	1.21	−0.45	0.66	7.0	3	19	1	11	ne.	C. S. Crow
Mountain Grove	Wright	1,463	25	29.6	−3.6	57	3	7	24	38	1.04	−1.83	0.52	8.7	6	9	3	19	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	33.4	−1.7	65	4	9	19	39	1.83	−0.67	0.71	3.5	4	15	4	12	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	29.8	−1.5	64	14	3	24	44	1.23	−1.22	0.44	4.5	5	18	2	11	ne.	Prof. Elmo G. Harris
Seligman	Barry	1,542	15	34.7	0.0	63	4	10	19	37	1.49	−0.75	0.79	2.5	4	11	6	14	e.	Floyd E. Fawver
Seymour	Webster	1,642	16	31.7	−2.6	60	4†	6	24	38	0 75	−1.95	0.48	2.9	3	12	9	10	se.	Ira H. Hailey
Springfield	Greene	1,350	42	31.8	+0.5	61	4	7	24	41	1.38	−1.28	0.44	7.4	5	10	6	15	se.	U. S. Weather Bureau
Section maens and	extremes	.....	..	31.5	−2.0	65	3†	−5	22	51	1.31	−1.23	1.00	4.7	5	14	5	12	e.	
Southwest Plain.																				
Amoret	Bates	831	15	29.0	−1.5	63	3†	0	23	45	1.20	−0.09	0.80	6.5	3	17	7	7	nw.	Darby Fruit Farm
Appleton City	St. Clair	853	29	30.4	−0.9	61	3	0	23	35	1.66	−0.17	1.16	5.5	4	16	3	12	se.	W. G. Bigelow
Clinton	Henry	765	34	30.6	−0.8	62	3†	−1	23	38	2.19	+0.21	1.40	8.0	5	12	6	13	ne.	A. E. Derwent, M. D.
Harrisonville	Cass	904	46	28.0	+0.8	58	14	1	23	41	0.63	−0.97	0.41	2.5	3	6	8	17	s.	John H. Patterson
Lamar	Barton	980	40	30.8	−1.6	65	3	6	19†	40	0.75	−0.95	0.40	5.0	3	9	3	19	se.	Joe W. Springer
Lamonte	Pettis	867	35	29.0	+0.3	60	3	−1	23	37	1.54	−0.24	0.92	3.0	4	4	16	11	nw.	J. E. Wheeler
Marshall	Saline	779	32	27.9[a]	+0.3	62	3	1	23	33	1.78	−0.04	1.45	2.0	4	16	5[b]	8[b]	se.	Dr W. H. Black
Nevada	Vernon	862	30	30.0	−1.7	62	3†	0	23	38	6.15	+4.18	2.95	9.0	3	15	5	11	s.	George A. Kaupp
Warsaw	Benton	687	26	30.6	−2.2	66	3	0	22	36	1.70	−0.68	0.70	9.0	6	12	11	8	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	29.6	−0.8	66	3	−1	23	45	1.42	−0.38	2.95	5.5	4	13	6	12	se.	
Northwest Plateau.																				
Avalon	Livingston	730	24	27.5	−1.1	58	3	1	19	33	1.53	−0.46	1.00	2.0	3	16	1	14	se.	F. G. Ashbaugh
Bethany	Harrison	916	30	25.3	+0.6	53	3	−4	19	35	0.44	−1.01	0.40	0.5	3	16	3	12	se.	M. H. Moulton
Chillicothe	Livingston	779	13	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	Wm. J. Olenhouse
Conception	Nodaway	980	37	25.6	+0.8	54	9	−4	19	35	0.36	−0.69	0.27	1.5	3	16	5	10	se.	Fr. Adelhelm Hess
Edgerton	Platte	856	9	28.0	......	61	3	1	19	45	0.88	−0.60	0.74	2.1	5	19	1	11	se.	Fred L. Stiff
Grant City	Worth	1,134	30	28.2	+3.6	60	14	−5	19	43	0.90	−0.12	0.71	2.2	3	15[a]	2[a]	13[a]	s.	B. F. Locke
Kansas City	Jackson	963	32	29.7	+3.5	64	3	1	23	46	0.61	−0.52	0.43	1.4	6	15	4	12	nw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	34	34.0[c]	+7.5	51	3	8	19	30	1.45	+0 02	1.03	1.3	4	10	4	17	sw.	Linn Terry
Lexington	Lafayette	688	39	29.4	+1.9	62	3	2	23	37	0.32	−1.25	0.22	2.6	2	16	3	12	nw.	Edwin G Loomis
Liberty	Clay	859	31	29.5	+0.7	64	3	0	19	41	0.41	−0.98	0.34	1.6	2	16	3	12	nw.	James H. Harris
Maryville	Nodaway	1,169	27	26.0	+3.8	51	8†	−2	19	35	0.66	−0 53	0.35	5.0	5	12	6	13	s.	J. R. Brink
Oregon	Holt	1,048	66	26.0	+2.2	53	9†	−3	19	33	0.45	−1.03	0.22	T.	4	17	8	6	nw.	Tom Curry
St. Joseph	Buchanan	967	49	27.8	+1.0	56	9	1	19	31	0.55	−0.56	0.29	1.1	5	15	8	8	se.	U. S. Weather Bureau
Tarkio	Atchison	916	28	25.2	+3.2	52	2†	−3	19	34	0.76	−0 10	0.44	6.5	4	19	4	8	s.	Albert Volker
Trenton	Grundy	822	26	26.6	−0.4	55	3	1	19†	32	0.79	−0.77	0.68	1.6	3	15	10	6	n.	W. H. Estes
Section means and	extremes	.....	..	27.8	+2.1	64	3	−5	19	46	0.72	−0.61	1 03	2.1	4	16	4	11	se.	
State means and	extremes	.....	..	29.5	−0.6	66	3†	−6	23	51	1.21	−1.05	2.95	3 9	5	14	5	12	se.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b] represents two days, etc.

† Also on other dates. †† Received too late to be included in means and summaries. ‡‡ Post-office addresses of these stations are as follows: of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for January, 1922.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri				1.24	T.							T.						T.	.08		.27											1.59
Brunswick‖	Grand				.38														.03	.04		.14											0.59
Clifton Hill	Chariton												T.					T.	.02		.20									.20			0.42
Columbia***	Missouri			T.	1.18	T.							T.					.05	.05		.25												1.53
Downing	Mississippi				.60								T.						.02		.01	.04											0.67
Fayette‖	Missouri				1.52															.41	.05	.57											2.55
Fulton	....do				2.40								.02	T.				.01	.01		.23	.08											2.75
Gorin	Mississippi																																....
Hannibal***	....do			.06	1.19	T.							.01					.01	.05		.24	T.			T.							T.	1.56
Hermann‖	Missouri				.05	.52								.02								.60											1.19
Jefferson City‖	....do				.45									.02					T.			.45											0.92
Kirksville	Mississippi				1.00														.02		T.	.16											1.18
Louisiana	....do				1.65	T.							T.	.01				T.	.03	.02		.50											2.21
Macon‖	Chariton				.61								.03	T.					T.	.05		.16											0.85
Mexico‖	Mississippi				1.10	T.								.03					.04	.09		.35											1.61
Pacific‖	Meramec				.08	.52								.05					.08	.02		.35						.02					1.12
Palmyra‖	Mississippi				1.55															.04		.31											1.90
St. Catherine	Grand				.94								T.						.01	T.	.06	.02									T.		1.03
St. Charles	Missouri				.25								T					T.			.12	.22											0.59
St. Louis (1)***	Mississippi			.01	.24								.04	.02				.13	T.	T.	.30	T.					T.						0.74
St. Louis (2)	....do			.01	.21								.02	T				.09	.02		.27												0.62
Shelbina	....do				1.47																												....
Steffenville	....do				.80								.07						.05		.10								T				1.02
Union‖	Meramec				.02	.40								.05					.18			.45						.05					1.15
Unionville‖	Chariton				.60								T.						T.			.12									T.		0.72
Valley Park‖	Meramec				T.	.33								.03					.21	T.		.34						T.					0.91
Warrenton‖	Mississippi				.34	.47								.04					.04	.01		.51											1.41
Keokuk, Ia.***	....do			.03	.76								.02						.03		.20	T.		T.									1.04
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi				.36	.20			.65	.04		.08		.05					.25	.05		.34						.20					2.22
Caruthersville	....do				.35				.12	T	1.27	.28	T.	T.				.15	T	T.	T.						.40						2.57
Doniphan	Black				.65				.10		.48	.05	.01	T.				.35	.08		.40						.60						2.72
Jackson	Mississippi				.60				.54		.02		.08					.18	.02					.23			.28						1.95
Marble Hill	....do											.05						.33									.36						0.74
New Madrid‖	....do				.01	.30			.15	.03		.95		.15				.05	.11	.06	.05	.05						.38					2.29
Parma	....do				.34				.22		.32	.57	.17									.20											1.82
Patton (near)	....do				.40								.05					.20									.28						0.93
Poplar Bluff‖	Black				.43						.56	.11	T.	T.				.31	.11		.15						.35						2.02
Vanduser	Mississippi				.42			.14			.47							.22	.06		.26						.28						1.85
Cairo, Ill.***	....do				.18			T.	.12		.42		.09					.15	.05		.16	T.					.31						1.48
Ozark Plateau.																																	
Arcadia‖	St. Francis				.05	.41			.11					.05					.27	.01		.17						.15					1.22
Birchtree	Gasconade				.33			.18					T.				.26										.65						1.42
Bolivar	Black				.72								T.									.49					.20						1.41
Dean	Osage				1.00						.47										T.						.30						1.77
Eldon	Neosho				.60								T.						.06		.27					T.							0.93
Farmington	Osage				.55			.07					.02	.03				.15	T			.20					.15						1.17
Gano	St. Francis				.36				.07				.03	.04				.12	T.		.08	.05					.37						1.12
Goodland	Meramec				.50									.04								.02					.36						0.92
Hollister	Black				.58																					.26							0.84
Houston	White			T.	.49								T.					.16			.05						.36						1.06
Jerome	Gasconade				.50									T.					.18			.35						.38					1.41
Koshkonong	Black				.72				.19		.28	.18	T.	T.			T.	.24	.07		T.	.18					.60						2.46
Lebanon‖	Osage				.30									.15	.05				.10			.55					.37	.03					1 55
Lockwood	....do				.66								T.								.23						.32						1.21
Mountain Grove‖	White				52									.03					.16			.08					.14	.11					1.04
Neosho	Neosho			T.	.67						.71									T.	.05						.40					T.	1.83
Rolla‖	Meramec				.44									.03					.14			.42						.20					1.23
Seligman	Barry				.45						.79		T.								.05						.20						1.49
Seymour	White			T.	.48						T.		T.	T.				T.	T.		.07						.20						0.75
Springfield***	....do				.32						T.		.01					T.	T.	T.	.44			T.			.34				T.	.27	1.38
Steelville‖	Meramec				.40	05								.40					.15	.03		.30						.60					1.93
Tuscumbia‖	Osage				.30									T.					T.			.41					.08	.04					0.83
Southwest Plain.																																	
Amoret	Osage			T.	.80								T.						T.		.28						.12						1.20
Appleton City	....do				1.16								T					T.	.01		.43			T.			.06			T.			1.66
Clinton	....do				1.40													.02	.01	.68							.08						2.19
Harrisonville‖	....do				.41															.04	.18						T.						0.63
Lamar‖	Neosho				.40																	.25					.10						0.75
Lamonte	Missouri				.92								T.						.06		.52	.04											1.54
Marshall	....do				1.45								T.					T.	.10	.05	.18	T.											1.78
Nevada	Osage				2.95																	1.20					2.00						6.15
Osceola‖	....do				.65																	.48					.30						1.43
Warsaw	Osage				.70									.15				.05	.05	T.	.60						.15						1.70
Waverly‖	Missouri			T	.12														T.			.26											0.38
Northwest Plateau.																																	
Avalon	Grand			1.00																		.18										.35	1.53
Bethany	....do			T.	.40	T.							T.						T.	.02					T.						.02	T.	0.44
Chillicothe‖	....do.																																....
Conception	Missouri			T.	.27								T.						04												.05	T.	0.36
Edgerton	Grand				.74								.01						.01		.10			T.							.02		0.88
Grant City	....do				.71														.07												.12		0.90
Kansas City***	Missouri			T	.43								T.	.01					.01		.10			T.			T.				.01	.05	0.61
Kidder‖	Grand				1.03	.31																.09									.02		1.45
Lexington‖	Missouri				.10														T.			.22											0.32
Liberty	....do			T.	.34														T.		.07						T.				T		0.41
Maryville‖	....do				.35								.05						.05												.20	.01	0.66
Oregon	....do				.18							T.	T.						.01												.04	.22	0.45
St. Joseph***	....do			T.	.29								.01						T.		.06			T.	T.					T.	09	.10	0.55
Tarkio	....do				.44								.02						.05												.25		0.76
Trenton	Grand			.68	T.	T.							T						T	T.	.07	.04			T.						T.		0.79

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for January, 1922.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	36	50	50	40	24	36	48	49	55	46	35	34	35	55	31	40	37	34	17	23	34	17	13	20	31	40	42	45	47	48	55	37.6
	Minimum	16	18	23	39	8	9	9	24	25	27	25	20	18	19	20	12	13	23	4	4	12	7	3	6	10	16	13	14	19	30	27	16.5
Columbia	Maximum	31	46	63	59	23	32	47	46	55	44	36	31	34	58	38	36	33	33	28	22	31	16	12	19	29	35	35	41	44	49	54	37.4
	Minimum	17	24	41	17	12	16	23	27	26	29	20	20	18	24	20	14	23	28	7	13	16	3	−3	7	10	22	15	15	29	32	33	19.3
Fayette §§	Maximum	30	42	57	52	19	29	42	42	51	38	31	26	27	50	26	33	30	29	13	15	28	18	8	15	25	32	34	39	39	42	46	34.8
	Minimum	16	17	36	12	5	10	17	22	20	22	17	18	13	15	17	7	12	13	0	8	8	0	−6	4	8	15	8	7	23	25	25	13.4
Hannibal	Maximum	29	42	57	56	23	30	45	47	54	42	36	30	28	55	37	34	35	31	32	24	30	24	10	15	23	31	35	36	42	45	53	35.9
	Minimum	16	22	38	18	12	14	24	32	31	29	19	16	15	15	17	14	21	31	7	14	17	2	1	7	9	15	13	14	23	30	30	18.3
Jefferson City §§	Maximum	34	49	66	56	23	33	52	46	54	41	34	32	40	61	55	37	39	31	19	25	32	19	14	20	31	33	35	39	43	49	54	38.6
	Minimum	17	19	32	48	14	15	20	23	24	28	27	20	18	22	25	15	24	20	10	12	19	10	5	7	13	20	14	13	17	33	36	20.0
Kirksville	Maximum	36	46	56	49	19	33	46	46	55	48	37	29	28	51	44	36	35	34	30	24	33	31	10	14	24	33	36	38	43	46	54	36.9
	Minimum	11	19	32	13	6	7	21	28	29	27	20	9	12	11	10	10	11	21	0	8	11	−1	−2	5	11	10	11	13	10	29	25	13.9
Louisiana	Maximum	35	37	60	60	56	40	40	46	52	55	42	32	30	53	56	42	35	36	33	24	32	32	22	16	20	28	32	34	40	42	50	39.1
	Minimum	18	16	32	48	15	15	20	32	27	28	28	15	18	25	22	12	16	33	10	14	14	5	−1	5	6	15	0	2	16	30	28	18.2
Macon §§	Maximum	35	41	56	50	21	31	40	45	49	45	32	30	34	52	29	36	37	32	15	23	32	11	8	17	26	34	36	40	45	46	54	34.9
	Minimum	13	15	33	41	7	7	10	16	25	26	23	14	13	15	15	12	16	17	2	2	14	3	0	3	7	12	10	10	14	28	27	14.5
Mexico §§	Maximum	31	46	60	54	26	32	46	48	53	40	35	31	35	56	31	36	35	32	16	22	32	14	12	19	29	34	39	41	41	51	55	36.6
	Minimum	15	16	29	45	11	12	18	23	29	27	25	19	15	16	20	13	17	20	6	6	15	3	−6	1	4	11	8	9	23	30	28	16.4
St. Catherine	Maximum	33	46	57	53	22	33	44	47	53	47	42	31	32	52	47	38	36	35	31	24	30	32	10	15	27	35	39	43	45	47	52	38.0
	Minimum	11	18	33	20	5	8	21	26	24	25	21	15	14	14	26	8	18	25	0	7	10	0	−2	5	12	12	11	15	23	30	24	15.5
St. Louis (1)	Maximum	27	38	55	61	30	33	47	48	56	43	35	31	31	61	42	36	34	38	38	24	33	28	15	23	28	36	35	40	43	49	53	38.4
	Minimum	20	22	38	26	22	20	27	35	34	32	22	20	20	20	23	21	27	33	17	16	21	5	3	6	8	21	15	16	26	31	36	22 0
Unionville	Maximum	33	46	54	45	20	32	44	42	54	58	48	31	28	51	45	35	37	34	30	22	33	30	8	16	28	35	38	42	46	47	56	37.7
	Minimum	10	20	30	15	5	4	20	25	30	22	16	12	10	10	12	10	15	22	−2	6	10	0	−1	5	10	12	8	14	20	26	26	13.6
Warrenton §§	Maximum	30	50	60	51	26	34	47	46	54	42	33	29	30	61	32	36	31	32	15	22	33	16	11	21	27	32	36	38	44	49	52	36.1
	Minimum	17	17	23	48	17	15	15	22	29	30	31	16	16	15	25	15	16	21	12	10	15	10	−1	−1	1	4	11	10	14	21	28	16.8
Southeast Lowlands.																																	
Caruthersville	Maximum	46	44	59	65	51	45	65	54	45	46	45	37	40	60	55	49	49	59	55	32	34	41	35	34	40	36	43	50	45	62	65	47.6
	Minimum	26	24	35	51	29	25	35	42	38	36	34	21	28	25	36	25	29	36	25	24	28	23	21	18	19	31	32	24	32	32	33	29.6
Doniphan	Maximum	37	38	54	60	50	39	49	55	48	43	44	37	35	55	52	42	36	40	44	28	53	35	32	29	34	32	38	43	43	50	52	42.2
	Minimum	22	19	38	50	24	20	25	37	27	39	34	20	25	20	27	20	19	30	21	21	24	19	15	13	15	26	28	10	21	32	25	24.7
Jackson	Maximum	38	36	53	63	54	56	53	61	61	44	42	34	31	55	51	43	38	42	41	26	30	30	28	28	36	31	40	46	47	55	57	43.5
	Minimum	22	12	34	50	26	20	20	30	26	35	32	16	24	18	27	17	19	34	20	20	24	19	11	9	12	25	20	6	21	24	24	22.5
Poplar Bluff §§	Maximum	45	40	57	63	47	41	53	61	46	43	44	37	37	59	51	43	35	42	44	27	33	36	26	27	37	32	39	49	46	51	58	43.5
	Minimum	27	23	38	47	25	21	25	38	31	39	34	21	27	25	34	21	24	33	24	22	25	21	14	13	15	27	29	18	28	30	30	26.7
Cairo, Ill.	Maximum	32	43	57	64	36	36	51	52	44	45	40	31	31	55	46	38	45	50	45	28	30	32	27	26	34	32	39	43	46	54	55	41.5
	Minimum	23	23	43	36	26	24	28	40	36	37	25	20	25	25	28	22	27	37	22	22	26	21	17	15	16	28	30	21	28	32	38	27.1
Ozark Plateau.																																	
Arcadia §§	Maximum	38	45	61	61	37	38	49	62	57	48	45	40	34	59	45	42	35	42	23	24	31	32	24	28	35	30	42	46	44	55	55	42.2
	Minimum	19	14	23	44	21	15	16	17	23	22	30	15	20	16	23	12	12	21	20	16	17	19	7	6	7	8	25	5	5	22	23	17.5
Birchtree	Maximum	39	39	55	62	39	43	58	52	48	43	37	35	63	53	41	34	39	..	30	25	32	34	31	28	36	32	41	46	43	54	54	[a]42.2
	Minimum	18	20	35	38	18	16	34	25	35	30	15	20	19	29	13	21	30	..	15	15	21	21	3	3	12	24	25	14	26	31	32	[a]21.9
Eldon	Maximum	37	49	65	60	31	38	53	50	55	41	38	35	35	60	45	42	32	35	27	30	35	14	20	30	34	29	32	36	41	45	55	39.6
	Minimum	11	14	36	20	9	10	16	26	20	25	20	15	13	18	19	9	15	25	2	7	7	−5	−4	3	12	10	9	19	20	21	23	14.4
Farmington	Maximum	30	34	53	56	45	36	48	51	50	44	38	32	30	55	49	40	36	39	36	24	34	30	22	22	32	28	37	43	44	52	52	39.4
	Minimum	19	18	34	45	21	18	30	33	27	31	30	16	19	19	30	15	18	33	16	17	20	20	5	4	7	22	17	12	24	26	28	21.7
Hollister	Maximum	60	56	65	65	65	55	50	60	55	50	44	40	40	65	60	43	42	46	45	42	40	40	35	30	36	35	48	44	56	58	56	49.2
	Minimum	20	20	40	34	25	15	18	35	25	30	32	22	25	20	22	15	30	30	11	18	20	14	25	15	20	25	30	20	30	38	28	24.3
Koshkonong	Maximum	40	41	55	61	41	41	52	59	53	43	43	37	38	63	51	44	34	41	43	26	33	38	32	29	35	32	39	49	43	56	58	43.6
	Minimum	23	24	39	39	20	19	22	37	33	37	32	19	24	26	33	18	22	29	19	19	23	23	17	13	14	25	27	20	29	32	33	25.5
Lebanon §§	Maximum	30	56	62	57	36	36	51	54	52	42	36	34	37	64	39	41	37	41	16	22	29	30	22	26	36	32	43	47	43	47	56	40.5
	Minimum	10	12	27	50	14	14	17	24	29	32	29	16	22	21	24	10	10	22	8	8	15	10	4	2	6	7	24	12	17	20	30	17.6
Mountain Grove §§	Maximum	38	37	57	56	34	38	42	53	50	34	35	36	33	56	36	37	35	42	15	28	34	37	26	26	29	32	36	38	36	53	57	38.6
	Minimum	17	21	26	41	16	17	18	28	30	32	18	21	20	18	24	16	15	28	11	11	18	20	25	7	9	15	24	19	21	26	31	20.7
Neosho	Maximum	37	46	61	65	32	42	51	55	52	48	44	38	39	61	62	41	44	51	41	24	38	38	39	30	31	34	37	43	45	50	52	44.3
	Minimum	14	21	44	26	15	18	21	27	27	29	27	21	22	25	25	14	23	34	9	14	15	15	16	13	17	25	28	17	31	34	28	22.4
Rolla	Maximum	36	50	62	52	30	41	51	51	54	44	35	31	38	64	34	35	42	40	17	23	35	27	20	29	34	34	41	47	43	55	53	40.3
	Minimum	17	18	28	40	18	16	18	22	30	30	31	17	21	20	28	15	15	32	11	11	17	16	4	3	9	9	18	11	11	27	31	19.2
Springfield	Maximum	35	46	60	61	30	41	48	49	48	45	35	33	34	61	43	39	39	43	20	22	33	37	23	28	32	32	39	41	45	48	52	40.1
	Minimum	18	27	46	20	15	19	26	36	34	35	23	21	22	29	23	18	26	20	8	14	17	21	9	7	17	25	26	23	33	36	36	23.5
Southwest Plain.																																	
Amoret	Maximum	37	50	63	63	39	39	50	49	56	48	42	40	40	57	42	39	38	32	30	20	31	20	15	18	32	38	37	42	43	39	48	39.9
	Minimum	12	22	40	18	8	16	22	27	24	28	24	18	18	26	21	12	19	22	2	10	10	6	0	8	8	24	10	17	30	30	27	18.0
Appleton City	Maximum	37	50	61	58	26	38	51	48	53	42	41	37	39	58	49	40	37	34	33	19	32	25	13	20	33	36	37	42	44	45	47	39.5
	Minimum	17	25	42	23	12	19	26	28	27	31	27	21	21	27	26	16	25	29	6	12	16	8	0	7	9	25	17	19	31	35	31	21.2
Clinton	Maximum	35	50	62	62	25	36	50	47	52	44	42	37	45	56	51	38	37	35	36	20	30	26	14	22	34	36	37	44	44	46	48	40.0
	Minimum	18	25	42	24	12	18	23	24	28	30	25	22	25	28	25	18	23	29	6	13	12	5	−1	8	12	25	20	18	30	35	32	21.1
Harrisonville §§	Maximum	37	48	57	43	27	28	47	50	57	45	37	40	40	58	37	40	35	33	23	35	35	16	15	13	30	37	35	41	45	40	47	37.8
	Minimum	16	24	29	42	7	8	18	27	26	27	25	19	16	17	22	13	13	22	3	13	13	10	1	5	10	13	19	19	22	35	27	18.1
Lamar §§	Maximum	40	56	65	52	31	44	52	52	49	44	40	39	40	60	39	44	47	41	19	21	35	36	21	25	34	39	40	43	45	50	51	41.7
	Minimum	15	23	33	47	13	13	22	29	23	25	26	19	19	20	26	15	18	27	6	6	12	9	7	6	16	15	22	18	25	34	30	19.8
Lamonte	Maximum	39	51	60	57	24	39	51	53	53	40	38	33	36	57	38	42	42	25	32	22	31	17	14	19	33	40	42	45	41	47	50	39.5
	Minimum	15	23	41	20	9	15	20	26	26	28	22	20	17	24	22	14	14	20	4	13	10	5	−1	8	14	23	16	18	27	31	29	18.5
Marshall	Maximum	52	49	62	..	24	33	42	45	52	43	40	33	30	54	45	43	37	33	32	21	31	27	14	20	29	36	39	40	42	47	40	[a]37.8
	Minimum	15	22	39	..	8	14	21	25	26	27	26	19	16	21	21	12	19	30	4	12	12	8	1	9	14	21	9	15	25	32	17	[a]18.0
Nevada	Maximum	36	51	62	62	25	43	51	46	51	43	43	39	38	58	38	42	41	35	21	21	32	29	16	24	33	35	37	42	45	47	50	39.9
	Minimum	15	26	42	24	12	19	24	31	26	26	26	22	21	30	25	16	26	20	6	12	17	4	6	9	8	26	15	15	32	35	29	20.1
Warrensburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warsaw	Maximum	36	51	66	61	27	41	54	51	55	47	47	35	36	59	52	42	37	36	36	20	34	31	16	22	34	39	40	45	43	46	50	41.6
	Minimum	18	21	41	25	13	15	20	26	20	27	27	20	20	26	26	9	19	31	7	12	18	0	2	6	13	25	18	9	30	35	28	19.6
Northwest Plateau.																																	
Chillicothe	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Grant City	Maximum	31	50	51	55	21	36	46	46	58	54	55	36	33	60	46	40	41	46	28	29	42	45	13	24	37	42	42	46	46	46	44	41.6
	Minimum	9	21	30	12	2	5	21	22	24	31	21	20	13	20	14	10	19	19	−5	6	8	2	0	1	14	19	16	17	26	24	20	14.9
Kansas City	Maximum	36	49	64	58	24	38	50	48	58	48	34	36	38	56	37	40	33	32	14	24	35	30	10	18	34	38	38	44	44	39	48	38.5
	Minimum	18	28	45	12	7	16	27	34	34	33	24	24	21	34	21	19	25	8	3	14	18	3	1	9	14	24	22	25	33	26	26	20.9
Kidder §§	Maximum	40	42	51	49	45	44	48	50	45	48	42	46	48	44	40	42	39	18	38	38	35	30	20	12	25	30	35	42	42	38	56	39.5
	Minimum	30	29	30	36	30	31	28	30	32	30	34	31	30	32	24	24	31	29	8	24	29	24	19	..	..	..	..	..	32	36	27	[c]28.4
Lexington §§	Maximum	35	49	62	57	25	35	46	48	57	45	43	35	37	54	48	39	35	39	32	23	36	30	12	18	31	37	39	44	43	45	46	39.5
	Minimum	15	24	32	20	8	13	21	29	30	27	24	22	19	23	21	14	19	29	3	12	15	9	2	10	15	22	15	17	29	32	27	19.3
Maryville §§	Maximum	34	49	48	43	13	32	43	41	51	43	33	32	29	51	39	38	40	33	14	26	39	39	10	20	34	40	40	45	42	39	42	36.2
	Minimum	11	24	33	10	1	5	22	22	27	29	19	20	14	25	17	12	20	12	−2	8	10	4	−1	2	15	20	18	20	28	21	20	15.7
Oregon	Maximum	34	50	48	43	16	32	44	41	53	48	34	34	33	53	40	37	40	34	16	26	39	34	14	21	33	38	38	44	43	40	45	36.9
	Minimum	10	25	33	10	0	6	23	22	27	28	19	17	13	23	17	13	21	8	−3	8	9	3	−2	1	15	18	16	20	29	22	20	15.2
St. Joseph	Maximum	36	50	52	39	20	35	46	45	56	48	32	35	35	54	34	39	41	33	16	23	34	24	14	18	33	40	39	45	44	37	46	36.9
	Minimum	15	27	39	8	4	11	25	27	32	30	22	23	17	32	20	17	24	5	1	13	12	5	4	9	14	23	19	24	32	24	24	18.8
Trenton	Maximum	30	45	55	49	20	30	40	42	51	46	34	34	30	51	38	35	37	35	27	26	31	25	13	17	28	35	36	41	43	45	49	36.1
	Minimum	12	20	35	17	6	7	22	26	29	24	20	22	17	20	17	13	20	25	1	10	12	4	1	7	15	18	14	18	26	28	25	17.1

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

551.65
UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVI. COLUMBIA, MO., FEBRUARY, 1922. No. 2.

GENERAL SUMMARY.

February, 1922, in Missouri, was milder than normal in all sections, and drier than usual except in the southeastern counties. From the 2nd to the 20th, barring a touch of winter cold along about the 13th, the weather was mostly bright and pleasant, and favorable for outdoor pursuits. The last five days of the month were rather blustry, wet and cold, and probably the most unpleasant days of the month.

At the close of the month the condition of winter wheat was satisfactory as a whole. Live stock were in fine condition. Fruit buds were normal for the season. Highways were in excellent condition up to the time of the more general precipitation about the 20th; some of the roads were even dusty. The snowstorm of the 28th temporarily interfered with cross-state traffic.

TEMPERATURE.

The monthly mean temperature, based upon the records of 69 stations, was 35.4°. The mean departure from the normal for 67 stations having 10 or more years' record was plus 4.1°. This February is not as mild by about 5° as the same month in 1921, but it is the fifth consecutive February with marked plus departure from normal. The excess in temperature was uniformly distributed over the State. The milder periods prevailed from about the 8th to 11th, 17th to 23rd, and on the 21st and 22nd. Day temperature on the 10th, and 21st and 22nd varied between 70° and 75° generally. The cold periods were 6th and 7th, 12th to 16th, and the last five days of the month. The 13th was the coldest day, but only 15 stations reported zero temperatures and these were confined to the northern half of the State. The 28th was also quite a cold day in Ozark Plateau. The average number of days with temperature of 32° or lower was 22.

PRECIPITATION.

The average precipitation, 85 stations reporting, was 1.79 inches. The departure from the normal for 77 stations having 10 or more years' record was minus 0.44 inch. In the Southeast Lowlands precipitation was slightly more than normal but over the remainder of the State it was considerably below the usual February amounts; the Ozark Plateau received but little more than 50 per cent of the normal. Precipitation was general on the 1st, 22-23rd, and 26th to 28th, largely snow on the last two dates. There was very little precipitation of any kind during the period from the 2nd to the 20th. The only general snow occurred on the 28th, though snow fell at a number of stations on the 26th. The total for the month averaged about 2 inches; the normal is about 6 inches.

WIND.

The prevailing winds were from the northwest. The average wind movement, based upon the records of 8 stations equipped with anemometers, was 8,103 miles, 12 miles an hour, and about 15 per cent above normal. Brisk to high wind occurred on the 22nd but there was no damage.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, based upon the records of 6 well placed stations equipped with sunshine recorders, was 192. This is about 63 per cent of the possible and about 9 per cent more than normal. There was about 3 per cent more sunshine than during the same month last year, and that one was considered an exceptionally bright winter month.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---19th, 20th, 21st, and 26th.

Hail.---At Neosho on the 20th; Clifton Hill, Downing, Palmyra on the 21st, and at Macon on the 22nd.

Halos, solar.---8th, 10th, 11th, 14th, 16th, 17th, 19th, 21st, and 25th.

Halos, lunar.---5th, 7th, 8th, 9th, 10th, 12th, 13th, and 14th.

Sleet.---4th. 5th, 25th, 26th, and 28th.

Thunderstorms.---19th, 20th, 21st, 22nd, and 23rd.

OBSERVERS' REMARKS.

Downing.---A barn in this neighborhood was struck by lightning and burned the night of the 20th.

St. Catherine.---February was an extra fine month, but ended cold and stormy. Live stock fared well.

Lockwood.---A very pleasant month. A few oats have been sown.

Neosho.---Thunderstorm with hail on the 20th.

Seymour.---Heavy thunder on the 20th and 27th. Rain on the 20th started with hail.

Amoret.---Fine month. Few oats sown.

Appleton City.---Month rather fine and clear. Roads good, dusty at times.

Lamonte.---Some spring plowing done and some oats sown; wheat does not look healthy.

Warsaw.---Fine weather up to the 20th. Closed cold with driving snow.

Avalon.---Fine month for live stock.

Liberty.---Thunderstorm and hail on the 21st.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
								Max. velocity.		
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Miles per hour.	Direction.	Date.
Columbia	30.14	76	57	206	68	7,219	10.7	33	sw.	16
Hannibal	30.14	73	..	...	..	7,583	11.3	38	s.	22
Kansas City	30.13	67	49	218	73	9,357	13.9	37	sw.	1
St. Joseph	30.12	76	52	217	72	7,484	11.1	48	w.	22
St. Louis	30.13	73	58	150	50	10,054	15.0	50	s.	22
Springfield	30.12	83	62	148	49	8,291	12.3	39	s.	22
Cairo, Ill	30.13	77	67	...	..	8,394	12.5	38	sw.	22
Keokuk, Iowa	30.15	74	59	212	68	6,441	9.6	40	sw.	1

COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	33.0	+ 2.0	73	−11	2.04	−0.28	......	.....	7	.....	.....	.....
1889	29.3	− 1.7	73	− 9	2.57	+0.25	.	.....	7	.....	.....	.....
1890	35.5	+ 4.5	81	− 7	2.24	−0.08	......	.....	7	.....	.....	.....
1891	32.7	+ 1.7	76	− 8	2.28	−0.04	......	2.4	6	.....	.....	.....
1892	37.7	+ 6.7	71	2	4.15	+1.83	......	.....	9	7	6	16
1893	27.9	− 3.1	65	−20	1.98	−0.34	2.30	4.6	6	10	7	11
1894	30.8	− 0.2	72	−12	2.52	+0.20	2.60	11.2	6	10	8	10
1895	23.6	− 7.4	77	−26	0.55	−1.77	1.10	3.3	5	10	10	8
1896	35.6	+ 4.6	81	−10	1.61	−0.71	2.20	4.1	5	12	8	9
1897	34.8	+ 3.8	74	−15	2.30	−0.02	3.60	8.2	7	7	7	14
1898	35.4	+ 4.4	78	− 9	1.62	−0.70	2.90	0.8	5	13	6	9
1899	20.4	−10.6	72	−32	2.17	−0.15	4.30	5.3	6	12	8	8
1900	26.2	− 4.8	70	−16	3.92	+1.60	2.85	16.6	10	10	6	12
1901	28.1	− 2.9	76	−19	1.63	−0.69	2.36	7.6	6	13	7	8
1902	24.0	− 7.0	72	−17	1.50	−0.82	2.35	5.8	5	11	8	9
1903	29.8	− 1.2	74	−25	2.92	+0.60	2.65	5.3	7	11	6	11
1904	30.0	− 1.0	82	−18	0.91	−1.41	1.46	1.5	5	11	8	10
1905	21.5	− 9.5	69	−40	1.64	−0.68	1.20	13.2	8	11	6	11
1906	33.7	+ 2.7	73	−13	2.28	−0.04	2.40	4.1	7	15	6	7
1907	34.8	+ 3.8	77	−15	1.65	−0.67	3.72	4.5	6	12	5	11
1908	35.6	+ 4.6	78	− 7	4.32	+2.00	4.28	4.1	9	13	6	10
1909	38.8	+ 7.8	71	− 4	3.38	+1.06	2.50	3.1	9	13	5	10
1910	28.3	− 2.7	72	−24	1.98	−0.34	3.00	7.7	6	12	6	10
1911	38.1	+ 7.1	87	0	3.64	+1.32	2.08	6.3	8	12	5	11
1912	28.3	− 2.7	72	−12	2.45	+0.13	3.20	11.9	6	10	7	12
1913	29.8	− 1.7	78	− 9	2.21	−0.18	4.78	8.5	7	12	5	11
1914	28.3	− 3.2	75	−11	2.71	+0.42	2.80	14.0	7	12	6	10
1915	39.4	+ 8.0	72	7	3.18	+0.81	2.05	4.1	8	9	5	14
1916	31.4	+ 0.2	78	−12	0.98	−1.48	2.70	5.0	5	13	6	10
1917	30.5	− 1.0	83	−22	0.41	−2.03	1.24	1.4	2	14	7	7
1918	34.9	+ 4.6	83	−25	1.11	−1.26	2.00	0.6	4	15	6	7
1919	35.3	+ 4.0	71	−10	1.98	−0.35	2.20	6.4	7	13	4	11
1920	34.5	+ 3.2	78	− 5	0.57	−1.68	1.41	1.2	4	11	6	12
1921	40.1	+ 9.1	86	5	0.94	−1.33	2.00	1.8	4	14	6	8
1922	35.4	+ 4.1	80	− 5	1.79	−0.44	1.65	1.9	5	14	6	8
....	.....	....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....
....	.....	....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....
....	.....	....	.....	.....	.....	....	.....	.....	.....	.....	.....	.....

Climatological Data for February, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	31.8^{a}	+ 3 3	77	21	3	13†	51	1.53	−0.48	0.55	6.0	5	14	0	14	nw.	O. K. Benecke
Clifton Hill	Randolph	731	22	35.1	+ 7.8	74	22	2	13	42	1.32	−0.64	0.40	1.9	7	13	9	6	......	Dr. A J. Bradsher
Columbia	Boone	748	31	34.4	+ 4.0	74	22	7	13	35	1.23	−0.90	0 58	3.1	6	11	11	6	n.	U. S. Weather Bureau
Downing	Schuyler	878	11	30.1	......	64	21†	−3	13	36	1.41	−0.04	0.63	2.5	6	19	3	6	n.	E. E. St. Clair
Fayette††	Howard	661	38	28.5	− 1.5	70	21†	1	13	37	1.27	−0.81	0.57	8.0	3	..	..	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	29	36.7	+ 4.0	69	21	8	13†	32	1.10	−1.00	0.57	1.5	6	11	13	4	ne.	Westminster College
Gorin	Scotland	700	34	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	J. W. Pulliam
Hannibal	Marion	534	37	33.0	+ 3.9	74	22	4	13	36	1.18	−0.42	0.33	T.	6	9	13	6	nw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	36.7	+ 5.8	75	10†	9	13†	56	1.23	−0.86	1.00	1.0	4	19	0	9	w.	Miss Emma Swift
Kirksville	Adair	969	39	31.4	+ 6.5	70	22	−1	13	39	0.99	−0.94	0.41	2 0	4	19	2	7	ne.	Prof. J. S. Stokes
Louisiana	Pike	469	40	36.6	+ 8.2	72	22	8	13	42	1.32	−1.15	0 48	1.5	9	24	2	2	n.	J. T. Farrell
Macon	Macon	875	28	30.0	+ 1.9	71	21	0	13†	49	2.07	−0.11	0.56	2.0	5	15	6	7	sw.	W. C. Brown
Mexico	Audrain	800	43	31.8	+ 3.1	74	21†	4	13	45	1.03	−1.42	0.45	1.7	5	19	3	6	w.	Mrs. Abbie Snoddy
Palmyra ††	Marion	652	22	29.0	+ 2.2	72	22	2	13†	47	1.61	−0.68	0.69	T.	3	13	6	9	se.	W. B. Markell
St. Catherine	Linn	800	12	32.3	+ 3.3	69	21	−2	13	36	1.20	......	0 48	1.5	5	15	10	3	n.	L. D. Baker
St. Charles	St. Charles	456	43	36.0	+ 4.3	76	22	10	7†	42	0.84	−1.06	0.50	0.2	4	12	7	9	n.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	36.4	+ 1.9	74	22	12	7	31	1.52	−1.23	0 55	0.8	9	6	11	11	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	35.7	+ 3.5	73	22	11	7	32	1.17	−1.14	0 32	2.6	8	9	7	12	nw.	St. Louis University
Shelbina	Shelby	779	28	....	......	..	..	..	..	..	1.35	−0.84	0.55	T.	3	..	..	..	......	S. G. Parsons
Steffenville	Lewis	650	28	33.2	+ 5.9	70	22	1	13	45	1.37	−0.68	0.40	5.0	6	15	6	7	e.	Frank Hall
Unionville	Putnam	1,062	28	30.8	+ 6.5	68	21	−4	13	38	1.47	−0.53	0.82	2.0	6	16	4	8	n.	Geo. W. Davis
Warrenton	Warren	816	31	33.0	+ 3.6	74	21	8	14	44	1.28	−1.23	0.59	0.8	5	17	3	8	nw.	Prof. A. W. Eberling
Keokuk, Iowa	Lee, Ia.	574	49	30.6	+ 4.0	68	22	2	13	35	1.56	−0.06	0 46	2.1	6	11	11	6	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	33.0	+ 4.2	77	21	−4	13	56	1.32	−0.77	1.00	2.1	6	15	6	7	n.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	45.6	+ 6.7	80	21	21	7	33	3.22	−0.58	1.03	T.	11	12	2	14	e.	H. E. Averill
Doniphan	Ripley	344	17	41.4	+ 3.3	73	10†	15	16	38	4.25	+1.10	1.34	0	9	12	3	13	ne.	W. W. Martin
Jackson	Cape Girardeau	428	31	40.4	+ 4.9	70	19	10	16	37	2.36	−0.53	1.33	0	7	5	5	18	......	John G. Putz
Marble Hill	Bollinger	470	27	40.4	+ 5.1	71	10†	11	7	39	3.24	−0.04	1.65	1.5	5	10	7	11	s.	R. A. DeWitt
Parma	New Madrid	281	..	....	......	..	..	..	..	..	2.63	......	0.96	0	7	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	11	....	......	..	..	..	..	..	2.25	+0.31	1.00	0	4	..	..	..	......	George F. Ellis
Poplar Bluff	Butler	339	17	43 0^{c}	+ 6.7	73	11	17	7	34	4.28	+1.32	1.40	0	8	9^{c}	6^{c}	8^{c}	.....	Miss Gertrude Bock
Vanduser	Scott	304	..	....	......	..	..	..	..	..	3.83		1 30	0	8	20	0	8	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	40.9	+ 3.3	72	22	14	7	38	2.81	−0.52	1.13	T.	9	3	7	18	n.	U. S. Weather Bureau
Section means and	extremes	....	..	42.0	+ 5.0	80	21	10	16	39	3 21	+0.15	1.65	0.2	8	10	4	14	ne.	
Ozark Plateau.																				
Arcadia	Iron	926	43	35.8	+ 2.3	74	10	10	7†	43	1.91	−1.25	0.91	T.	6	13	7	8	w.	Arcadia College
Birchtree	Shannon	1,000	28	40.0^{a}	+ 5.1	78	10	11	16	38	2.18	−0.31	1.14	1.0	5	15	1	12	e.	V. H. Kirkendall
Bolivar	Polk	1,071	32	39.0	+ 4.6	72	10†	10	13	33	1.59	−0.70	0.85	3.0	6	9	8	11	sw	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	40 2^{c}	+ 5 4	78	10†	10	28	41	2.50	+0.67	0.81	3.5	6	15^{c}	3^{c}	7^{c}	w.	H. E. Dean
Eldon	Miller	934	22	33.6	+ 1.7	74	21	2	28	48	0.86	−1.24	0.71	0.5	3	7	14	7	ne.	E. H. Shepherd
Farmington	St. Francois	918	24	37.9	+ 2.3	72	22	10	7	36	1.92	−1.37	0.98	1.5	6	8	9	11	ne.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	36.6	+ 2.1	73	10	9	7	40	2.13	−0.25	1.13	3.2	5	11	7	10	ne.	A. C. Leach
Goodland	Iron	1,000	28	38.0	+ 5.1	77	10	8	16	49	2.44	−0.09	1.48	1.0	4	14	3	11	s.	F. M Adams
Hollister	Taney	735	18	43.2	+ 5.2	80	10	10	16	48	2.25	+0 17	1.05	1.0	4	12	4	12	n.	W. P. Chapmann
Houston	Texas	1,280	29	39.4	+ 5.2	76	10	9	16	46	3.15	+0.93	1.22	2.0	4	12	5	11	ne.	Walter T. Beard
Koshkonong	Oregon	958	20	41.8^{a}	+ 4.3	73	19	15	17	40	3.49	+0 70	1.65	0	4	9	3	16	nw.	R. M. Hitt
Lebanon	Laclede	1,265	34	35.4	+ 1.5	74	10	9	16	40	2.01	−0.49	1.05	0.2	6	15	5	8	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	38.4	+ 2.9	73	10	9	7†	39	1.63	−0 34	1.12	5.0	3	17	7	4	n.	C. S. Crow
Mountain Grove	Wright	1,463	25	34.8	+ 1.0	72	10	11	16	40	2.61	+0.35	1.38	0	4	11	2	15	s.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	41.2	+ 4 6	76	10	11	16	39	2.01	−0 37	0.72	2.0	5	17	3	8	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	34.9	− 0 3	75	10	11	7†	49	1.98	−0.36	1.28	T.	3	15	9	4	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	15	42.2	+ 6.0	75	10	15	7†	33	1.97	+0.09	0.66	2.5	6	11	10	7	e.	Floyd E. Fawver
Seymour	Webster	1,642	16	39.6	+ 7.2	74	10	11	16	40	2.63	+0.18	1.20	3.0	5	13	4	11	ne.	Ira H. Hailey
Springfield	Greene	1,350	42	38.2	+ 4.6	73	10	12	13	30	2.02	−0.25	1.00	5.1	7	9	11	8	se.	U. S. Weather Bureau
Section maens and	extremes	.....	..	38.4	+ 3.7	80	10	2	28	49	2.17	−2.09	1.65	1.8	5	12	6	10	ne.	
Southwest Plain.																				
Amoret	Bates	831	15	35.2	+ 1 5	75	10	4	13	42	1.09	−1.06	0.52	3.0	5	14	7	7	sw.	Darby Fruit Farm
Appleton City	St. Clair	853	29	37.6	+ 5.3	74	10	8	13	36	0.93	−1.04	0.59	1.5	4	18	4	6	ne.	W. G. Bigelow
Clinton	Henry	765	34	37.6	+ 5.7	74	22	7	13	33	1.94	−0 16	0 78	4.5	5	7	15	6	nw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	46	32.4	+ 2.7	73	10†	3	13	44	1.29	−0.73	0.68	3.5	4	7^{a}	6^{a}	14^{a}	nw.	John H. Patterson
Lamar	Barton	980	40	38.6	+ 4.1	76	10	9	13†	42	1.65	−0.58	0.89	0	4	17	1	10	ne.	Joe W. Springer
Lamonte	Pettis	867	35	35.0	+ 3.4	74	21†	5	13	37	1.27	−0 64	0.55	4.0	4	10	13	5	se.	J. E. Wheeler
Marshall	Saline	779	32	35 0^{a}	+ 5.5	72	21	4	13	39	1.47	−0.37	0.65	2 5	5	17^{a}	4^{a}	6^{a}	nw	Dr W. H. Black
Nevada	Vernon	862	30	37.2	+ 5.3	74	10	8	13	32	1.08	−1.00	0.73	4 0	2	16	5	7	n.	George A. Kaupp
Warsaw	Benton	687	26	38.0	+ 4.2	73	22†	8	13†	41	2.44	−0.12	1.13	8.0	5	13	10	5	ne.	J. R. Smith, M. D.
Section means and	extremes	.....	..	36.3	+ 4.2	76	10	3	13	44	1.46	−0.63	1.13	3.4	4	13	7	8	ne.	
Northwest Plateau.																				
Avalon	Livingston	730	24	33.4	+ 4.6	72	21	1	13	35	0.98	−1.19	0.60	3.5	3	16^{a}	9^{a}	2^{a}	nw.	F. G. Ashbaugh
Bethany	Harrison	916	30	31.4	+ 5.2	75	21	−5	13	44	1.79	+0.23	1.10	2.7	5	16	7	5	nw.	M. H. Moulton
Chillicothe	Livingston	779	13	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	Wm. J. Olenhouse
Conception	Nodaway	980	37	29.8	+ 3.4	75	21	−5	13	42	1.33	+0.07	0.96	0.5	4	17	7	4	w.	Fr. Adelhelm Hess
Edgerton	Platte	856	9	32.4^{e}	......	76	21	1	12	43	1.85	+0.15	1.65	T.	3	18	1	9	s.	Fred L. Stiff
Grant City	Worth	1,134	30	32.4	+ 5.8	75	21	−4	13	42	1.05	−0.08	1.00	0.5	3	17	6	5	ne.	B. F. Locke
Kansas City	Jackson	963	32	33.3	+ 3.4	73	21	1	13	39	1.49	−0.62	0.97	5.6	4	16	5	7	n.	U. S. Weather Bureau
Kidder	Caldwell	1,020	34	28.6	+ 1.9	73	21	0	13†	47	2.01	+0.58	1.20	1.5	4	13	5	10	nw.	Linn Terry
Lexington	Lafayette	688	39	35.0	+ 5.6	72	21	3	13	35	1.60	−0.40	0.64	5 0	5	18	4	6	ne.	Edwin G Loomis
Liberty	Clay	859	31	35 0	+ 5.6	75	21	0	13	46	1.65	−0.29	1.03	5.8	6	15	7	6	sw.	James H. Harris
Maryville	Nodaway	1,109	27	29.7	+ 6.4	74	21	−3	13	40	1.26	−0.24	0 95	0.5	4	21	3	4	nw.	J. R. Brink
Oregon	Holt	1,048	66	30.0	+ 2.0	74	21	−4	13	40	1.00	−0.70	0.95	T.	2	16	7	5	nw.	Tom Curry
St. Joseph	Buchanan	967	49	31.2	+ 1.4	74	21	0	13	39	1.58	+0.24	1.39	0.9	5	16	8	4	nw.	U. S Weather Bureau
Tarkio	Atchison	916	28	28.4	+ 1.6	72	21	−5	13	38	1.47	+0.41	1.15	T.	3	17	5	6	nw	Albert Volker
Trenton	Grundy	822	26	31.0	+ 3.3	68	21	0	13	43	1.46	−0.22	0.89	T	5	16	9	3	n.	W. H. Estes
Section means and	extremes	.....	..	31.5	+ 3.9	76	21	−5	13	47	1.47	−0.16	1.65	1.9	5	17	6	5	nw.	
State means and	extremes	.....	..	35.4	+ 4.1	80	10†	−5	13	56	1.79	−0.44	1.65	1.9	5	14	6	8	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean. Anderson: of Gano. Salem, R. F. D. No. 5.

Daily Precipitation for February, 1922.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	.08																					.66				T.	.28	.04				1.06
Brunswick‖	Grand	.18																				.20		.55				.25	.35				1.53
Clifton Hill	Chariton	.13																				.27	.20	.40			.22	.03	.07				1.32
Columbia***	Missouri	.19			T.																T.		.54	.04	T.		.17	.07	.22				1.23
Downing	Mississippi	.20																	.16			.18	.06	.63			.18	T.					1.41
Fayette‖	Missouri																				T.	T.	.57				T.	.16	.54				1.27
Fulton	do	.20						T.													.06			.57			.12	.03	.12				1.10
Gorin	Mississippi																																
Hannibal***	do	.29			T.		T.		T.				T.						T.			.30	.32	.04			.08	T.	.15				1.18
Hermann‖	Missouri	.45						T												.04				.55				.08	T.				1.12
Jefferson City‖	do	.10						T.																1.00				.03	.10				1.23
Kirksville	Mississippi																		.05				.33	.41			.20						0.99
Louisiana	do	.48					T.	.01		.35			.02									.01		.30			.03	.10	.02				1.32
Macon ‖	Chariton	.42																				.51		.56				.38	.20				2.07
Mexico ‖	Mississippi	.25					T.	.02												T.	T.			.45			T.	.17	.14				1.03
Pacific‖	Meramec	.42				.03														.12		.04		.49			.05	.08	.03				1.26
Palmyra‖	Mississippi	.56																				.69		.36	T.		T.						1.61
St. Catherine	Grand	.18																	T.			.08	.48	.32			.14						1.20
St Charles	Missouri	.29											T						T.	T.	T.			.50				.03	.02				0.84
St. Louis (1)***	Mississippi	.31			.01		T.		.02				T.						.04		.01		.31	.18	T.		.13		.51				1.52
St. Louis (2)	do	.30			.02				.01				T.						.02	T.	T		.32	.18			.05		.27				1.17
Shelbina	do	.40																				.55		.40	T.		T.						1.35
Steffenville	do	.25										.25							T.			.40		.25			.15	.07					1.37
Union‖	Meramec	.53						T.												.08	.03			.72			T.	.11	.02				1.49
Unionville‖	Chariton	.15																	.10			.12	.70				.25	.15					1.47
Valley Park‖	Meramec	.44				.01														.07		.05		.67			T.	.13	.01				1.38
Warrenton ‖	Mississippi	.48				T.		T.												.02		T.		.59			T.	.14	.05				1.28
Keokuk, Ia.***	do	.37			T.	T.	T.						T.						.11			.44	.42	.04	T.		.18		T.				1.56
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi	.60	.14				.21													.08	.07	.60		.42				.04					2.46
Caruthersville	do	.43				.05	.15				T	T.	T.		T	.15			.29	.07	1.03			.53		.05	.25		.22				3.22
Doniphan	Black	1.34					.45												T.	.34	.70			.67		.10	.25	.15	.25				4.25
Jackson	Mississippi	1.33				.25	.02													.20				.42			.07	.07					2.36
Marble Hill.	do	1.65																			.88			.47			.12		.12				3.24
New Madrid‖	do	.25	.42			.01	.40						.02			.03				.20	.20	.95		.60			.05	.25					3.38
Parma	do		.54			.13															.96			.66		.03	.19		.12				2.63
Patton (near)	do	1.00																			.75			.40			.10						2.25
Poplar Bluff ‖	Black	1.40				.40	.35												.28	.65	.72		.45			.03							4.28
Vanduser	Mississippi	.89				.33													.10		1.30		.43			.16	.06		.56				3.83
Cairo, Ill.***	do	.53			T.	.28			T	T.		T.	T.		T.				.10	.11	1.02			.37		T.	.09	.01	.30				2.81
Ozark Plateau.																																	
Arcadia ‖	St. Francis	.91				.01		T.					T.							T.	.03	.34		.51				.11	T.				1.91
Birchtree	Gasconade	.66																			1.14					.05	.21		.12				2.18
Bolivar	Black	.11																			.13		.13	.85			.10		.27				1.59
Dean	Osage	.19																		.81			.47	.62		.06			.35				2.50
Eldon	Neosho																				T.			.71			.11	.04					0.86
Farmington	Osage	.98				T.		T.		.02											.20			.45			.13		.14				1.92
Gano	St. Francis	.47																			.12	T.	T.	1.13			.11	T.	.30				2.13
Goodland	Meramec	1.48																			.20						.67		.09				2.44
Hollister	Black	.60																			.50			1.05					.10				2.25
Houston	White	.98				T.																.77			1.22		T.	T.	.18				3.15
Jerome	Gasconade	.70	T.																	T.		.05		1.10			T.	.10	T.				1.95
Koshkonong	Black	1.35			.01																1.65					.13	.35		T.				3.49
Lebanon ‖	Osage	.35				.30															.09	.13		1.05					.09				2.01
Lockwood	do																				.23		1.12						.28				1.63
Mountain Grove‖	White	.57																		.58	.08			1.38									2.61
Neosho	Neosho	.07																			.65		37	.72				T.	.20				2.01
Rolla‖	Meramec	.62				T.																		1.28			T	.08	T.				1.98
Seligman	Barry	.21																					.58	.66		.15	.01		.36				1.97
Seymour	White	.18				T.															.79			1.20		T.	.08	T.	.38				2.63
Springfield***	do	.12																		T.	.47		.98	.02			.03	.01	.39				2.02
Steelville‖	Meramec	.35																		.04	.07			1.23			.02	.05					1.76
Tuscumbia ‖	Osage	.24																		T.	.05			.80			.04	.13	.03				1.29
Southwest Plain.																																	
Amoret	Osage																						.52	.08			.21	.04	.24				1.09
Appleton City	do	T.																					**	.59	T.		.21	.01	.12				0.93
Clinton	do																						.78	.33			.40	.05	.38				1.94
Harrisonville‖	do	.04																						.68				.22	.35				1.29
Lamar ‖	Neosho	.48																			.21			.89				.07					1.65
Lamonte	Missouri																						.55	.12			.32		.28				1.27
Marshall	do	.14																				.15	T.	.65			.38		.15				1.47
Nevada	Osage																						.73						.35				1.08
Osceola‖	do																							.79			.04		.15				0.98
Warsaw	Osage	T.																	T.		T.		.15	1.13			.28	.23	.65				2.44
Waverly ‖	Missouri	.14																				T.	T.	.67			T.	.22	.13				1.16
Northwest Plateau.																																	
Avalon	Grand																						.60				.18		.20				0.98
Bethany	do	.25																	.07			T.	1.10	.12			.25						1.79
Chillicothe ‖	do																																
Conception	Missouri	.18																	.11				.96	T.			.08						1.33
Edgerton	Grand	.09																					1.65	T.			.11						1.85
Grant City	do																						1.00				.03	.02					1.05
Kansas City***	Missouri																					T.	.97	T.	T.		.18	.17	.17				1.49
Kidder ‡	Grand	.29																						1.20			.38		.14				2.01
Lexington ‖	Missouri	.15																				.20		.64				.45	.16				1.60
Liberty	do	.06																				.11	1.03	.07			.24		.14				1.65
Maryville ‖	do	.16																	.07				.95				.08						1.26
Oregon	do												T						T.				.95	T.	T.		.05		T.				1.00
St. Joseph***	do	.01											T.						T			.03	1.39	T.	T.		.08	T.	.07				1.58
Tarkio	do	.24																	.08				1.15	T.			T.						1.47
Trenton	Grand	.14																	.03			.16	.89	T.			.24						1.46

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for February, 1922.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	53	38	37	50	48	27	38	63	52	63	40	30	30	42	31	39	61	..	60	46	77	79	25	31	42	35	25	16	..	..	..	[a]43.6
	Minimum	31	21	20	20	22	20	10	11	28	30	22	23	3	3	15	9	10	31	36	28	30	38	21	12	18	22	24	6	..	..	..	20.1
Columbia	Maximum	52	38	35	45	47	30	37	56	55	67	38	34	26	31	30	34	56	58	57	41	74	74	53	31	40	36	34	17	..	..	..	43.9
	Minimum	28	21	23	25	30	16	12	29	34	35	26	17	7	23	18	11	31	38	37	31	39	53	19	18	24	30	12	7	..	..	..	24.8
Fayette§§	Maximum	46	33	31	42	43	25	33	52	49	60	36	28	23	32	25	31	52	56	53	39	70	70	33	27	37	31	29	11	..	..	..	39.2
	Minimum	22	17	15	15	22	8	6	22	25	24	20	10	1	18	12	5	28	29	30	26	35	33	13	13	17	23	8	2	..	..	..	17.8
Hannibal	Maximum	55	36	35	44	47	32	34	51	53	64	36	32	24	38	26	27	55	55	56	46	72	74	52	30	38	35	32	19	..	..	..	42.8
	Minimum	27	22	24	25	31	11	11	25	33	30	23	14	4	19	15	10	26	38	33	29	36	52	19	16	23	29	13	8	..	..	..	23.1
Jefferson City §§	Maximum	55	41	41	47	49	33	40	54	60	75	53	50	38	40	35	42	75	57	58	66	65	60	37	40	38	45	37	34	..	..	..	48.8
	Minimum	37	22	20	20	29	25	11	26	30	33	28	29	9	13	20	11	19	19	40	32	38	52	26	18	19	25	30	9	..	..	..	24.6
Kirksville	Maximum	48	35	35	45	48	38	35	52	48	65	52	33	25	40	41	30	54	50	54	44	69	70	53	28	40	38	31	16	..	..	..	43.5
	Minimum	25	17	18	20	17	10	7	22	33	26	16	21	−1	11	11	3	22	33	33	23	31	52	19	13	16	26	14	0	..	..	..	19.2
Louisiana	Maximum	55	52	46	44	48	42	30	46	55	58	60	40	38	32	35	26	46	55	56	60	56	72	70	55	45	40	36	30	..	..	..	47.4
	Minimum	40	22	24	22	32	28	12	22	36	28	25	28	8	18	18	10	23	36	40	28	38	54	28	18	22	24	28	10	..	..	..	25.8
Macon §§	Maximum	51	35	34	46	46	25	33	55	50	62	36	31	24	40	27	35	54	58	66	47	71	69	25	30	38	34	23	16	..	..	..	41.5
	Minimum	28	18	18	19	25	21	9	9	32	29	19	19	0	0	12	5	5	33	32	25	27	35	21	15	16	20	21	2	..	..	..	18.4
Mexico §§	Maximum	54	37	37	48	49	31	36	52	52	51	38	36	25	34	28	34	55	60	59	42	74	74	30	31	40	37	33	19	..	..	..	42.7
	Minimum	32	19	21	23	25	26	9	10	28	28	24	23	4	5	16	8	10	32	36	28	29	37	23	16	18	25	29	5	..	..	..	21.0
St. Catherine	Maximum	48	35	35	47	49	42	36	54	49	62	57	33	25	40	36	32	54	55	54	50	69	65	55	28	40	34	31	17	..	..	..	44.1
	Minimum	33	17	17	27	23	17	5	31	30	29	18	20	−2	14	12	3	23	36	33	24	33	52	13	13	15	23	14	0	..	..	..	20.5
St. Louis (1)	Maximum	55	40	40	38	44	40	35	48	62	68	44	38	27	34	32	29	51	48	62	45	71	74	53	32	40	36	36	28	..	..	..	44.6
	Minimum	36	27	29	28	36	19	12	28	40	39	31	24	14	23	20	13	24	42	39	34	40	53	22	20	28	31	20	15	..	..	..	28.1
Unionville	Maximum	48	34	35	48	45	40	35	54	50	64	50	32	26	40	36	30	56	50	52	48	68	65	53	28	38	36	33	20	..	..	..	43.4
	Minimum	28	16	15	20	23	12	5	23	30	26	14	16	−4	6	8	1	23	33	35	23	30	50	16	12	15	20	12	0	..	..	..	18.1
Warrenton §§	Maximum	53	39	38	41	42	33	36	50	60	71	39	35	31	31	30	34	54	53	59	41	74	71	31	35	44	37	32	20	..	..	..	43.4
	Minimum	30	24	22	22	23	24	9	11	24	34	27	28	9	8	20	10	10	30	40	31	31	40	29	18	18	23	30	9	..	..	..	22.6
Southeast Lowlands.																																	
Caruthersville	Maximum	75	54	57	51	54	49	42	54	63	72	65	65	47	36	45	45	55	54	55	65	80	72	70	49	42	45	45	45	..	..	..	55.4
	Minimum	49	35	31	35	42	32	21	23	37	45	46	47	28	26	29	20	26	39	42	44	47	46	49	28	30	36	39	30	..	..	..	35.8
Doniphan	Maximum	55	55	50	45	50	41	37	45	65	73	69	50	43	36	41	37	52	54	73	62	61	68	67	46	37	38	43	41	..	.	..	51.2
	Minimum	42	32	25	20	30	26	17	21	38	35	42	41	22	21	32	15	27	41	41	41	43	46	43	22	26	33	37	24	..	..	..	31.5
Jackson	Maximum	49	49	53	41	50	43	38	55	65	69	63	63	45	33	38	34	49	47	70	62	62	73	68	46	40	40	40	40	..	..	..	50.9
	Minimum	32	29	21	23	36	27	13	20	37	32	35	40	20	20	27	10	23	33	43	39	43	47	44	23	25	35	35	21	..	..	..	29.8
Poplar Bluff	Maximum	55	50	54	42	48	42	40	47	60	59	73	53	41	35	42	41	53	52	70	60	63	70	69	..	43	..	43	..	..	..	..	[c]52.2
	Minimum	44	34	28	30	40	29	17	22	39	38	39	39	23	20	30	18	27	43	47	41	44	49	42	..	24	..	33	..	..	..	..	[c]33.7
Cairo, Ill.	Maximum	54	45	49	41	48	38	32	43	59	68	60	58	33	36	38	32	46	53	66	52	71	72	68	38	39	40	41	36	..	..	..	48.4
	Minimum	44	35	32	34	37	26	14	24	41	47	41	33	23	24	24	17	25	40	51	41	45	59	30	24	29	36	33	26	..	..	..	33 4
Ozark Plateau.																																	
Arcadia §§	Maximum	56	48	47	42	50	40	40	46	68	74	52	47	36	32	35	39	50	52	68	45	61	70	45	37	39	38	37	25	..	..	..	47.1
	Minimum	23	28	24	19	23	25	10	10	24	31	35	35	15	15	20	12	13	21	34	39	37	42	37	19	20	24	33	16	..	..	..	24.4
Birchtree	Maximum	60	51	48	46	41	..	38	40	68	78	66	48	42	34	37	41	53	63	71	62	61	71	63	41	41	37	39	33	..	..	..	[a]50.9
	Minimum	40	26	19	36	26	..	14	13	37	40	31	36	16	17	26	11	26	39	41	38	41	54	31	14	25	31	33	18	..	..	..	[a]29.1
Eldon	Maximum	54	40	40	40	47	38	40	55	55	70	70	35	30	35	30	40	56	60	60	45	74	73	57	37	41	37	37	20	..	..	..	47.0
	Minimum	33	17	16	17	21	18	8	19	28	22	22	20	3	14	15	6	25	30	35	27	33	50	16	12	17	23	13	2	..	..	..	20.1
Farmington	Maximum	54	49	42	39	44	39	36	47	65	70	62	40	36	32	31	35	53	53	62	51	66	72	63	35	41	39	36	32	..	..	..	47.4
	Minimum	41	28	26	22	34	27	10	21	37	34	32	32	15	17	25	12	23	37	40	38	40	58	31	20	30	25	25	16	..	..	..	28.4
Hollister	Maximum	65	65	60	55	55	45	50	56	71	80	73	60	55	50	45	40	45	70	72	63	71	70	56	48	60	60	50	45	..	..	..	58.5
	Minimum	45	26	20	20	25	20	15	18	42	32	40	32	19	22	15	10	20	30	35	42	45	40	30	30	20	32	31	20	..	..	..	27.8
Koshkonong	Maximum	63	48	51	41	49	41	40	49	69	78	65	49	41	..	41	40	55	55	73	62	62	68	65	43	36	37	39	37	..	..	..	[a]51.7
	Minimum	44	30	26	26	38	29	17	22	37	45	44	40	19	..	20	19	15	39	47	40	43	55	37	20	27	30	34	21	..	..	..	[a]32 0
Lebanon §§	Maximum	45	42	42	45	48	31	40	51	56	74	54	38	34	36	33	42	52	65	62	48	71	70	34	42	41	45	40	34	..	..	..	47.0
	Minimum	30	22	22	24	27	22	11	11	25	35	30	28	10	10	18	9	12	30	40	37	36	46	26	15	17	24	22	30	..	..	..	23.9
Mountain Grove §§	Maximum	43	43	41	42	44	35	36	42	67	72	58	41	34	33	31	35	53	56	53	44	53	68	36	38	39	42	35	19	..	..	..	44.1
	Minimum	32	24	25	29	34	25	12	15	22	33	35	32	13	15	15	11	13	27	38	39	39	42	32	16	17	32	31	15	..	..	..	25.5
Neosho	Maximum	55	53	47	49	50	47	41	51	65	76	75	58	39	39	39	46	56	69	69	74	74	71	56	40	40	45	45	30	..	..	..	53.5
	Minimum	46	24	18	21	24	20	12	26	46	39	36	28	14	21	22	11	37	35	37	43	51	54	23	19	30	33	27	13	..	..	..	28.9
Rolla §§	Maximum	55	42	41	43	42	34	40	50	65	75	49	38	32	34	32	40	55	61	61	46	72	71	34	36	42	38	34	19	..	..	..	45.8
	Minimum	31	25	23	21	27	15	11	11	26	26	31	31	12	12	19	11	11	32	43	37	36	46	31	18	18	24	32	13	..	..	..	24 0
Springfield	Maximum	53	41	41	45	45	36	37	53	64	73	61	51	37	35	32	40	53	63	60	53	70	69	49	39	39	38	36	18	..	..	..	47.5
	Minimum	32	23	28	28	34	21	14	28	44	49	34	21	12	23	21	17	32	41	47	41	46	49	20	17	28	32	18	13	..	..	..	29.0
Southwest Plain.																																	
Amoret	Maximum	52	42	42	55	50	42	42	55	61	75	50	36	28	37	32	48	57	64	60	48	72	69	52	33	40	33	34	15	..	..	..	47.3
	Minimum	34	19	20	20	22	18	9	26	34	33	22	20	4	20	17	10	32	32	34	33	39	52	16	15	20	29	15	6	..	..	..	23.2
Appleton City	Maximum	53	42	42	50	48	41	39	54	62	74	63	37	30	35	35	45	54	62	61	53	72	70	56	34	41	38	36	19	..	..	..	48.1
	Minimum	41	22	24	25	26	23	13	28	37	38	27	24	8	23	20	15	35	37	42	35	40	56	20	18	23	32	19	9	..	..	..	27.1
Clinton	Maximum	53	42	47	50	50	45	37	55	60	60	62	37	30	35	35	44	55	62	65	61	72	74	56	34	43	35	31	13	..	..	..	48.1
	Minimum	42	23	25	25	28	23	14	28	38	28	29	25	7	19	20	14	35	35	35	45	45	50	22	18	23	30	21	8	..	..	..	27.0
Harrisonville §§	Maximum	51	41	40	49	53	31	34	55	60	73	32	33	26	37	35	38	56	65	61	41	73	63	20	31	40	27	26	13	..	..	..	43 0
	Minimum	31	21	22	22	23	20	10	11	32	35	23	29	3	5	16	13	13	36	33	31	32	43	18	16	18	21	26	6	..	..	..	21.8
Lamar §§	Maximum	54	43	45	55	53	35	42	56	68	76	51	38	37	40	40	50	57	70	65	70	75	70	33	39	46	42	34	24	..	..	..	50.3
	Minimum	34	20	21	23	26	25	12	14	33	39	28	24	9	20	20	14	34	35	48	40	56	54	19	17	17	29	30	9	..	..	..	26.8
Lamonte	Maximum	51	40	39	51	49	35	40	56	56	68	47	32	28	36	32	41	55	65	58	46	74	74	54	33	43	35	34	19	..	..	..	46.1
	Minimum	37	21	20	22	24	19	11	28	34	32	24	20	5	23	16	11	29	33	37	31	37	53	18	17	21	27	17	6	..	..	..	24.0
Marshall	Maximum	48	40	35	49	..	41	35	55	53	63	60	51	27	38	36	36	58	62	58	50	72	66	56	32	40	36	34	19	..	..	..	[a]46.3
	Minimum	38	21	19	19	..	11	10	24	34	30	27	12	4	20	16	27	28	35	32	29	40	54	20	12	21	27	19	7	..	..	..	[a]23 6
Nevada	Maximum	52	42	43	53	48	43	41	56	62	74	47	39	31	33	32	44	56	55	61	51	73	71	54	34	40	40	34	19	..	..	..	47.4
	Minimum	40	22	24	28	27	22	13	29	38	42	27	24	8	24	16	15	35	36	33	37	42	53	19	17	23	33	18	9	..	..	..	26.9
Warrensburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warsaw	Maximum	53	45	40	48	48	45	40	55	60	71	64	40	33	37	35	43	56	63	61	60	73	73	58	36	44	39	38	21	..	..	..	49.2
	Minimum	42	23	23	17	25	23	12	27	38	30	27	25	8	30	27	8	35	33	38	36	40	57	22	18	23	31	20	9	..	..	..	26.7
Northwest Plateau.																																	
Chillicothe	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Grant City	Maximum	46	36	38	50	49	41	41	59	54	62	45	34	25	42	35	36	63	60	56	50	75	72	56	32	42	41	36	19	..	..	..	46.2
	Minimum	22	16	14	20	21	9	5	25	26	29	13	15	−4	12	7	6	27	33	42	22	33	51	12	11	11	26	12	1	..	..	..	18.5
Kansas City	Maximum	49	39	40	50	49	30	41	55	54	68	37	28	25	39	31	41	57	64	58	43	73	67	31	28	36	34	33	14	..	..	..	43.4
	Minimum	26	21	23	30	28	16	12	32	39	29	19	13	1	21	16	15	37	40	34	29	38	31	16	15	22	30	12	6	..	..	..	23.2
Kidder §§	Maximum	46	34	32	38	41	25	38	47	62	45	36	24	25	38	29	37	42	57	55	57	73	64	21	27	39	34	20	25	..	..	..	39.7
	Minimum	46	19	17	17	19	13	8	7	31	17	17	17	0	0	12	8	8	32	33	23	26	26	17	14	15	18	20	6	..	..	..	17.4
Lexington	Maximum	48	40	39	50	50	41	40	55	55	65	56	35	25	38	36	39	58	61	60	51	72	69	54	33	41	34	33	18	..	..	..	46.4
	Minimum	34	20	19	21	25	16	10	27	34	33	21	22	3	21	15	10	32	36	35	29	37	54	19	17	20	28	17	6	..	..	..	23.6
Maryville	Maximum	45	33	35	48	42	29	39	56	45	59	34	30	24	36	27	36	60	58	50	46	74	67	39	28	37	33	31	15	..	..	..	41.3
	Minimum	20	16	15	21	19	9	4	25	25	31	13	11	−3	13	8	9	29	33	35	23	31	39	11	12	14	26	12	3	..	..	..	18.1
Oregon	Maximum	47	34	36	48	43	36	39	55	50	60	35	32	24	36	28	40	49	56	50	47	74	69	36	36	35	34	32	16	..	..	..	42.0
	Minimum	18	16	15	22	19	8	4	30	27	32	12	11	−4	14	8	8	33	33	37	22	34	33	9	11	17	25	10	1	..	..	..	18.0
St. Joseph	Maximum	48	35	37	51	45	29	40	56	47	63	38	27	26	36	28	40	59	61	54	48	74	65	26	29	36	34	31	17	..	..	..	42.1
	Minimum	20	19	18	26	22	12	9	32	31	25	17	6	0	17	12	12	38	39	31	25	36	26	13	15	20	29	12	6	..	..	..	20.3
Trenton	Maximum	47	34	33	44	43	35	54	53	47	59	37	28	23	37	28	32	54	51	53	46	68	65	53	28	35	35	32	18	..	..	..	41.1
	Minimum	25	18	18	22	25	14	8	20	33	31	18	16	0	12	11	8	26	36	37	25	35	51	17	14	18	28	12	4	..	..	..	20.8

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

551.0
UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVI. COLUMBIA, MO., MARCH, 1922 No. 3.

GENERAL SUMMARY.

Mild and moderately cold spells alternated quite regularly during March. The outstanding feature was the abnormally heavy precipitation. Only one March (1898) has been wetter during 55 years. Most creeks and some of the smaller rivers were out of banks part of the time.

As a whole, the weather of the month was favorable for winter grains, spring pastures, and meadows. Winter wheat stooled well; some bottom lands were damaged by overflows. Fruit buds were healthy, with peach, pear, and plum trees in bloom in southern sections. Owing to saturated soil there practically was no plowing, or seeding of oats.

Overland traffic was unfavorably affected by flooded tracks, washouts, and slides. Country roads across the central parts of the State were almost impassable.

TEMPERATURE.

The monthly mean temperature for the State, based upon the records of 70 stations, was 45.6°. The mean departure from the normal for 68 stations having 10 or more years' record was plus 1.4°, and about 7° colder than March of last year. While most of the State was warmer than normal there were a few stations in the Chariton Valley, several in the extreme southwest, and 14 or 15 in the Ozark Plateau colder than normal. Cold and warm periods alternated quite regularly, the cold periods, however, lasting only two or three days. The lowest temperatures occurred during the first three days, largely the result of snow covered ground extending over from February. The warmest period prevailed from about the 17th to the 24th when day temperatures ranged from 70° to 80°. The average number of days with temperature of 32° or lower was 11.

PRECIPITATION.

The average precipitation for the State, 87 stations reporting, was 6.46 inches. The mean departure from the normal for 77 stations having 10 or more years' record was plus 3.38 inches. Only one March has been wetter, 7.09 inches, 1898, and one nearly as wet, 6.07 inches, 1897, during 55 years. The precipitation was excessive in all sections though somewhat less marked in the northern border section. Twenty-six stations received monthly amounts of from 7 to over 9 inches; from 10 to more than 13 inches fell at several stations. The greatest amount in any 24 consecutive hours was 4 inches, at Jefferson City on the 10th, and the next greatest was 3.88 inches, at Columbia on the 13-14th. The Grand, Osage, and Meramec Rivers went out of banks during the latter half of the month. There also was some flooding from the lower part of the Missouri River, and in the southeastern part of the State from the Mississippi River.

Snow was general on the 1st, and remained on ground to appreciable depths in all sections, except along the immediate southern border.

WIND.

The prevailing winds were from the south. The average movement, 8 stations equipped with anemometers reporting, was 9,009 miles, or about 13 per cent above normal. Winds of 35 miles an hour or more prevailed on the 4th, 5th, and 14th. In the Blue Valley, Jackson County, a miniature tornado developed during the afternoon of the 5th.

SUNSHINE AND CLOUDINESS.

There were only 11 clear days. The average number of hours of sunshine, 6 well selected stations equipped with sunshine recorders reporting, was 175. This is about 47 per cent of the possible, about 8 per cent below normal, and 12 per cent less than March, 1921.

MISCELLANEOUS PHENOMENA.

Earthquakes.---In Butler and New Madrid Counties thence north to St. Charles County on the 22nd, and 30th.

Fogs, dense.---19th, 27th, and 30th.

Hail.---on the 10th, 13th, 14th, 19th, 23rd, 24th, and 25th.

Halos, Lunar.---8th, and 12th.

Halos, Solar.---16th, 17th, 18th, and 27th.

Sleet.---1st, 7th, 10th, 25th, 28th, 29th, and 31st.

Thunderstorms, more or less general.---10th, 13th, 14th, 18th, 19th, 23rd, 24th, and 25th.

SPECIAL STORM NOTES.

March 5.---A miniature tornado developed about 4.45 p.m. in the Blue Valley district, about 5 miles east of the business center of Kansas City. It broke 37 trolley poles of the Independence street car line, damaged the electric light system and some other property, but no persons were injured.

March 10.---Thunderstorm with hail at Warrenton, and Eldon.

March 13.---Thunderstorm with hail at Nevada.

March 13-15.---Excessive rains in Boone County caused Hinkson Creek and the Perche River to flood and overrun much of the lower lands south of Columbia The M. K. & T. R. R. track was under water, and trains were delayed by washouts and slides. Six valuable beef cattle, owned by one George Sandker were drowned.

March 14.---Strong wind at Brunswick, and hail at Gano.

March 19 and 23.---Hail at Arcadia and Seymour.

March 23.---A severe thunderstorm prevailed from about 9 p.m. to 11 p.m. at Kansas City. Hail fell in the southern part of the city, being particularly heavy in the Country Club, Marlboro and Swope Park districts where the stones were from hazel nuts to walnuts in size. Greenhouses suffered the most. The greatest individual loss was about $2,000; other losses were from $100 to $500.

March 23 and 24.---Hail at Warsaw.

March.---Strong wind at Brunswick. Trees were blown down and some roofs blown off. The telephone service was damaged to some extent.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	30.01	80	68	161	43	7,939	10.7	37	ne.	14
Hannibal	30.02	81	..	...	..	8,154	11.0	44	e.	14
Kansas City	30.02	78	67	207	56	9,957	13.4	44	ne.	14
St. Joseph	30 00	82	67	198	53	8,226	11.1	38	nw.	28
St. Louis	30 03	79	68	155	42	11,661	15.7	50	s.	5
Springfield	30.02	80	72	160	43	10,501	14.1	40	s.	4
Cairo, Ill	30.05	79	68	...	..	8,507	11.4	48	sw.	19
Keokuk, Iowa	30.05	81	68	169	45	7,127	9.6	34	sw.	6

COMPARATIVE DATA FOR MARCH.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	38.5	−4.8	90	1	4.02	+1.11	.....	....	10	....	....	....
1889	44.3	+1.0	84	13	1.98	−0.93	.....	....	5	....	....	....
1890	37.3	−6.0	76	−11	2.61	−0.30	.....	5.7	8	....	....	....
1891	36.6	−6.7	78	−11	3.01	+0.10	.....	7.1	10	....	....	....
1892	38.9	−4.4	87	5	3.11	+0.20	.....	....	8	8	10	13
1893	40.5	−2.8	86	1	2.86	−0.05	2.15	3.2	7	11	10	10
1894	47.7	+4.4	89	2	2.93	+0.02	3.20	0.2	6	15	9	7
1895	42.4	−0.9	98	0	2.14	−0.77	3.00	4 4	9	14	7	10
1896	39.2	−3.9	82	2	2.05	−0.86	4.47	5.2	8	11	9	11
1897	44.2	+0.9	93	− 5	6.07	+3.16	4.10	1.0	12	9	9	13
1898	44.7	+1.4	83	9	7.09	+4.18	3.87	0.6	11	11	7	13
1899	37.4	−4.1	78	− 8	2.93	+0.02	4.30	8.9	6	9	11	11
1900	40.4	−1.9	88	− 4	1.48	−1.43	3.41	0.2	6	15	9	7
1901	42.7	−0.6	85	− 1	3.74	+0 83	3.21	1.8	8	11	8	12
1902	45.3	+2.0	85	1	3.49	+0.58	5.60	0.8	9	10	10	11
1903	46.8	+3.5	81	9	3.35	+0.44	6.19	1.1	8	13	7	11
1904	44.8	+1.5	87	8	4.14	+1.23	7.50	1.2	9	11	9	11
1905	50.3	+7.0	88	10	2.99	+0.08	2.67	T.	8	11	8	12
1906	34.6	−8.7	75	− 5	3.93	+1.02	3.00	8.6	11	6	7	18
1907	53.9	+10.6	95	16	2.82	−0.09	3.08	1.0	7	14	7	10
1908	50.1	+6.8	89	14	2.58	−0.33	2.55	1.0	7	14	7	10
1909	44.5	+1.2	81	9	3.07	+0.16	3 30	0.6	6	13	9	9
1910	55.8	+12.5	96	15	0.66	−2.25	2.25	0.1	2	20	7	4
1911	46.8	+3.5	91	5	1.85	−1.06	2.00	1.4	6	16	8	7
1912	35.2	−8.1	89	− 4	4.62	+1.71	2.85	16.5	11	12	6	13
1913	40.6	−3.7	84	−12	4.36	+1.31	7.97	5.0	9	12	8	11
1914	43.2	−1.3	87	− 2	2.75	−0.41	3.01	4.7	8	13	7	11
1915	36.4	−8.1	70	6	1.50	−1.74	1.85	7.9	6	7	8	16
1916	47.0	+1.3	95	− 2	2.53	−0.65	4.25	3.1	7	14	8	[illegible]
1917	45.2	+1.7	86	− 7	2.91	−0.42	4.08	1.5	7	15	7	9
1918	50.9	+7.8	95	8	0.94	−2.05	2.25	0.1	4	18	6	7
1919	46.3	+2.9	90	− 2	2.40	−0.69	5.37	0.7	6	15	8	8
1920	44.6	+1.4	86	− 6	5.01	+2.09	6.00	1.4	8	15	6	10
1921	51.9	+8.5	90	11	4.69	+1.68	2.88	0.5	10	13	9	9
1922	45.6	+1.4	80	3	6.46	+3.38	4.00	2.2	12	11	6	14
....	.....	....	....	......	.....	....	.....	....	......	....	....	....
....	.....	....	....	......	.....	....	.....	....	......	....	....	....
....	.....	....	....	......	.....	....	.....	....	......	....	....	....

Climatological Data for March, 1922.

				Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.					
Stations.	Counties.	Elevation, feet.	Length of record, years.	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Northeast Plain.																				
Brunswick	Chariton	652	42	44.0	+ 2.9	78	23	7	1	44	4.75	+2.27	1.78	2.2	12	12	0	19	se.	O. K. Benecke
Clifton Hill	Randolph	731	22	44.2	+ 3.6	75	23	12	1†	37	5.04	+2.42	1.57	2.3	10	9	6	16	....	Dr. A J. Bradsher
Columbia	Boone	748	31	44.7	+ 1.7	74	23	11	3	38	8.46	+5.43	3.88	2.4	14	5	6	20	se.	U S. Weather Bureau
Downing	Schuyler	878	11	41.4	......	66	23†	10	1	30	1.45	—0.95	0.36	1.5	11	12	3	16	n.	E. E. St. Clair
Fayette††	Howard	661	38	40.4^e	— 1.3	72	23	4	3	40	6.74	+4.09	2.20	....	8	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	29	44.4	+ 0.6	69	23†	7	3	35	8.81	+5.90	3.65	2.6	15	8	11	12	se.	Westminster College
Hannibal	Marion	534	37	43.7	+ 2.1	75	23	15	3	29	6.25	+3.49	2.34	7.1	12	8	5	18	nw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	45.0	+ 1.8	75	23	10	1	45	11.51	+8.69	4.00	3.5	13	13	1	17	s.	Miss Emma Swift
Kirksville	Adair	969	39	40.4	+ 1.8	78	23	9	3	47	3.08	+0.37	1.10	1 3	7	15	2	14	ne.	Prof. J. S. Stokes
Louisiana	Pike	469	40	45.4	+ 3.1	73	23†	5	3	33	6.39	+3.72	2.80	7.1	13	12^a	4^a	14^a	s.	J. T. Farrell
Macon	Macon	875	28	41.5	— 0.7	75	23	4	1	41	5.66	+3.14	2.05	1.5	13	8	8	15	se.	W. C. Brown
Mexico	Audrain	800	43	42.6	+ 1.3	75	23	10	3	41	8.58	+5.91	3.30	5.5	14	14	3	14	se.	Mrs. Abbie Snoddy
Palmyra ††	Marion	652	22	42.6^a	+ 3.2	75	23	7	1	45	5.80	+2.89	1.87	9.2	10	10^a	4^a	16^a	se.	W. B. Markell
St. Catherine	Linn	800	12	42.2	— 0.3	72	23	10	1	35	3.82	......	1.25	1.0	12	8	9	14	se.	L. D. Baker
St. Charles	St. Charles	456	43	45.4	+ 1.9	76	24	13	3	37	5.21	+2.07	1.87	5.0	11	10	7	14	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	46.2	+ 2.4	76	24	21	1	29	4.84	+1.41	1.77	5.2	13	8	6	17	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	45.2	+ 1.6	75	24	18	3	30	3.02	+0.07	0.74	2.7	16	8	6	17	e.	St. Louis University
Shelbina	Shelby	779	28	....	......	..	..	..	..	..	5.96	+3.34	2.00	3.3	9	..	..	..	......	S. G. Parsons
Steffenville	Lewis	650	28	43.0	+ 1 6	74	23	10	2	32	4.37	+1.45	1.17	2 0	13	12	3	16	s.	Frank Hall
Unionville	Putnam	1,062	28	41.4	+ 4.0	72	23	5	1	36	2.93	+0.62	0.85	4.0	9	7	7	17	n.	Geo. W. Davis
Warrenton	Warren	816	31	43.6	+ 2.1	72	24†	9	1	36	8.58	+5.29	2.67	6.0	13	12	4	15	se.	Prof. A. W. Eberling
Keokuk, Iowa	Lee, Ia.	574	49	42.8	+ 4.9	72	23	15	1	27	3.58	+1.21	0.94	2.9	13	7	6	18	n.	U. S Weather Bureau
Section means and	extremes	.....	..	43.3	+ 1.9	78	23	4	1†	47	5.67	+2.99	4.00	3 4	12	10	5	16	se.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	53.2	+2.0	80	24	24	2	44	13.29	+9.29	2.32	T.	12	11	2	18	e.	H. E. Averill
Doniphan	Ripley	344	17	48.5	−0.9	77	23	19	2	34	7.72	+4.13	1.52	0	13	11	5	15	s.	W.W. Martin
Jackson	Cape Girardeau	428	31	49.0	+1.8	75	23†	20	2	36	8.63	+4.29	1.54	2.0	14	7	3	21	s.	John G. Putz
Marble Hill	Bollinger	470	27	48.7	+1.3	79	25	20	2†	35	9.17	+4.99	1.65	0	11	10	8	13	s.	R.A. DeWitt
Parma	New Madrid	281	..	....	......	..	..	..	..	..	9.05	......	1.30	0	14	..	..	..	......	J.E. Pearce
Patton (near)	Bollinger	500	11	....	......	..	..	..	..	..	8.38	+4.32	1.11	2.5	13	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	329	17	53.2^a	+ 4.4	78	23	..	..	36	6.90	+2.48	1.40	0	11	7^d	11^d	9^d	s.	Rev. John H. Gallaher.
Vanduser	Scott	304	..	....	......	..	..	..	..	..	7.97	.....	1.59	0	12	19	0	12	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	49.2	+ 2.2	72	25	22	2	24	8.40	+4.38	2.66	T.	15	5	3	23	se.	U. S. Weather Bureau
Section means and	extremes	....	..	50.3	+ 1.8	80	24	19	2	44	8.83	+4.84	2.66	0.5	13	10	5	16	s.	
Ozark Plateau.																				
Arcadia	Iron	926	43	44.0	− 0.8	74	24	14	3†	44	7.08	+3.01	1.45	5.5	12	10	6	15	e.	Arcadia College
Birchtree	Shannon	1,000	28	46.1	− 1 3	75	23†	16	2	34	7.21	+2.96	1.50	1.0	12	13	5	13	s.	V. H. Kirkendall
Bolivar	Polk	1,071	32	46.5	+ 0.4	76	23	10	3	39	5.97	+2.92	1.29	T.	14	18	5	8	se.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	47.6	− 1.3	76	23	6	3	39	7.79	+4.44	2.29	0	12	16	5	10	se.	H. E. Dean
Eldon	Miller	934	22	41.0	− 2.5	75	23	8	3	48	7.52	+4.69	1.49	5.0	14	1	17	13	sw	E. H. Shepherd
Farmington	St. Francois	918	24	46.6	− 0.3	76	24	16	2	38	6.75	+3.48	1.34	4.0	13	9	10	12	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	44.5	− 2.4	75	24	10	1	41	7.95	+4.65	1.83	5.1	13	9	4	18	s	A. C. Leach
Goodland	Iron	1,000	28	45.8	+ 0.9	75	8†	8	3	57	7.35	+3.10	1.30	T.	12	11	8	12	s.	F. M Adams
Greenville	Wayne	381	..	....	.....	..	..	..	..	..	8 36	......	2.06	1.0	14	10	6	15	nw.	J. J. Amen.
Hollister	Taney	735	18	48.3	− 0.4	76	23	16	2	46	5.25	+2.02	2.00	0	7	13	5	13	se.	W. P. Chapmann
Houston	Texas	1,280	29	46.6	0.0	74	24	14	4	43	6.87	+2.74	1.48	T.	11	12	3	16	sw	Walter T. Beard
Koshkonong	Oregon	958	20	49.0	− 0.6	77	23	19	2	35	7.57	+3.76	1.40	0	12	11	6	14	se.	R. M. Hitt
Lebanon	Laclede	1,265	34	44.0	− 1.4	74	24	11	1†	41	6.75	+3.30	1.13	6.8	16	7	4	20	sw.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	46.7	− 1.2	68	12†	12	1	32	5.85	+3.39	1.10	1.0	12	13	5	13	se.	C. S. Crow
Mountain Grove	Wright	1,463	25	43.2	− 2.8	72	24	15	1†	39	6.20	+1.86	1.36	2.5	12	8	4	19	se	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	47.8	− 0.4	76	23†	6	3	41	7.45	+3.98	1.36	1.0	12	14	6	11	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	44.4	− 0.6	74	24	13	1	42	6.98	+3.39	1.29	8.0	11	10	7	14	s	Prof. Elmo G. Harris
Seligman	Barry	1,542	15	47.0	+ 0.8	72	23	10	2	35	5 49	+1.55	1.41	T	13	12	9	10	sw.	Floyd E. Fawver
Seymour	Webster	1,642	16	47.0	+ 1.8	72	23	3	1	42	5.21	+1 15	1.04	T.	12	10	9	12	s.	Ira H. Hailey
Springfield	Greene	1,350	42	45.2	+ 1.7	73	23	13	1	36	6.45	+2.38	1.80	2.6	13	9	10	12	se.	U. S. Weather Bureau
Section maens and	extremes	.....	..	45.9	− 0.5	77	23	3	1	57	6.75	+3.09	2.29	2.2	12	11	7	13	se.	
Southwest Plain.																				
Amoret	Bates	831	15	44.3	+ 0.4	75	23	9	3	40	7.03	+4.53	2.05	1.0	13	11	5	15	nw.	Darby Fruit Farm
Appleton City	St. Clair	853	29	46.3	+ 1.7	75	23	12	1†	38	7.48	+4.41	2.35	2.8	15	14	6	11	se.	W. G Bigelow
Clinton	Henry	765	34	46.8	+ 2.5	76	24	12	1	42	5.68	+2.82	2.22	0	10	11	9	11	ne.	A. E. Derwent, M. D.
Harrisonville	Cass	904	46	42.3	+ 1.4	76	23	7	1	42	4.58	+1.89	0.81	3.5	9	5	6	20	ne.	John H. Patterson
Lamar	Barton	980	40	45.5	— 0 7	78	23	9	1†	43	8.22	+5.32	2.67	6.0	12	8	8	15	ne.	Joe W. Springer
Lamonte	Pettis	867	35	44.7	+ 1.0	76	23	9	3	43	7.04	+4.44	2.45	0.5	13	17	4	10	se.	J. E. Wheeler
Marshall	Saline	779	32	44 8^a	+ 2.3	77	23	11	1†	40	5.75	+3.04	1.60	2.0	11	16^d	3^d	8^d	se.	Dr W. H. Black
Nevada	Vernon	862	30	46.7	+ 2.4	75	23	12	1	43	8.26	+5.27	2.25	0	11	11	5	15	s.	George A. Kaupp
Warsaw	Benton	687	26	47.1	+ 0.2	76	23	8	3	41	9.49	+6.26	1.45	3.0	16	7	12	12	sw.	J. R. Smith, M. D.
Section means and	extremes	.....	..	45.4	+ 1.2	78	23	7	1	43	7.06	+4.22	2.67	2.1	13	11	7	13	se.	
Northwest Plateau.																				
Avalon	Livingston	730	24	43.3	+ 2.0	77	23	12	1	35	4.85	+1.97	2.60	T.	7	11	6	14	sw.	F. G. Ashbaugh
Bethany	Harrison	916	30	42.4	+ 3.5	72	23	3	1	42	3.10	+0.91	1.03	7.0	7	9	11	11	nw.	M. H. Moulton
Chillicothe	Livingston	779	13	41.4	+ 1.0	74	23	4	1†	41	4.51	+2.04	1.58	1.5	10	14	6	11	e.	Wm. J. Olenhouse
Conception	Nodaway	980	37	42.2	+ 3.8	70	17†	3	1	38	2.73	+1.03	1.10	4.5	8	8	12	11	se.	Fr. Adelhelm Hess
Edgerton	Platte	856	9	44.2^c	.....	78	23	9	1	41	4.01	+1.59	1.58	0.8	13	11	3	17	s.	Fred L. Stiff
Grant City	Worth	1,134	30	44.0	+ 4.1	70	17†	4	1	39	4.82	+2.87	1.68	1.3	7	14	6	11	s.	B. F. Locke
Kansas City	Jackson	963	32	45.0	+ 4.2	76	23	12	1	36	5.73	+2.91	2.69	1.1	14	12	6	13	se.	U. S. Weather Bureau
Kidder	Caldwell	1,020	34	41.0	+ 0.6	74	23	13	2	41	4.57	+2.34	1.36	6.0	8	10	6	15	nw.	Linn Terry
Lexington	Lafayette	688	39	45.4	+ 2.5	78	23	12	1	40	3.81	+1.44	1.85	0 7	9	13	5	13	ne.	Edwin G Loomis
Liberty	Clay	859	31	44.9	+ 2.8	78	23	11	1†	39	5.05	+2.50	1.96	1.6	12	12	7	12	sw.	James H. Harris
Maryville	Nodaway	1,169	27	42.3	+ 6.0	68	23	8	2	37	3.28	+1.39	1.22	5.0	10	13	3	15	n.	J. R. Brink
Oregon	Holt	1,048	66	41.9	+ 3.0	69	22	3	1	40	3 14	+1.11	0.73	4.0	9	15^a	3^a	12^a	s	Tom Curry
St. Joseph	Buchanan	967	49	43.6	+ 0.9	72	23	8	1	36	4.08	+2.07	1.01	0.5	11	11	6	14	nw.	U. S Weather Bureau
Tarkio	Atchison	916	28	41.2	+ 2 4	71	22	5	1	41	2.62	+0.90	1.46	5.0	9	13	5	13	s.	Albert Volker
Trenton	Grundy	822	26	42.2	+ 2.0	69	22	8	1	32	3.89	+1.65	1.40	2.0	11	12	8	11	n.	W. H. Estes
Section means and	extremes	.....	..	43.0	+ 2.8	78	23	3	1	42	4.01	+1.78	2 69	2.7	10	12	6	13	s.	
State means and	extremes	.....	..	45.6	+ 1.4	80	24	3	1	57	6.46	+3.38	4.00	2.2	12	11	6	11	se.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for March, 1922.

Stations.	Drainage-basins.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Northeast Plain.																																	
Boonville‡‖	Missouri	.08					.02	T.			.87	.06			2.75	.12				.24	.03				.95	T.	.81		.13	.09	.92	.30	7.37
Brunswick‡‖	Grand	.23						.02			.45	.07			1.78	.15				.20					.04	.06	.65		.84		.26		4.75
Clifton Hill	Chariton	.20						T			.47			.47	1.57					.05					.55	.55			.63	.08	.47	T.	5.04
Columbia***	Missouri	T.	T.				T.			.01	.57			2.06	1.98				.19	.02	T.			.03	.97	.92	.02		.20	.31	.83	.35	8.46
Downing	Mississippi	.09					T.				.36	.12			.22				.03	.07	T.				.06	.16	.02		.15		.17	T	1.45
Fayette‡‖	Missouri										.82			2.20					.40						1.00	.76			.49		.89	.18	6.74
Fulton	....do	.13					.01			.02	.52			.65	3.00					.40	.01				.38	.65	.62	T.	.25	.32	.80	1.05	8.81
Hannibal***	Mississippi	.19	T.				T.	T.			.66			.85	1.49				.18	.01	T.				.04	1.11		T.	.47	.10	.49	.66	6.25
Hermann‖	Missouri	.20					.12				.21	.20			2.05	.02				.11	.66				.13		1.05	.03	.03		.37	1.60	6.78
Jefferson City‡‖	....do	.26						.08			4.00	.06			2.53	.05				.48	.10				.75		.85		.05		1.20	1.10	11.51
Kirksville	Mississippi	.12					T.				.62			T.	1.10				T.	T.					.22	.41			.32		.29		3.08
Louisiana	....do	.04						T.			.30	.14			2.80				T.	.39	.03				.05	.03	.95	.01	.31		.64	.70	6.39
Macon ‡‖	Chariton	.21						T.			.58	.09			1.94	.31			.06	.38	.04					.32	.85		.58		.23	.07	5.66
Mexico ‡‖	Mississippi	.35					T.				.32				3.30	.05				.27	.05				1.20	.02	.80	.05	.30	.02	1.00	.85	8.58
Pacific‡‖	Meramec	.32		T.			.18	T.			.24	.01			1.82	.05				.16	.44				T.		.90	.07	T.	.03	.67	.58	5.47
Palmyra‡‖	Mississippi	.3									.63		.19		1.87	.27				.36	T					T.	1.12		.31	.03	.72		5.80
St. Catherine	Grand	.09	T.				.14	T.			.52			.22	1.25				.20	.25	T.				.17	.30			.60	03	.05		3.82
St Charles	Missouri	.35					T.			T.	.16	.45		.10	1.87	.18				.30	T.						.83		.02	T.	.85	.10	5.21
St Louis (1)***	Mississippi	.05	T.				.01	T.		.06	.26			.97	.84				.20	.62				T.		.14	.45	T.	T.	.14	.78	.32	4.84
St. Louis (2)	....do	.25					.03			.06	.07	.01		.74	.52				.06	.23					T.	.11	.17		T.	.05	.56	.16	3.02
Shelbina	....do	.26									.73				2.00						.37				.20	.16		.80	.41		1.03		5.96
Steffenville	....do	.15						T.			.30			.05	1.17				.05	.25	T.				.30	.50	.12		.60	.03	.80	.05	4.37
Union‡‖	Meramec	.30					.06				.28	.03			1.37	.10				.23	.18				.03		1.00	.04			.76	.86	5.24
Unionville	Chariton	.20					.08	T.			.30				.50				T.	.65					T.	.25			.45	.40	.10		2.93
Valley Park‡‖	Meramec	62	T.				T.	.03			.23	.01			1.80	.15				.15	.26				T.		.54	.06		T.	.48	.43	4.76
Warrenton ‡‖	Mississippi	.30		T			.09	T.			.20	.15			2.67	.11				.45	1.17				.04	T.	1.11	T.	.14	T.	.65	1.50	8.58
Keokuk, Ia.***	....do	.14	.02				T.	T.			.37			.17	.77				.37	.02					.17	.66		T.	.39	.30	.14	.06	3.58
Southeast Lowlands																																	
Cape Girardeau‡‖	Mississippi	.18						.09			.60	.05			.92	.99			.02	.85	.15						.30	.68	.03	.02	1.90	1.02	7.80
Caruthersville	....do	.75	T.	T.			.35			2.00	.70			.08	1.68				T.	.92							1.75	.20	T.	.28	2.32	2.26	13.29
Doniphan	Black	.25					.10			1.15	.06			.60	.45				.04	.80							1.52	.03	T.	.68	.89	1.15	7.72
Jackson	Mississippi	.40					.35			.67	.25			.27	.59	.42			43	.92							1.22	.08		.45	1.54	1.04	8.63
Marble Hill	....do						.45			.85	.26			.35	.37	1.32				1.00							1.65			.57	1.28	1.07	9.17
New Madrid‡‖	....do	.80	T.					.10		.02	1.30	.02			.26	1.05				1.75	.12						.57	.95	.02	.02	2.90	1.75	11.63
Parma	....do	.73					.05			1.10	.20			.19	1.16	.05				1.30							1.30	.30	.05	.20	1.30	1.12	9.05
Patton (near)	....do	.22					.30			.75	.20			.57	.55	.40				.90							1.10	.20		1.08	1.00	1.11	8.38
Poplar Bluff	Black	.52					.18			.80	.05			.50	.15					.58							1.40			.40	1.20	1.12	6 90
Vanduser	Mississippi						.17			.73	.13			.35	.63	.38				.83							1.33	.27		.38	1.59	1.18	7.97
Cairo, Ill.***	....do	.02	T.				.06	T.		.69	.02			.44	2.02	.01			.35	.85						.01	.80		.06	.28	2.41	.38	8.40
Ozark Plateau.																																	
Arcadia ‡‖	St. Francis	.47		T				.23			.79	T.	T.		.75	.18				.30	.45						.54	.68		.01	1.23	1.45	7.08
Birchtree	Gasconade	.24					.15			.90	.17			.32	18				.18	.70							1.50			.54	.98	1.35	7.21
Bolivar	Black	.11					.12			.55	.24			1.29	.05				.32	.22						.88	.22		.06	.68	.55	.68	5.97
Dean	Osage									2.29	.29			.40	.28				.51	.41						1.05	.48		.05	.31	1.52	.20	7.79
Eldon	Neosho	.50								.15	.20			1.49	.41				.25	1.40				.09	.60	.98	.10		.10	.73	.52		7.52
Farmington	Osage	.18					.12			.69	.09			.38	.34	.50				.64				T.			.87	.20	T.	.96	.44	1.34	6.75
Gano	St. Francis	.37					.06			.65	.12			.58	1.53				T.	.78				T.	.22	.08	1.24		T.	.67	.78	.87	7.95
Goodland	Meramec	.04					.53			.65	.13				.70	.25				.85					.10			1.30		.60	1.10	1.10	7.35
Greenville		.44					.38			.97	07			.48	.30			.02	.71		.14						.59	.77	.02		1.41	2.06	8.36
Hollister	Black									2.00	.30									1.00							1.00			.30	.35	.30	5.25
Houston	White									1.22	.16			.13	.62				.11	.45				T.		.25	1.33			.48	1.48	.64	6.87
Jerome	Gasconade	.40	.25				.07				.62	.08			1.10	.05				25	.12				1.10		1.40	.06		.05	1.10	1.00	7.65
Koshkonong	Black	T.					.13			1.39	.05			.23	.39				.53	.73							1.40		.05	.58	.87	1.22	7.57
Lebanon ‡‖	Osage	.90					.09	T.			.39	.05	.43	.09	.48	.05				.55	.30					.29	1.13	.05		.08	1.07	.80	6.75
Lockwood	....do	.10	T.				.23	T.		55	.09			.88	.24				.23							1.10	.24		T.	.75	.72	.72	5.85
Mountain Grove‡‖	White	.51					T.	T.		.72	T.	.18			.88	.12				.37	.33						1.36	.12		.21	.61	.79	6.20
Neosho	Neosho	.10					.15	T.		1.36				.53	.29				.49	.20					T.	.54	.95		T.	1.18	1.20	.46	7.45
Rolla	Meramec	.50	T.					T.			.66	T.			.85					.19	.11				1.29		1.23	.06	T.	.07	1.00	1.02	6.98
Seligman	Barry						.05			1.41	.09			.12	.18				.42	.27						1.36	.50		.04	.41	.50	.14	5.49
Seymour	White							T.		.60	.20			.29	.20				.10	.92				.34		.09	1.04		T.	.35	.60	.48	5.21
Springfield***	....do	T.	.02				.08			.60	.11	T.		.28	T.				.39	1.08				T.		1.75	.05		.03	.80	1.06	.20	6 45
Steelville‡‖	Meramec	.50					05				.65	.02			1.55	.02				.38	.31				.39		1.26	.07		.11	.73	.71	6.75
Tuscumbia ‡‖	Osage	.20					T.				.51	.35			1.52	.26				.73	.04				.67		1.06		T.	T.	1.38	1.45	8.17
Southwest Plain.																																	
Amoret	Osage	.10								.37	.68			1.00	2.05				.22	.21					1.04	1.01	.04		.09	.12	10		7.03
Appleton City	....do	.55	T.					.01		.12	.44	T.		1.07	2.35				26	.28					.57	.92	.10	T.	.03	.37	.32	.09	7.48
Clinton	....do										1.03			.09	2.22				.28					.15	1.07	.08	.02			.38	.36		5.68
Harrisonville‡‖	....do	.45									.63					.33				.26					.84	.42	.75		.40		.50		4.58
Lamar‖	Neosho	.44				.75					.55	04			2.67					.60						.14	1.49		.08	.04	.95	.47	8.22
Lamonte	Missouri								.18	.02				.90	2.45				.15	.05					1.07	.98	.06		.35	.25	.50	.08	7.04
Marshall	....do	.20						T		.32	.47			.75	1.60				.18	T					.55	.72	T.			.60	.24	.12	5.75
Nevada	Osage									.29	1.02			.64	2.25				.50	1.40					.17	.83			.31	.35		.50	8.26
Osceola‡‖	....do	.51					.10				51			T.	1.80					.98					.18		1.23				1.25	.48	7.07
Warsaw	Osage						.10	.05		.35	.48			.92	1.45				.25	.58				.18	1.28	.50	1.35		.10	.60	.55	.75	9.49
Waverly ‡‖	Missouri	.24	T.				.05	.02			.23	.56			2.02	.27				.16	T.				.22	.06	.55		.97		.34		5.69
Northwest Plateau.																																	
Avalon	Grand									.60				2.00	.60				.45	T.						.40			.50	.30			4.85
Bethany	....do							T.			.72			T.	.50				.61	.42					T.	.10		T.	.45	.30			3.10
Chillicothe ‡‖	....do	.15										.02			1.58	.60				.53						.06	.37		.47	.37	.36		4.51
Conception	Missouri	.23					T.				.20			T.	.13				1.10	.09					T.	.30			.32	.36			2.73
Edgerton	Grand	.03					.03	.01			1.01			.28	1.58				.41	.01					.12	.25			.14	.11	.03		4 01
Grant City	....do	.12									.68								1.30	.28						.38			1.68	.38			4.82
Kansas City***	Missouri	.02	T.				.01			.09	.99			1.50	1.20				.48	T.				.15	.04	.64		.02	.26	.31	.02		5.73
Kidder ‡‖	Grand	.55									.10				1.36	.55				1.09							.33		.21		.38		4.57
Lexington	Missouri	.06						.07			.55	.12			1.85					.21					.17	.17			.61				3.81
Liberty	....do	.12					T.	T.		.02	.99	.04		.43	1.96				.23	T.					.09	.53			.27	.26	.11		5.05
Maryville	....do	.25					.08				.50			.03					1.22						.02	.32			.59	.24	.03		3.28
Oregon	....do	.10					.12				.73				.35				.65	T.					.05	.32			.70	.12			3.14
St. Joseph***	....do	.02					.01				.95			.19	.82			T.	.81	T.	T.				.31	.19		.18	.41	.19	T.		4.08
Tarkio	....do	.07					.05				.28								1.46	.09					.14	.08			.21	.24			2.62
Trenton	Grand	.11				.04	.03				.63				1.40				.64	.02					.05	.32			.33	.32			3.89

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for March, 1922.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	26	35	40	49	69	46	43	60	50	41	59	65	60	54	65	67	75	77	42	44	47	69	78	67	66	53	60	41	45	44	45	54.3
	Minimum	7	15	12	16	26	38	28	24	21	40	35	36	43	43	36	38	45	51	41	33	31	28	34	54	56	32	35	40	35	39	34	33.7
Columbia	Maximum	26	29	39	50	64	60	42	59	50	47	54	63	58	55	61	63	73	70	60	40	42	66	74	70	66	42	61	52	46	47	42	53.9
	Minimum	15	16	11	22	35	33	28	26	40	37	36	37	47	42	35	44	49	56	33	30	31	28	54	55	39	35	39	38	39	38	32	35.5
Fayette §§	Maximum	22	27	34	43	60	52	..	..	..	..	..	60	55	49	60	60	68	67	53	38	40	63	72	63	63	41	55	46	42	42	47	ᵉ50.8
	Minimum	9	10	4	13	30	28	23	..	..	..	..	32	38	37	32	37	45	51	28	28	26	23	46	50	33	29	35	32	34	32	28	ᵈ30.1
Hannibal	Maximum	25	31	40	47	59	57	34	52	53	46	56	60	63	54	61	63	61	67	59	35	45	58	75	67	62	42	53	51	44	44	40	51.7
	Minimum	15	18	15	23	35	34	30	24	39	38	35	37	47	45	39	42	49	53	32	32	32	29	51	55	40	34	38	39	38	37	31	35.7
Jefferson City §§	Maximum	38	42	56	59	69	50	48	60	50	49	55	64	55	60	62	62	74	67	52	40	42	48	75	71	70	40	60	52	60	50	40	55.5
	Minimum	10	15	16	14	24	50	27	25	26	40	37	34	45	47	36	42	48	49	50	32	29	27	32	36	54	37	37	39	38	42	32	34.5
Kirksville	Maximum	24	34	40	45	58	53	33	49	53	47	55	59	70	57	67	63	64	69	62	34	43	61	78	71	63	47	55	55	40	41	42	52.6
	Minimum	11	15	9	23	23	32	26	21	21	21	19	33	33	35	32	38	45	38	29	30	29	26	31	41	21	28	23	35	34	35	30	28.1
Louisiana	Maximum	25	32	38	40	60	60	52	50	54	52	50	55	60	62	56	62	62	65	65	50	43	52	73	73	70	70	48	55	50	45	45	54.0
	Minimum	16	18	5	17	34	48	30	22	40	42	38	28	44	50	35	35	48	54	45	33	34	27	48	54	52	48	40	42	40	42	34	36.9
Macon §§	Maximum	24	31	38	41	60	44	35	55	58	41	55	63	63	51	61	65	68	72	40	37	43	61	75	70	64	50	57	44	43	40	43	51.4
	Minimum	4	10	14	18	21	21	25	21	28	38	31	33	43	45	33	35	42	47	38	29	31	26	34	52	54	30	36	39	35	36	30	31.6
Mexico §§	Maximum	27	30	41	48	61	50	41	59	51	48	54	62	59	55	61	66	72	70	52	37	47	63	75	62	65	40	60	50	45	45	39	52.7
	Minimum	13	12	10	20	29	34	28	23	23	37	34	24	34	46	34	36	42	45	49	29	20	27	34	52	51	34	34	37	37	38	30	32.5
St. Catherine	Maximum	25	32	42	45	59	40	35	54	53	42	55	62	64	53	60	63	68	69	60	38	40	60	72	68	61	48	54	54	42	42	43	51.7
	Minimum	10	14	12	21	32	38	24	23	38	33	32	35	40	44	31	41	47	50	31	30	29	25	45	50	35	29	37	35	33	35	31	32.6
St. Louis (1)	Maximum	28	31	36	47	58	60	42	54	50	53	53	58	69	57	61	63	62	67	60	38	48	58	72	76	73	44	53	58	49	59	43	54.2
	Minimum	21	21	22	26	35	38	31	29	41	38	40	39	45	48	40	47	49	54	34	33	34	34	46	58	44	38	40	42	40	43	34	38.2
Unionville	Maximum	24	34	44	48	58	56	36	50	50	44	56	62	65	58	60	64	62	68	60	34	40	60	72	67	58	48	54	52	42	40	42	51.9
	Minimum	5	10	16	24	30	32	24	20	32	30	32	35	40	40	28	40	44	47	30	28	26	24	46	45	40	26	32	32	32	34	30	30.8
Warrenton §§	Maximum	27	28	43	54	64	56	44	61	49	46	60	67	61	53	61	65	68	67	57	35	46	63	71	72	72	40	56	53	48	49	38	54.0
	Minimum	9	14	15	15	24	33	29	24	25	40	37	32	33	41	35	36	42	45	54	31	31	28	29	50	53	36	36	37	39	40	32	33.1
Southeast Lowlands.																																	
Caruthersville	Maximum	36	33	35	54	75	65	58	77	55	52	52	68	66	68	78	64	73	78	68	54	56	66	76	80	78	70	56	78	70	74	70	64.0
	Minimum	29	24	28	26	33	49	38	33	44	42	42	36	45	54	45	36	48	55	48	39	34	33	45	50	56	52	48	50	49	54	52	42.5
Doniphan	Maximum	32	33	40	47	59	60	58	58	52	47	50	60	62	62	66	64	61	70	63	51	51	61	77	74	74	67	58	70	58	72	69	59.0
	Minimum	24	19	28	21	29	45	36	24	42	42	40	28	40	54	43	40	34	48	42	37	29	27	43	43	54	44	43	50	42	48	39	38.0
Jackson	Maximum	30	30	40	50	60	60	53	59	53	55	52	61	67	67	64	65	70	70	66	47	50	58	75	75	73	68	67	68	55	71	70	59.6
	Minimum	24	20	23	21	31	41	36	23	43	40	39	30	38	54	41	33	60	53	45	34	32	25	41	46	51	45	42	50	42	49	36	38.3
Poplar Bluff	Maximum	..	..	..	..	62	58	55	63	54	49	47	62	63	67	70	64	73	72	65	52	52	63	78	76	77	70	58	73	58	75	75	ᵈ64.1
	Minimum	..	..	..	..	33	47	38	27	44	40	41	30	42	51	43	39	49	56	44	37	32	29	42	51	55	46	44	51	44	49	39	ᵈ42.4
Cairo, Ill.	Maximum	31	29	38	46	57	62	51	50	49	53	48	59	63	63	60	61	64	67	[illegible]	41	48	55	70	71	72	59	52	69	56	69	58	56.1
	Minimum	26	22	27	27	35	42	38	33	45	42	41	39	48	48	47	45	51	58	39	36	36	38	49	56	56	48	46	51	47	54	38	42.2
Ozark Plateau.																																	
Arcadia §§	Maximum	27	30	42	50	59	60	51	56	48	49	50	60	65	69	66	61	71	66	59	40	48	60	73	74	72	43	54	63	50	68	39	55.6
	Minimum	16	16	14	14	15	35	32	21	24	41	31	26	26	49	38	30	33	45	54	32	28	23	29	47	47	40	39	40	40	40	36	32.3
Birchtree	Maximum	30	31	42	48	58	59	48	57	53	40	53	60	54	65	66	61	71	65	54	48	51	58	75	75	68	61	54	64	49	69	59	56.3
	Minimum	18	16	23	19	30	41	30	31	40	36	31	32	38	50	38	39	45	45	36	34	33	24	45	50	54	39	34	46	38	45	33	35.9
Eldon	Maximum	27	30	44	50	45	38	39	60	49	40	56	65	54	55	63	65	74	69	60	45	40	69	75	71	68	46	63	52	48	50	42	53.3
	Minimum	9	10	8	14	28	32	24	26	30	20	20	28	41	41	30	34	42	42	27	27	25	21	45	46	34	32	32	32	32	32	26	28.7
Farmington	Maximum	26	28	48	56	60	59	47	60	48	48	52	64	70	65	63	64	62	65	56	37	44	65	71	76	74	65	53	53	50	64	52	56.3
	Minimum	21	16	18	22	30	47	33	23	39	40	38	30	42	53	45	35	47	53	36	32	30	27	46	50	51	39	39	47	40	40	32	36.8
Hollister	Maximum	45	40	43	45	65	64	55	60	60	45	50	68	62	65	66	55	74	70	60	65	60	55	76	74	70	67	65	65	60	65	60	60.3
	Minimum	19	16	24	38	20	42	30	20	40	34	38	35	45	42	35	30	45	58	35	35	30	32	30	50	51	40	45	40	40	50	35	36.3
Koshkonong	Maximum	32	30	38	49	59	60	51	60	51	43	48	64	57	64	66	69	72	62	60	59	54	65	77	75	71	60	58	68	51	71	63	58.3
	Minimum	21	19	22	24	31	47	32	31	42	38	38	35	45	52	40	42	58	56	41	40	33	30	46	52	53	42	42	48	41	48	38	39.6
Lebanon §§	Maximum	20	34	38	55	62	52	51	59	43	44	56	60	63	68	66	65	71	73	50	49	50	60	73	74	70	29	63	55	51	56	40	55.2
	Minimum	11	11	13	17	20	45	17	17	29	39	33	35	41	47	34	34	41	49	48	35	29	29	32	52	50	34	34	37	26	36	31	32.7
Mountain Grove §§	Maximum	24	28	36	45	53	56	46	56	46	42	45	63	59	64	62	63	69	62	49	48	49	62	71	72	68	40	50	54	52	66	39	52.9
	Minimum	15	15	16	24	26	32	27	30	32	40	34	34	36	43	35	36	42	47	43	32	33	27	32	48	42	36	35	38	38	39	33	33.5
Neosho	Maximum	25	27	39	54	64	65	52	62	58	47	59	70	66	66	67	69	71	69	65	55	56	73	76	76	68	60	59	61	56	57	48	59.4
	Minimum	12	13	6	19	39	38	29	28	41	33	31	36	50	40	35	43	48	58	35	30	28	32	58	55	57	38	40	37	38	45	34	36.3
Rolla §§	Maximum	21	29	40	50	61	57	47	58	48	46	51	62	62	66	69	55	74	64	53	42	41	66	69	74	71	70	54	55	50	58	36	54.8
	Minimum	13	16	16	15	21	40	29	26	27	41	36	32	37	48	36	40	49	54	50	31	29	26	27	51	51	34	34	38	38	39	32	34.1
Springfield	Maximum	24	27	35	50	63	60	48	57	48	42	50	62	59	62	64	65	70	63	58	48	48	68	73	70	65	40	59	53	50	53	42	54.1
	Minimum	13	14	17	24	35	32	30	34	41	32	35	37	48	45	38	45	51	57	33	33	35	32	35	57	40	35	38	37	36	38	32	36.4
Southwest Plain.																																	
Amoret	Maximum	21	32	39	50	63	56	49	61	50	41	56	68	57	50	64	62	66	65	58	55	50	71	75	69	64	50	53	50	54	51	46	54.7
	Minimum	10	15	9	20	34	32	28	28	38	35	30	35	42	46	33	45	41	55	33	31	30	31	52	52	38	32	38	30	34	40	34	33.9
Appleton City	Maximum	24	32	39	49	63	60	50	61	55	44	57	67	59	55	65	67	67	67	61	52	49	70	75	70	66	47	59	55	53	53	45	56.0
	Minimum	12	16	12	23	36	37	29	28	41	37	35	37	46	49	36	46	50	58	35	33	33	32	53	54	41	35	40	35	37	43	35	36.6
Clinton	Maximum	25	32	38	49	64	60	58	62	57	47	57	69	66	55	67	68	71	68	64	52	45	73	75	76	70	46	62	60	53	55	45	57.7
	Minimum	12	18	14	23	36	30	28	28	40	39	35	37	44	30	37	47	51	58	35	33	32	31	55	55	41	35	40	35	28	43	35	36.0
Harrisonville §§	Maximum	25	15	39	49	62	44	49	57	43	40	51	67	55	53	63	65	68	67	39	51	43	71	76	68	67	44	56	40	51	45	41	51.7
	Minimum	7	13	11	13	21	38	28	26	28	39	32	33	43	45	35	38	47	49	39	31	31	32	34	52	55	32	34	32	31	37	34	32.9
Lamar §§	Maximum	29	34	41	53	66	49	53	62	46	41	60	71	55	67	68	69	70	64	42	57	63	75	78	73	62	46	60	48	55	53	47	56.7
	Minimum	9	13	9	10	36	36	27	27	37	36	31	34	46	45	35	42	47	52	40	29	31	32	41	45	55	36	38	38	35	39	32	34.3
Lamonte	Maximum	34	31	42	51	50	61	65	45	47	50	59	69	58	54	65	67	73	73	60	62	45	70	76	70	65	47	65	53	50	50	42	56.4
	Minimum	12	13	9	20	18	20	25	37	38	36	34	31	44	38	34	44	47	48	32	30	30	27	52	54	40	33	38	33	36	36	31	33.0
Marshall	Maximum	24	30	37	46	60	59	44	60	52	45	57	66	60	54	62	66	71	71	60	48	67	..	77	72	66	51	60	57	47	47	43	ᵃ55.3
	Minimum	11	17	11	21	31	36	25	23	36	31	34	34	42	48	36	40	48	52	33	32	27	..	52	52	40	33	38	34	36	41	32	ᵃ34.2
Nevada	Maximum	30	32	38	50	64	61	52	62	51	44	59	69	60	60	67	68	69	65	59	54	52	72	75	72	62	43	56	56	55	55	47	56.7
	Minimum	12	16	16	26	38	35	29	19	43	37	34	38	46	48	38	45	50	52	35	34	33	34	55	56	40	36	40	35	42	40	36	36.7
Warrensburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warsaw	Maximum	24	31	41	49	65	62	62	61	55	46	56	69	64	58	66	67	71	70	61	48	45	69	76	69	66	70	62	58	51	52	45	57.7
	Minimum	13	16	8	19	38	40	30	25	40	40	34	36	45	50	34	46	53	60	34	34	33	28	56	53	37	40	40	37	38	44	31	36.5
Northwest Plateau.																																	
Chillicothe	Maximum	26	32	40	47	61	41	38	57	51	37	38	66	64	52	62	64	72	70	40	41	44	66	74	66	61	51	58	38	42	42	43	51.1
	Minimum	4	4	16	19	27	36	26	22	25	33	31	32	39	44	32	34	45	50	39	30	30	28	33	52	54	30	31	34	33	36	33	31.7
Grant City	Maximum	26	38	46	54	63	61	38	55	55	46	54	67	69	61	65	66	70	70	62	44	46	67	70	65	65	53	57	58	58	42	46	56.0
	Minimum	4	8	19	24	33	32	24	20	33	32	28	36	45	45	[illegible]	44	49	51	31	30	29	28	48	45	37	26	32	28	28	35	31	32.1
Kansas City	Maximum	23	33	41	48	62	54	44	60	47	42	56	67	58	52	64	64	68	67	55	46	45	70	76	67	62	47	55	52	45	45	41	53.4
	Minimum	12	16	20	28	37	32	29	28	36	34	34	38	50	48	40	49	52	55	35	32	35	34	56	55	38	31	41	30	34	38	34	36.5
Kidder §§	Maximum	23	32	42	47	56	38	36	39	54	37	57	67	64	52	62	63	70	67	39	42	44	65	74	65	60	49	57	36	41	41	41	50.3
	Minimum	20	13	14	18	26	35	25	24	24	32	30	30	36	42	33	35	44	51	37	31	29	31	33	50	54	29	29	31	30	35	33	31.7
Lexington	Maximum	30	41	47	49	63	57	49	61	48	45	57	67	61	53	63	64	69	71	60	45	43	69	78	71	64	50	60	57	48	48	42	55.8
	Minimum	12	14	16	23	35	34	28	26	39	36	34	36	42	47	33	45	47	56	33	33	31	29	53	54	39	32	40	32	35	41	34	35.1
Maryville	Maximum	20	33	45	51	60	54	34	55	50	40	55	65	60	60	65	63	69	67	57	41	39	67	68	63	61	50	59	50	40	39	38	52.2
	Minimum	15	8	18	26	34	32	23	24	32	32	26	36	45	46	35	44	49	53	31	30	29	30	47	47	35	27	27	26	31	35	30	32.4
Oregon	Maximum	21	31	42	50	59	55	38	57	53	43	57	68	61	58	52	66	68	65	59	44	43	69	66	63	62	49	55	52	41	41	39	52.5
	Minimum	3	7	17	25	34	31	23	23	32	30	25	35	44	42	33	44	49	54	30	28	28	29	49	47	34	25	33	24	30	35	28	31.3
St. Joseph	Maximum	21	32	43	50	61	53	40	59	48	40	56	66	60	57	64	64	70	65	48	43	44	69	72	65	62	52	57	50	42	41	39	52.7
	Minimum	8	12	22	29	37	30	27	26	34	33	30	38	49	44	35	47	50	48	33	31	32	33	53	53	37	30	38	28	34	36	32	34.5
Trenton	Maximum	24	32	41	42	56	51	35	51	49	42	51	61	64	52	56	63	64	68	60	40	42	62	69	67	62	48	56	52	42	42	44	51.2
	Minimum	8	15	18	22	32	33	26	24	36	33	31	35	42	46	33	42	48	46	33	30	31	30	48	53	40	30	34	32	33	35	32	33.3

ᵃ, ᵇ, ᶜ, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

UNMS

AUG 4 1922

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVI. COLUMBIA, MO., APRIL, 1922 NO. 4.

GENERAL SUMMARY.

April, 1922, in Missouri, was warmer and wetter than normal in all sections; the warmest since 1915 and the wettest since 1893. Except on the 1st, and 18th, there was little or no freezing weather; on the latter date temperatures were 32° at a number of stations, and there was a heavy deposit of frost but the resulting damage to vegetation which was well advanced, was hardly noticeable.

This April was more marked by storms and floods than ordinary. Severe thunderstorms with wind and hail occurred frequently, the most important of these being mentioned under "Special Storm Notes". Floods were frequent and general over the low lands of most of creeks and smaller rivers, and in the Missouri River below Jefferson City, and the Mississippi River below St. Louis. The Osage River continued in flood for about 52 days, beginning in March

Railway traffic was delayed by soft roadbeds and washouts, while many of the dirt roads in central and southern sections were nearly impassable at times.

As a rule the soil was too wet for preparing for and planting corn, and field work in general was a month behind the average. The weather was favorable for winter wheat, meadows, and pastures, and also tree fruits, and berries.

TEMPERATURE.

The monthly mean temperature for the State, as a whole, 70 stations reporting, was 57.3°. The departure from the normal for 67 stations having 10 or more years' record was plus 1.9°. The first half of the month, except the first day, was mainly warmer than normal; the warmest days, with temperatures ranging from about 80° to 91°, were the 6th, 7th, and 16th. The latter half of the month was mainly cooler than normal; the coldest days, with thermometer readings near or below the freezing value, were the 18th, 19th, and 20th. There was considerable frost on the morning of the 18th and one or two places on the 19th, with temperatures of 32° or lower, but, probably owing to the wet condition of the ground and vegetation, there was very little injury.

PRECIPITATION.

The average precipitation for the State, 89 stations reporting, was 6.21 inches. The departure from the normal for 77 stations having 10 or more years' record was plus 2.42 inches. It was the wettest April since 1893. Normals in the northwestern and southeastern sections of the State were exceeded by small amounts, but in other sections the excesses were noticeable. The heaviest amounts, ranging from about 10 to 14 inches, fell in a relatively narrow strip from about Barton and Vernon Counties northeast to about Callaway and Warren Counties. All together, there were 9 stations with 10 inches or more, and 14 stations with 8 inches or more. Floods in the lowlands of the Grand, Chariton, Osage, and Meramec Rivers were frequent. The Missouri River from Jefferson City to St. Charles was out of banks much of the time, and much land was flooded in counties bordering the Mississippi River in the southeastern part of the State. At Warsaw, Benton County, on the Osage River, flood waters have continued for 52 days, causing much damage to farmers.

Except a short period from the 18th to 23rd, and also 29th and 30th, rains fell every day and on most of the days they were general rains.

WIND.

The prevailing winds were from the southeast. The total number of miles, 8 stations equipped with anemometers reporting, was 8,194, 11 miles an hour and about 11 per cent above the average. Fresh to strong gales were frequent.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well-placed stations with sunshine records reporting, was 228. This is about 59 per cent of the possible and 2 per cent less than normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense, mostly confined along the Mississippi and Missouri Rivers, on the 5th, 6th, 8th, and 15th.

Frost, heavy.---18th and 20th. Killing.---locally on the 18th and 19th.

Hail.---Caruthersville, 10th; Brunswick, Clifton Hill, Downing, Goodland, and Marshall on the 16th; Eldon, Mexico, St. Louis, Bethany, and Conception on the 17th.

Thunderstorms.---5th, 7th, 8th, 10th, 13th, 14th, 16th, and 17th.

SPECIAL STORM NOTES.

Springfield.—A tornado made its appearance about 5 miles west of Miller, Lawrence County, Mo., the afternoon of April 10th, and traveled a distance of about 49 miles in a northeast direction across the northwest part of Greene County to about Morrisville, Polk County. It passed near or over the villages of Ash Grove, Phenix, Harold, Luck, and Morrisville. Three persons were killed and 12 seriously injured; 8 residences, 2 shops, and two school houses were demolished, besides many roofs blown off, barns blown down, and trees uprooted. Loss about $100,000.

Maryville.—Nodaway County was swept by storms, having some characteristics of tornadoes, during the afternoon and first part of the night of April 8th. There was considerable damage done to property but no lives were lost.

Monnett.—A severe hailstorm occurred the afternoon of the 16th. The stones were as large as black walnuts; the roofs of many houses were practically ruined; plate glass windows were broken, and there was some serious damage to fruit trees and strawberries.

Appleton City.—Hailstorm night of the 13th damaged trees. Strong winds 8th, 9th, 10th, and 12th.

Seymour.—Severe rain, and tornado-like wind, with hail and semi-darkness, on the 14th.

Seligman.—Wind on the 14th, preceding rain, was a gale that unroofed some houses, uprooted trees, and moved a church from its foundation.

Brunswick.—Heavy wind on the 10th blew trees across the streets, stopping traffic. At 2 p.m. 16th, it hailed for ten minutes; stones large enough to break windows.

Downing.—Heavy hailstorm few miles south of this town on the 16th; many windows broken.

Farmington.—The most destructive hailstorm in years occurred about 9 p.m. of the 16th; broke glass windows in residences and greenhouses.

Warsaw.—Hail on the 17th, and 24th. Destructive hail, wind, and rain storms unprecedented in 24 years. Farm work 60 days behind.

Strong and more or less damaging winds occurred in Webster, and Nodaway Counties on the 8th; Clay, Cooper, Harrison, Worth, and Schuyler Counties on the 9th; Chariton, and Dade Counties on the 10th, and in Barry and Webster Counties on the 14th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.98	83	62	232	58	6,998	9 7	40	w.	11
Hannibal	29.99	80	..	...	..	7,436	10.3	40	s.	16
Kansas City	29.96	79	56	260	65	8,845	12.3	60	sw.	8
St. Joseph	29 95	80	56	251	63	7,298	10.1	69	nw.	8
St. Louis	29 98	79	70	254	64	10,935	15.2	50	sw.	11
Springfield	29.98	78	62	154	51	9,374	13.0	49	n.	14
Cairo, Ill	30.02	74	57	...	..	8,503	11.8	46	sw.	11
Keokuk, Iowa	30.01	76	62	217	55	6,165	8.6	36	nw.	19

COMPARATIVE DATA FOR APRIL.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	57 9	+2.8	91	20	1.83	-1.89	....	....	5	....	....	....
1889	55.7	+0.6	90	26	2.52	−1.20	....	....	8	....	....	....
1890	56.2	+1.1	93	24	3.17	−0.55	....	....	8	....	....	....
1891	56.8	+1.7	93	15	3.90	+0.18	....	....	9	....	....	....
1892	53.1	−2.0	88	26	5.66	+1.94	4.25	....	11	9	8	13
1893	53.9	−1.2	95	19	7.84	+4.12	5.50	....	12	8	9	13
1894	56.1	+1.0	93	20	3.17	−0.55	2.49	T.	8	12	10	8
1895	57.9	+2.8	100	24	1.95	−1.77	2.88	T.	7	14	8	8
1896	61.9	+6.8	92	17	3.51	+0.21	3.00	0.0	9	11	12	7
1897	54 4	−0.7	88	21	4.55	+0.83	3.50	T.	10	10	11	9
1898	52.5	−2.6	90	14	3.65	−0.07	3.25	T.	10	12	9	9
1899	54.0	−1.1	96	6	3.70	−0.02	3.76	3.8	8	12	9	9
1900	56.7	+1.6	89	21	3.36	−0.36	3 82	0.7	9	11	10	9
1901	53.3	−1.8	94	24	2.85	−0.87	2 23	1.8	8	14	7	9
1902	53.9	−1.2	95	19	2.66	−1.06	4.35	T.	11	13	11	6
1903	55.9	+0.8	91	26	3.54	−0.18	4.06	1.2	9	11	10	9
1904	49 0	−6.1	84	19	5.75	+2.03	6.10	2.7	9	15	6	9
1905	54.9	−0.2	92	20	3.19	−0.53	4.00	0.3	6	14	8	8
1906	59.5	+4.1	93	22	2.24	−1.41	2.45	0.0	8	17	7	6
1907	48.7	−6.4	89	16	3.43	−0.29	2.75	T.	8	11	8	11
1908	56.6	+1.5	90	18	5.30	+1.58	3.30	T.	11	11	8	11
1909	54.8	−0.3	93	19	4.35	+0.63	3.80	T.	8	13	9	8
1910	54.8	−0.3	95	21	3.51	−0.21	3.50	0.9	11	12	7	11
1911	53.5	−1.6	89	20	4.99	+1 27	4.27	T.	10	12	8	10
1912	56.0	+0.9	97	24	5.98	+2.26	4.50	0.7	10	13	7	10
1913	56.2	+1.2	94	25	3.33	−0.45	3.90	T.	7	16	5	9
1914	55.2	+0.1	91	18	3.14	−0.74	3.00	T.	8	12	7	11
1915	61.9	+6.5	96	18	2.03	−1.82	2.08	T.	7	16	8	6
1916	53.5	−1.8	93	21	3.23	−0.69	2.35	1.9	10	11	8	11
1917	53.2	−2.3	89	19	5.97	+2.02	4.80	1.2	12	12	6	12
1918	50.8	−4.4	93	19	5.10	+1 24	3.50	0.9	11	12	6	12
1919	55.3	+0.3	94	20	3.01	−0.64	3.25	T.	9	12	7	11
1920	50.2	−4.7	89	4	3.95	+0.15	2.98	4.8	11	11	7	12
1921	56.0	+0.9	91	19	5.37	+1.52	4.20	1.1	10	13	7	10
1922	57.3	+1.9	91	24	6.21	+2.42	5.49	T.	11	13	6	11

Climatological Data for April, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	55.0	+ 0.6	83	6	29	1	40	6.58	+3.31	1.08	0	14	15	0	15	se.	O. K. Benecke
Clifton Hill	Randolph	731	22	56.0	+ 2.4	85	6	30	18	41	5.03	+1.69	1.10	0	14	12	5	13	.....	Dr. A. J. Bradsher
Columbia	Boone	748	31	56.0	+ 1.4	87	6	32	18	40	9.93	+6.23	2.60	0	13	11	5	14	se.	U S. Weather Bureau
Downing	Schuyler	878	11	54.5	......	82	6	28	1	33	2.84	−0.83	0.42	T.	12	15	4	11	e.	E. E. St. Clair
Fayette††	Howard	661	38	51.8	− 3.1	83	6	28	1†	39	7.61	+4.28	1.54	0	13	..	..	..	.....	L. W. Jacobs. jr.
Fulton	Callaway	818	29	57.3	+ 2.9	83	6†	32	18	40	11.92	+7.83	2.55	0	13	12	11	7	se.	Westminster College
Gorin	......	.....	..	....	......	..	..	..	..	..	3.49	−0.33	1.09	0	9	12	2	16	se.	....
Hannibal	Marion	534	37	55.1	+ 1.5	83	6	33	1	30	5.45	+2.20	1.06	0	13	11	5	14	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	56.3	+ 0.2	85	6	32	1	38	13.89	‡10.35	3.10	0	18	19	1	10	s.	Miss Emma Swift
Kirksville	Adair	969	39	53.6	+ 1.7	82	6	29	1	36	2.69	−0.77	0.52	0	8	14	4	12	ne.	Prof. J. S. Stokes
Louisiana	Pike	469	40	56.1	+ 2.4	82	7	32	1	41	8.48	+5.43	1.66	0	13	20	1	9	e.	J. T. Farrell
Macon	Macon	875	28	54.0	+ 0.1	85	6	29	18	38	4.43	+1.56	0.61	0	15	15	6	9	se.	W. C. Brown
Mexico	Audrain	800	43	54.1	− 0.2	87	6	30	1	42	7 11	+3.64	1.28	1.2	19	17	2	11	se.	Mrs. Abbie Snoddy
Palmyra ††	Marion	652	22	54.1	− 0.5	82	6	33	29	37	5.38	+2.13	0.78	0	14	10	6	14	se.	W. B. Markell
St. Catherine	Linn	800	12	54.4	+ 3.0	79	6	30	1†	37	2.85	......	0.50	0	14	12	7	11	se.	L. D. Baker
St. Charles	St. Charles	456	43	58.1	+ 2.5	87	6	32	1	34	9.32	+5.80	2.22	0	9	14	3	13	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	58.2	+ 2.4	82	6	40	28	38	7.40	+3.88	2.45	0	11	13	9	8	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	57.3	+ 2.1	84	9	39	18	40	6.09	+2.08	2.21	T.	12	12	9	9	se.	St. Louis University
Shelbina	Shelby	779	28	....	......	..	..	..	..	..	5.22	+2.03	1.20	0	8	..	..	..	.....	S. G. Parsons
Steffenville	Lewis	650	28	55.2^{a}	+ 2.0	83	6	30	1†	34	3.19	+0.21	0.80	0	11	11^{a}	9^{a}	9^{a}	s.	Frank Hall
Unionville	Putnam	1,062	28	53.2	+ 2.1	80	6	30	1†	40	5.05	+1.56	2.35	0	10	12	7	11	n.	Geo. W. Davis
Warrenton	Warren	816	31	55.4	+ 0.6	89	6	31	1	44	10.79	+6.57	2 85	0	15	15	4	11	se.	Prof. A. W. Eberling
Keokuk, Iowa	Lee, Ia.	574	49	53.8	+ 1.8	81	6	33	1	31	2.97	−0.37	0.69	0	11	10	5	15	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	55.2	+ 1.3	89	6	28	1†	44	6.48	+3.17	3.10	0.1	13	13	5	12	se.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	66.2	+ 6.0	91	16	41	1	42	4.35	+0.23	1.00	0	9	21	5	4	ne.	H. E. Averill
Doniphan	Ripley	344	17	60.4	+ 2.4	85	6	33	20	37	4.50	−0.87	1.20	0	8	15	5	10	ne.	W.W. Martin
Jackson	Cape Girardeau	428	31	59.6	+ 2.7	84	6	30	20	41	4.70	+0.23	1.71	0	9	8	9	13	s.	John G. Putz
Marble Hill	Bollinger	470	27	59.6	+ 2.9	85	6	31	20	37	6.86	+2.42	1.80	0	8	12	14	4	s.	R.A. DeWitt
Parma	New Madrid	281	..	....	......	..	..	..	..	..	4.86	......	1.23	0	9	..	..	..	......	J.E. Pearce
Patton (near)	Bollinger	500	11	....	......	..	..	..	..	..	4.71	+1 23	1.83	0	7	.	..	..	......	George F. Ellis.
Poplar Bluff	Butler	339	17	62.2	+ 3.0	87	6	34	20	35	4.45	−0.02	1.30	0	8	12	13	5	ne.	Rev. John H. Gallaher.
Vanduser	Scott	304	..	....	......	..	..	..	..	..	4.18	......	1.04	0	9	20	1	9	. ....	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	60.8	+ 2.5	81	6	41	1	30	3.35	−0.22	0.70	0	8	8	5	17	s.	U. S. Weather Bureau
Section means and	extremes	....	..	61.5	+ 3.2	91	16	30	20	42	4.66	+0.43	1.83	0	8	14	7	9	ne.	
Ozark Plateau.																				
Arcadia	Iron	926	43	57.3	+ 2.0	86	6	29	20	44	6.05	+1.43	0.95	0	10	16	5	9	s.	Arcadia College
Birchtree	Shannon	1,000	28	58.2	+ 1.4	85	6	30	20	40	4.55	−0.17	1.00	0	8	17	5	8	sw.	V. H. Kirkendall
Bolivar	Polk	1,071	32	58.8	+ 2.7	86	6	31	1	40	7.43	+3.44	1 26	0	11	18	6	6	sw	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	59.4^{a}	+ 2.1	87	6	26	1	44	6.60	+2.76	1.74	0	12	14	6	10	e.	H. E. Dean
Eldon	Miller	934	22	53 0	− 2.4	86	6	26	18	47	12.59	+8.13	2.19	T.	10	7	10	13	e.	E. H. Shepherd
Farmington	St. Francois	918	24	58.9	+ 2.0	85	13	34	20	38	6.67	+2.71	1.47	0	10	12	11	7	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	56.8	+ 1.2	86	6	30	12	44	8.27	+3.72	1.73	0	9	11	8	11	se.	A. C. Leach
Goodland	Iron	1,000	28	57.7	+ 3.1	85	6	28	20	42	7.93	+2.84	2.70	0	8	15	7	8	s	F. M Adams
Greenville	Wayne	381	..	....	......	..	..	30	20†	..	6.22	......	1.27	0	10	18	4	8	s.	J. J. Amen.
Hollister	Taney	735	18	60.3	+ 0.6	90	6	28	1	50	4.96	+0.39	1.20	0	8	17	5	8	sw	W. P. Chapmann
Houston	Texas	1,280	29	58.8	+ 3.0	86	6	31	12†	45	6.13	+1.69	1.56	0	8	14	6	10	sw	Walter T. Beard
Koshkonong	Oregon	958	20	60.4	+ 2.6	88	6	36	20	34	4.47	−0.50	1.55	0	10	10	8	12	se.	R. M. Hitt
Lebanon	Laclede	1,265	34	57.4	+ 1.7	87	6†	30	1†	41	5.43	+1.25	1.10	0	13	12	5	13	s	Leonard E. Dickerson
Lockwood	Dade	1,078	25	57.8	+ 1.8	85	6	31	1	38	7 94	+4.28	1.09	0	15	13	5	12	se.	C. S. Crow
Mountain Grove	Wright	1,463	25	57.0	+ 2.8	83	6	32	20	42	7.26	+2.48	2.18	0	11	9	1	20	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	60.2	+ 2.2	87	6	28	1	42	6.50	+2.38	1.73	0	13	14	4	12	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	57.2	+ 2.2	87	6	32	1†	43	4.81	+0.15	1.15	0	10	14	7	9	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	15	59.7	+ 3.9	84	6	31	1	37	4 17	+0.24	0 73	0	12	14	8	8	sw.	Floyd E. Fawver
Seymour	Webster	1,642	16	59.0	+ 3.6	83	6	29	20	41	5.80	+1.84	1.10	0	12	13	9	8	se.	Ira H. Hailey
Springfield	Greene	1,350	42	57.6	+ 1.9	85	6	32	1	36	4.94	+1.08	1.54	0	11	12	7	11	se.	U. S. Weather Bureau
Section maens and	extremes	.....	..	58.2	+ 2.0	90	6	26	1†	50	6.45	+2.11	2.70	0	11	14	6	10	sw.	
Southwest Plain.																				
Amoret	Bates	831	15	55.6	+ 1.1	82	6	29	1	36	8.60	+4.60	1 65	0	15	9	6	15	sw.	Darby Fruit Farm
Appleton City	St. Clair	853	29	57.5	+ 1.7	85	6	31	1	35	11.45	+7.19	2.74	0	13	12	7	11	se.	W. G. Bigelow
Clinton	Henry	765	34	59.2	+ 3.5	83	7	30	1	38	10.81	+6.77	2.37	0	12	10	8	12	ne.	A. E. Derwent, M. D.
Harrisonville	Cass	904	46	54.0	+ 0.2	84	6	30	18	39	7.89	+4.50	1.24	0	15	6	5	19	e.	John H. Patterson
Lamar	Barton	980	40	57.2	+ 0.6	87	6	30	1	38	13.06	+8.91	2.90	0	15	13	0	17	se.	Joe W. Springer
Lamonte	Pettis	867	35	56.4	+ 1.3	80	6†	28	1	42	7.98	+4.21	2.40	0	17	14	6	10	se.	J. E. Wheeler
Marshall	Saline	779	32	56.4	+ 2.0	84	6	29	1	42	6.95	+3.26	1.23	0	14	13	6	11	ne.	Dr W. H. Black
Nevada	Vernon	862	30	57.4	+ 2.3	85	6	31	18	36	11.32	+7.53	2.69	0	14	14	3	13	s.	George A. Kaupp
Warsaw	Benton	687	26	58.7	+ 2.9	86	6	29	1	39	14.34	‡10.12	5.49	0	12	11	16	3	e.	J. R. Smith, M. D.
Section means and	extremes	.....	..	56.9	+ 1.7	87	6	28	1	42	10 27	+6.34	5.49	0	14	11	7	12	se.	
Northwest Plateau.																				
Avalon	Livingston	730	24	55.4	+ 1.7	82	6	30	1	37	3.75	+0.54	1.00	0	9	8	7	15	sw.	F. G. Ashbaugh
Bethany	Harrison	916	30	54.2	+ 3.0	84	6	24	1	40	1.72	−1.24	0 65	T.	6	13	10	7	ne.	M. H. Moulton
Chillicothe	Livingston	779	13	53.4	− 1.1	83	6	28	1	39	3.44	−1.38	0.86	0	11	16	2	12	e.	Wm. J. Olenhouse
Conception	Nodaway	980	37	54.1	+ 1.8	82	6	28	1	41	1.98	−0 73	0.58	T.	8	10	13	7	ne.	Fr. Adelhelm Hess
Edgerton	Platte	856	9	55.3^{c}	......	83	6	25	18	45	2.93	−0.59	0.84	0	14	18	2	10	s.	Fred L. Stiff
Grant City	Worth	1,134	30	55.4	+ 3.1	84	6	27	1	44	1.90	−0.97	0.62	T.	7	14	9	7	s.	B. F. Locke
Kansas City	Jackson	963	32	55.8	+ 1.5	83	6	33	1	33	4.06	+0.77	1.26	0	13	12	7	11	ne.	U. S. Weather Bureau
Kidder	Caldwell	1,020	34	52.8	− 0.1	83	6	28	1	39	2.72	−0.07	0.74	0	10	14	5	11	se.	Linn Terry
Lexington	Lafayette	688	39	56.2	+ 2.1	85	7	27	2	39	6.40	+3.04	1.20	0	15	14	6	10	se.	Edwin G Loomis
Liberty	Clay	859	31	56.6	+ 1.1	84	6	28	1†	41	4.52	+1.42	1.08	0	14	13	8	9	ne.	James H. Harris
Maryville	Nodaway	1,169	27	53.2	+ 2.6	81	6	28	1†	40	2.40	−0.30	1.15	T.	7	16	1	13	s	J. R. Brink
Oregon	Holt	1,048	66	53.6	+ 0.9	80	6	28	1†	39	2.66	−0.59	1.29	0	7	12	10	8	ne.	Tom Curry
St. Joseph	Buchanan	967	49	55.2	+ 1.4	83	6	32	1	37	2.54	−0.33	0.79	T.	9	12	8	10	se.	U. S. Weather Bureau
Tarkio	Atchison	916	28	53.0	− 0.3	84	6	29	1†	42	3.42	+0.46	1.52	0	8	9	13	8	se.	Albert Volker
Trenton	Grundy	822	26	53.8	+ 0.6	78	6	29	1	34	3.29	+0.43	0.90	0	13	13	8	9	se.	W. H. Estes
Section means and	extremes	.....	..	54.5	+ 1.3	85	7	24	1	45	3.18	+0.03	1.29	T.	10	13	7	10	se.	
State means and	extremes	.....	..	57.3	+ 1.9	91	16	24	1	50	6.21	+2.42	5.49	T.	11	13	7	10	se.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F D. No. 5. ‡ Indicates plus.

Daily Precipitation for April, 1922.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	....	....	.45	.43	.25	....	1.05	1.53	.52	....	.32	....	.37	.25	.42	....	.75	....	....	....	....	....	....	.22	.59	....	.09	.28	....	....	....	7.52
Brunswick‖	Grand	....	....	.12	.82	1.08	....	.40	.30	.75	....	.18	....	.45	.38	.40	....	.8	....	....	....	....	....	....	.30	.45	....	....	.15	....	....	....	6.58
Clifton Hill	Chariton	....	....	.52	.05	.30	....	.53	.33	....	.05	.05	....	.51	.47	....	1.10	.45	....	....	....	....	....	....	.40	.20	....	.07	....	....	....	....	5.03
Columbia***	Missouri	....	....	.96	T.	.50	....	2.17	1.17	....	.33	.16	....	.16	1.65	....	.77	.80	....	....	....	....	....	....	.82	.07	....	.37	....	....	....	....	9.93
Downing	Mississippi	....	....	.40	.09	.42	....	.29	.14	.32	.03	.12	....	T.	T.	....	.41	.42	....	....	....	....	....	....	.14	.06	....	....	....	....	....	....	2.84
Fayette‖	Missouri	....	.72	.13	.29	....	....	1.13	.78	....	.14	.06	....	.84	.95	....	1.54	....	....	....	....	....	....	....	.61	.21	....	.21	....	....	T.	....	7.61
Fulton	....do	....	....	1.00	....	.46	....	1.60	2.55	.45	1.01	.10	....	....	1.84	....	....	1.61	....	....	....	....	....	....	.46	.31	....	.51	.02	....	....	....	11.92
Gorin	....	....	....	.54	....	.60	.01	.48	.39	....	....	.03	....	....	.14	....	1.09	T.	....	....	....	....	....	....	.21	....	....	....	....	....	....	....	3.49
Hannibal***	Mississippi	....	....	.13	T.	.32	....	.71	.45	....	.92	.02	....	.24	.74	....	.41	.65	....	....	....	T.	....	....	.42	.23	....	.01	....	....	....	....	5.45
Hermann‖	Missouri	.36	....	02	.30	.45	....	.17	4.15	1.20	....	.92	.02	....	.40	96	....	1.40	.14	....	....	....	....	....	....	.91	....	.02	.54	....	....	....	11.96
Jefferson City‖	....do	.02	....	.50	.64	.65	.05	.40	3.10	.94	....	1.32	.05	....	1.15	.70	....	2.30	.05	....	....	....	....	....	.05	.95	....	.18	.84	....	....	....	13.89
Kirksville	Mississippi	....	....	.42	.38	.42	....	.25	.26	....	....	....	....	....	.36	....	.08	.52	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.69
Louisiana	....do	....	....	.63	....	.27	....	.36	1.18	.36	.08	1.66	....	....	.70	1.10	....	1.52	....	....	....	....	....	....	.02	.57	....	....	.03	....	....	....	8.48
Macon ‖	Chariton	....	....	.11	.49	.59	.06	.19	.45	.36	....	.21	.03	.12	.44	.20	....	.61	T.	....	....	....	....	....	.17	.40	....	....	T.	....	....	....	4.43
Mexico ‖	Mississippi	.11	T.	.01	.52	....	.03	.37	1.16	.20	....	.93	.02	.08	.52	.83	....	1.28	.12	....	T.	.01	....	....	.04	.80	.03	....	.05	....	....	....	7.11
Pacific‖	Meramec	.18	....	....	....	.35	.38	....	.94	.68	....	.85	T.	....	.28	.64	....	2.44	.03	....	....	....	....	....	....	.60	T.	.14	.50	....	....	....	8.01
Palmyra‖	Mississippi	....	....	.03	.25	.61	.13	.29	.36	.42	....	.43	T.	.48	.26	.45	.34	.78	....	....	....	....	....	....	....	.55	....	....	....	....	....	....	5.38
St. Catherine	Grand	....	....	.50	.23	.13	....	.30	.42	.10	.10	.08	....	T.	.12	....	.17	.16	....	....	....	T.	....	....	.45	T.	....	.08	.01	....	....	....	2.85
St. Charles	Missouri	....	....	....	....	.75	....	.63	2.22	.47	.81	....	....	....	1.80	....	....	1.90	....	....	....	....	....	....	T.	.57	....	.17	....	....	....	....	9.32
St Louis (1)***	Mississippi	....	T.	....	T.	.72	....	.52	.97	....	.36	T.	....	.65	.83	....	1.36	1.09	....	....	....	....	....	....	.06	.60	....	.24	....	....	....	....	7.40
St. Louis (2)	....do	....	....	....	....	.62	....	.37	.43	....	.25	.01	....	.78	.53	....	.72	1.49	....	....	....	....	....	....	.10	.52	....	.27	....	....	....	....	6.09
Shelbina	....do	....	....	.70	....	.50	.44	....	.30	....	....	1.20	....	....	.50	....	....	1.08	....	....	....	....	....	....	.50	....	....	....	....	....	....	....	5.22
Steffenville	....do	....	....	.25	....	.30	....	.30	.17	.25	.15	....	....	.20	.35	....	....	.80	....	....	....	....	....	....	.20	.22	....	T.	....	....	....	....	3.19
Union‖	Meramec	.18	....	....	....	.35	.18	.01	1.64	.74	....	.62	.02	....	.31	.90	....	3.45	....	....	....	....	....	....	....	.64	....	.11	.57	....	....	....	9.72
Unionville	Chariton	....	....	40	.45	.20	....	1.75	.60	....	.80	.05	.10	....	....	....	....	.15	T.	....	....	....	....	....	T.	.55	....	T	....	....	....	....	5.05
Valley Park‖	Meramec	.36	....	T.	....	.46	.59	....	.50	.92	....	.50	T.	....	.16	.78	....	2.71	.05	....	....	....	....	....	....	.59	T.	.06	38	....	....	....	8.06
Warrenton ‖	Mississippi	.19	....	T.	.01	.48	.07	.50	2.85	1.53	....	1.30	T.	....	.21	1.25	....	1.28	.08	....	....	....	....	....	....	.76	....	.08	.20	....	....	....	10.79
Keokuk, Ia.***	....do	....	....	.69	....	.46	....	.18	.43	....	.15	.02	T.	....	.24	....	.27	.33	....	....	....	T.	....	....	.16	.04	....	....	....	....	....	....	2.97
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi	.13	....	....	....	.18	.20	....	....	.48	....	1.05	....	....	.06	.30	....	.23	.04	....	....	....	....	....	....	.20	....	.30	.70	....	....	....	3.87
Caruthersville	....do	....	....	....	....	.48	....	....	....	.80	1.00	.08	....	....	.55	....	T.	T.	T.	....	....	....	....	....	T.	.28	.38	.64	.14	....	....	....	4.35
Doniphan	Black	....	....	....	....	.90	....	....	T.	.60	.30	.05	....	....	.35	....	....	.65	....	....	....	....	T.	....	T.	....	.45	1.20	....	....	....	....	4.50
Jackson	Mississippi	....	....	....	....	1.01	....	....	....	.47	.20	.30	....	.22	....	....	....	.57	....	....	....	....	....	....	....	.20	1.71	....	.02	....	....	....	4.70
Marble Hill	....do	....	....	....	....	.97	....	....	....	.60	.86	.41	....	....	.38	....	....	1.56	....	....	....	....	....	....	....	.28	....	1.80	....	....	....	....	6.86
New Madrid‖	....do	.03	....	....	....	.40	.15	....	....	.65	....	.60	....	....	....	.70	....	.03	....	....	....	....	.01	....	....	.18	.30	.50	.80	....	....	....	4.35
Parma	....do	....	....	....	....	.30	....	....	....	.62	....	.61	....	....	.51	....	....	68	....	....	....	....	....	....	....	.62	.20	1.23	.09	....	....	....	4.86
Patton (near)	....do	....	....	....	....	.28	....	....	....	.48	.60	.20	....	....	.15	....	....	1.17	....	....	....	....	....	....	....	....	1.83	....	....	....	....	....	4.71
Poplar Bluff	Black	....	....	....	....	.34	.02	....	....	.61	.70	....	....	....	.33	....	....	1.13	.02	....	....	....	....	....	T.	....	T.	1.30	....	....	....	....	4.45
Vanduser	Mississippi	....	....	....	....	.52	....	....	.70	....	.51	.25	....	....	.27	....	....	.68	....	....	....	....	....	....	....	.13	....	1.04	.08	....	....	....	4.18
Cairo, Ill.***	....do	....	....	....	....	.29	....	....	.51	T.	.42	....	....	T.	.68	....	T.	.31	T.	....	....	T.	....	....	T.	.40	.10	.64	....	....	....	....	3.35
Ozark Plateau.																																	
Arcadia ‖	St. Francis	.18	....	....	....	.85	.22	....	T	.47	....	.90	....	....	....	.66	....	45	T.	....	....	....	....	....	....	.79	....	.58	95	....	....	....	6.05
Birchtree	Gasconade	....	....	....	....	.80	....	....	.49	....	.87	....	....	....	.35	....	....	.54	....	....	....	....	....	....	....	.32	.18	1.00	....	....	....	....	4.55
Bolivar	Black	....	T.	....	24	.16	....	T.	1.26	....	.85	T.	....	....	.48	....	.48	.81	....	....	....	....	....	....	.83	.70	.59	1.03	....	....	....	....	7.43
Dean	Osage	....	....	.10	T.	.52	....	.04	.43	....	.99	T.	....	T.	1.74	....	.32	....	....	....	....	....	....	....	.45	.16	.52	1.49	.04	....	....	....	6.80
Eldon	Neosho	....	T.	1.00	....	.51	....	2.00	2.10	....	1.48	....	....	....	1.32	....	....	2.19	....	....	....	....	....	....	.57	.58	....	.84	....	....	....	....	12.59
Farmington	Osage	....	....	....	....	1.26	....	....	....	.50	.38	.27	....	....	.85	....	....	1.47	....	....	....	....	....	....	....	.81	.03	1.03	.07	....	....	....	6.67
Gano	St. Francis	....	....	....	....	1.52	T.	....	.80	.15	1.12	....	....	....	.50	....	....	1.70	....	....	....	....	....	....	T.	.60	.15	1.73	....	....	....	....	8.27
Goodland	Meramec	....	....	....	1.00	....	....	....	....	.50	.70	.20	....	....	.64	....	....	2.70	....	....	....	....	....	....	....	.75	....	1.44	....	....	....	....	7.93
Greenville	St. Francis	.18	....	....	....	.75	1.27	....	....	.42	....	.41	....	....	....	.20	....	.90	.24	....	....	....	....	....	....	T.	....	.61	1.24	....	....	....	6.22
Hollister	Black	....	....	....	.80	....	....	....	.56	....	1.00	....	....	....	.10	....	....	....	....	....	....	....	....	....	....	.70	1.20	50	.10	....	....	....	4.96
Houston	White	....	....	....	....	....	....	....	1.00	....	.68	....	....	....	.53	....	....	1.53	....	....	....	....	....	....	T.	47	.32	1.56	.04	....	....	....	6.13
Jerome	Gasconade	....	....	....	....	.50	....	....	....	.60	....	.50	....	....	.12	.40	....	.70	T.	....	....	....	....	....	....	.60	....	.30	1.30	....	....	....	5.12
Koshkonong	Black	.10	....	....	....	1.55	....	....	....	.46	.67	.03	....	....	.07	....	....	.75	....	....	....	....	....	....	T.	.10	.13	.66	.05	....	....	....	4.47
Lebanon ‖	Osage	....	....	T.	T.	.40	T.	....	.03	.48	....	.35	....	....	.35	.33	....	1.10	....	....	....	....	....	....	.08	.70	.02	.45	.98	....	....	....	5.43
Lockwood	....do	.16	T.	.69	.10	.45	....	.06	1.09	.02	.88	....	....	....	.71	....	.35	.51	....	....	....	....	....	....	1.02	.80	.32	.84	.10	....	....	....	7.94
Mountain Grove‡‖	White	....	....	....	....	.88	.18	....	.12	1.02	....	.56	....	....	....	.28	....	2.18	....	....	....	....	....	....	....	.53	....	.66	.78	....	....	....	7.26
Neosho	Neosho	.07	.54	.05	.70	....	T.	.61	.03	1.73	.08	....	....	....	.15	....	.20	T.	....	....	....	....	....	....	.67	.43	.41	.90	T.	....	....	....	6.50
Rolla	Meramec	....	....	....	....	.46	.06	....	....	.46	....	.68	....	....	....	.34	....	.40	....	....	....	....	....	....	....	.54	....	.40	1.15	....	....	....	4.81
Seligman	Barry	32	....	T.	.56	.63	....	T.	.54	....	.18	.04	....	....	.36	....	.03	.05	....	....	....	....	....	....	.25	.14	.73	.66	T.	....	....	....	4.17
Seymour	White	....	....	....	....	.74	....	....	.63	.15	.45	.04	....	....	1.10	....	....	.79	....	....	....	....	....	....	.27	.36	.23	.94	.10	....	....	....	5.80
Springfield***	....do	....	....	....	.16	.08	....	T	.41	....	.20	T.	....	.09	.68	....	1.54	....	....	....	....	....	....	....	1.04	.02	.32	.40	....	....	....	....	4.94
Steelville‖	Meramec	....	....	....	....	.26	.17	....	....	.66	....	1.25	....	....	.88	.33	....	1.44	....	....	....	....	....	....	....	.44	....	.47	.97	....	....	....	7.07
Tuscumbia ‖	Osage	.20	....	.25	.18	.45	....	.07	2.20	.80	....	2.30	....	....	.78	.32	....	2.95	....	....	....	....	....	....	.13	.89	....	.28	1.15	....	....	....	12.75
Southwest Plain.																																	
Amoret	Osage	....	....	1.65	.06	.30	....	1.32	1.55	....	....	.01	....	.02	1.01	....	.12	.63	....	....	....	....	....	....	.83	.04	.12	.90	.04	....	....	....	8.60
Appleton City	....do	....	T.	1.45	....	.42	....	2.74	1.58	....	.08	.03	....	T.	1.34	....	.38	.84	....	....	....	....	....	....	.86	.10	.13	1.50	....	....	....	....	11.45
Clinton	....do	....	....	1.35	....	.37	....	1.70	2.37	.10	.10	....	....	....	1.15	....	.60	.65	....	....	....	....	....	....	.95	.12	....	1.35	....	....	....	....	10.81
Harrisonville‖	....do	....	....	.80	1.07	.11	....	1.24	.51	1.10	....	.14	....	.15	.49	.18	....	.90	....	....	....	....	....	....	.45	.05	....	.11	.59	....	....	....	7.89
Lamar ‖	Neosho	....	.11	1.18	.04	.88	....	....	2.50	.66	....	.33	....	....	.32	.55	....	2.90	.19	....	....	....	....	....	1.06	1.65	....	.52	.17	....	....	....	13.06
Lamonte	Missouri	....	....	1.12	.12	.25	....	2.40	.90	.02	.06	.15	.01	.08	.68	....	.25	.35	....	....	....	....	....	....	.48	.19	....	.88	.04	....	....	....	7.98
Marshall	....do	....	....	.92	.06	.08	....	1.23	.65	.02	.10	....	....	.68	.59	....	.81	.60	....	....	....	....	....	....	.58	.23	....	.40	....	....	....	....	6.95
Nevada	Osage	....	.01	1 36	.03	.55	....	1.49	2.69	....	....	....	....	....	.65	....	1.00	.52	....	....	....	....	....	....	1.66	.19	.31	.66	.20	....	....	....	11.32
Osceola‖	....do	....	....	1.45	....	.10	....	.77	3.50	.73	T.	.38	....	....	.48	....	....	1.42	....	....	....	....	....	....	.68	.57	....	.43	.93	....	....	....	11.44
Warsaw	Osage	....	T.	1.30	....	.25	....	1.12	5.49	....	.42	.13	....	....	1.25	....	.35	.95	....	....	....	....	....	....	1.15	.18	....	1.75	....	....	....	....	14.34
Waverly ‖	Missouri	....	....	.40	.99	.27	.02	.69	.23	.57	....	.11	T.	.34	.40	.21	....	.24	....	....	....	....	....	....	.32	.27	....	.05	.32	....	....	....	5.43
Northwest Plateau.																																	
Avalon	Grand	....	....	.40	.60	....	....	.40	.60	....	....	.18	....	.50	....	....	.40	....	....	....	....	....	....	....	.55	....	....	....	.12	....	....	....	3.75
Bethany	....do	....	....	.45	.02	.27	....	....	.65	.15	.18	T.	....	T.	....	....	....	T.	....	....	....	....	....	T	....	....	....	T	....	....	....	....	1.72
Chillicothe ‖	....do	....	....	.05	.84	.28	....	.27	.20	.86	....	.07	T.	....	T.	....	....	.08	....	....	....	....	....	....	.40	.31	....	....	.08	....	....	....	3.44
Conception	Missouri	....	....	.58	.04	.22	....	....	.53	.20	T.	.04	....	....	....	....	....	.05	....	....	....	....	....	T.	.32	....	....	T.	....	....	....	....	1.98
Edgerton	Grand	....	....	.58	.15	.21	.02	.37	.84	.02	....	.12	....	....	T.	....	....	.13	.01	....	....	....	....	....	.17	.01	....	.20	.10	....	....	....	2.93
Grant City	....do	....	....	.28	.04	....	....	....	62	.38	.12	....	....	....	....	....	....	.08	....	....	....	....	....	....	.38	....	....	....	....	....	....	....	1.90
Kansas City***	Missouri	....	....	1.22	.12	.07	T.	.29	.97	....	.07	.08	....	T.	.26	....	.10	.39	....	....	....	....	....	....	.28	....	....	.20	.01	....	....	....	4.06
Kidder ‖	Grand	....	....	....	.74	.27	.10	.33	.04	.62	....	.17	....	....	....	....	....	....	....	....	....	....	....	....	.16	.06	....	....	.23	....	....	....	2.72
Lexington	Missouri	....	....	.39	1.20	....	.07	.61	.65	1.02	....	.11	....	.41	.38	.21	....	.46	....	....	....	....	....	....	.29	.27	....	.08	.25	....	....	....	6.40
Liberty	....do	....	T.	1.05	.11	.46	....	.26	1.08	.02	.15	.20	....	....	.11	....	.02	.22	....	....	....	....	....	....	.43	....	....	.35	.06	....	....	....	4.52
Maryville	....do	....	....	.28	.13	.29	.04	....	....	1.15	....	....	....	....	....	....	....	....	.18	....	....	....	....	....	.30	.03	....	T.	....	....	....	....	2.40
Oregon	....do	....	....	.53	....	.17	....	....	1.29	....	....	.03	....	....	....	....	....	.11	....	....	....	....	....	....	.25	....	....	.28	....	....	....	....	2.66
St. Joseph***	....do	....	.03	.63	.07	.15	....	.01	.79	....	T.	.05	....	T.	....	....	T.	T.	....	....	....	....	....	T.	.35	....	....	.46	....	....	....	....	2.54
Tarkio	....do	....	....	.05	.02	.15	T.	....	1.10	1.52	....	....	....	....	....	....	....	.15	....	....	....	....	....	....	.35	....	....	.08	....	....	....	....	3.42
Trenton	Grand	....	.15	.48	T.	.15	.02	.36	.90	.13	.30	.05	....	....	T.	....	T.	.06	....	....	.02	....	....	....	.64	....	....	.03	T.	....	....	....	3.29

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for April, 1922.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	60	66	57	69	77	83	71	66	78	77	50	75	71	62	70	79	49	60	54	73	76	68	65	55	62	65	47	63	68	73	..	66.3
	Minimum	29	32	49	51	50	53	55	59	51	58	39	35	39	45	40	43	48	31	37	35	40	43	45	48	47	51	43	40	38	41	..	43.8
Columbia	Maximum	58	65	59	71	73	87	72	71	81	69	51	76	77	55	68	81	62	58	52	70	72	63	64	56	60	64	52	59	62	70	..	65.9
	Minimum	33	47	49	50	60	55	61	56	53	51	40	36	55	41	42	51	38	32	39	35	52	44	44	48	53	52	41	41	39	44	..	46.2
Fayette §§	Maximum	54	60	53	68	71	83	64	63	77	67	45	73	70	53	65	78	57	54	50	69	72	64	62	51	56	62	49	56	63	70	..	62.6
	Minimum	28	35	49	45	56	50	56	52	48	45	35	31	46	39	34	48	34	28	33	30	46	39	41	43	48	49	39	35	33	35	..	41.0
Hannibal	Maximum	56	63	56	66	72	83	72	72	80	71	56	65	71	53	65	80	63	57	51	67	67	60	61	55	62	64	48	57	61	68	..	64.0
	Minimum	33	45	50	50	55	54	61	59	55	55	41	38	53	42	41	52	40	36	40	37	48	43	44	51	51	48	42	39	42	40	..	46.2
Jefferson City §§	Maximum	60	67	64	77	74	85	73	72	82	69	52	75	82	54	67	80	74	58	55	65	74	65	63	55	60	64	47	60	64	72	..	67.0
	Minimum	32	35	47	48	52	55	58	60	54	58	42	42	44	47	40	44	54	40	41	35	42	44	42	48	48	53	42	40	40	42	..	45.6
Kirksville	Maximum	56	65	58	58	64	82	81	68	76	73	64	63	68	61	65	74	68	58	55	70	69	62	61	56	60	62	55	57	61	69	..	64.6
	Minimum	29	41	48	53	50	52	57	57	52	58	36	32	48	43	40	46	38	30	38	34	39	37	40	44	50	47	40	37	31	33	..	42.7
Louisiana	Maximum	50	62	60	66	70	78	82	79	80	80	72	62	66	68	66	70	80	75	60	65	70	68	69	62	60	64	64	60	60	70	..	67.9
	Minimum	32	42	50	50	55	50	58	58	60	52	42	35	58	45	35	40	48	34	38	33	48	38	39	38	48	48	43	40	38	34	..	44.3
Macon §§	Maximum	58	66	55	65	74	85	73	65	78	70	46	69	73	60	67	80	48	60	53	71	73	65	63	53	60	66	47	63	67	71	..	64.8
	Minimum	31	39	48	49	53	53	57	57	50	57	37	33	45	43	40	47	46	29	37	33	47	38	40	45	45	48	40	37	33	39	..	43.2
Mexico §§	Maximum	59	65	58	71	71	87	72	70	80	68	46	75	78	52	69	82	61	59	54	71	72	64	63	54	61	65	49	59	63	73	..	65.7
	Minimum	30	35	45	47	48	53	54	58	52	55	44	33	39	45	33	33	52	31	36	35	41	39	39	47	47	52	41	38	35	38	..	42.5
St. Catherine	Maximum	66	63	57	61	71	79	75	66	73	72	60	67	70	57	65	75	66	57	54	69	72	63	62	58	60	63	57	56	62	68	..	64.8
	Minimum	30	44	50	49	52	52	56	56	50	57	36	30	50	42	38	49	40	32	39	33	49	42	43	46	52	48	40	35	31	42	..	43.9
St. Louis (1)	Maximum	54	62	74	76	71	82	78	76	82	72	56	68	82	65	64	78	81	56	58	69	72	59	60	60	66	64	52	60	63	71	..	67.7
	Minimum	41	43	53	55	59	57	62	57	57	56	44	42	60	44	44	50	43	40	45	41	50	44	45	49	55	50	44	40	41	49	..	48.7
Unionville	Maximum	58	66	60	58	64	80	76	65	74	76	57	64	62	60	66	74	70	58	54	74	66	64	66	56	65	62	58	57	64	70	..	64.8
	Minimum	30	42	46	48	48	50	58	50	50	55	31	32	45	42	37	50	36	30	34	34	45	35	42	45	50	42	40	36	30	36	..	41.7
Warrenton §§	Maximum	59	66	70	73	73	89	77	71	83	70	46	74	81	50	65	81	78	60	53	72	73	62	62	55	60	54	49	59	65	72	..	66.8
	Minimum	31	36	44	49	50	54	55	58	54	55	43	37	40	48	40	43	52	33	37	37	40	40	39	45	51	53	41	38	37	40	..	44.0
Southeast Lowlands.																																	
Caruthersville	Maximum	65	65	81	85	76	89	83	83	83	84	68	81	85	85	72	91	81	78	78	81	86	65	71	76	72	76	69	68	75	82	..	78.2
	Minimum	41	45	50	58	60	66	64	63	60	62	55	51	65	55	45	56	70	44	45	42	49	55	46	56	62	60	49	50	49	48	..	54.1
Doniphan	Maximum	58	64	76	77	73	85	82	78	80	75	63	76	82	79	66	79	81	74	70	69	81	64	62	72	75	65	61	62	67	73	..	72.3
	Minimum	40	40	44	51	57	53	64	66	56	58	42	39	61	55	41	48	60	39	38	33	45	41	43	51	58	56	51	47	41	38	..	48.5
Jackson	Maximum	60	66	79	79	73	84	83	81	80	80	78	68	82	80	68	78	82	69	76	67	80	70	63	71	75	69	60	61	62	74	..	73.3
	Minimum	38	39	45	52	60	50	52	64	58	62	48	35	55	48	38	45	59	36	35	30	45	41	32	40	56	53	43	43	40	35	..	45.9
Poplar Bluff	Maximum	60	68	80	79	75	87	84	80	81	78	63	75	82	79	69	79	79	68	71	68	81	76	64	71	76	72	63	63	68	73	..	73.7
	Minimum	40	43	45	55	60	56	67	67	58	60	49	41	64	56	43	49	61	39	41	34	49	49	40	49	61	58	51	47	42	43	..	50.7
Cairo, Ill.	Maximum	54	65	74	75	71	81	79	78	76	78	61	70	78	74	65	77	77	57	69	63	73	59	62	69	70	66	58	59	63	71	..	69.1
	Minimum	41	46	55	61	59	59	66	59	60	60	51	48	63	50	48	56	47	44	49	45	54	49	47	53	58	58	48	47	47	51	..	52.6
Ozark Plateau.																																	
Arcadia §§	Maximum	61	66	79	75	69	86	81	77	82	72	56	72	83	71	66	74	82	57	64	73	78	65	61	70	69	63	51	60	65	70	..	69.9
	Minimum	31	38	47	49	53	51	58	66	56	59	43	33	43	63	38	41	51	36	37	29	39	41	34	40	52	53	45	42	36	33	..	44.7
Birchtree	Maximum	60	63	68	72	71	85	78	73	80	75	52	75	83	74	67	76	82	56	64	65	78	71	63	69	70	62	57	62	69	70	..	69.7
	Minimum	36	39	46	53	59	53	53	59	55	52	41	35	59	49	35	59	51	31	34	30	46	47	42	50	52	54	49	44	37	49	..	46.7
Eldon	Maximum	62	69	72	75	74	86	75	70	80	74	54	76	70	45	69	81	70	47	55	72	75	66	62	56	64	65	49	50	64	71	..	66.6
	Minimum	27	40	41	42	54	46	54	52	47	34	34	31	45	37	34	34	37	26	34	30	51	39	42	42	45	45	36	36	31	35	..	39.4
Farmington	Maximum	66	68	73	78	78	84	78	77	84	72	62	72	85	62	67	76	83	56	59	72	69	68	67	62	65	64	58	63	63	73	..	70.1
	Minimum	35	50	51	54	62	63	64	66	55	60	45	36	57	45	37	46	52	36	38	34	49	42	37	44	55	54	45	42	37	39	..	47.7
Hollister	Maximum	65	60	80	84	82	90	80	78	85	80	75	80	86	80	70	82	80	65	70	80	84	80	75	70	70	68	66	60	70	72	..	75.4
	Minimum	28	35	42	50	49	48	60	56	50	45	40	35	58	52	38	50	50	32	30	30	50	45	45	50	55	57	55	50	35	35	..	45.2
Koshkonong	Maximum	62	66	78	77	69	88	81	81	82	75	58	71	83	79	68	79	83	58	68	70	79	73	62	74	71	64	58	62	64	73	..	71.9
	Minimum	38	42	48	54	59	56	62	60	54	53	43	41	61	52	42	51	50	37	42	36	49	51	43	52	57	56	52	46	40	41	..	48.9
Lebanon §§	Maximum	65	70	76	76	71	87	79	76	82	72	68	87	81	57	71	78	76	62	58	71	78	75	61	56	65	61	50	64	68	72	..	70.4
	Minimum	30	34	49	48	53	54	54	60	53	60	38	36	39	53	37	40	65	30	30	34	37	45	44	47	47	53	47	41	35	38	..	41.4
Mountain Grove §§	Maximum	59	64	73	71	69	83	78	71	79	68	55	79	81	72	65	74	79	56	60	71	76	73	75	68	73	63	54	61	66	68	..	69.5
	Minimum	34	36	44	50	53	53	55	61	52	54	39	38	40	59	37	42	53	33	34	32	34	45	42	45	51	52	50	41	37	42	..	44.6
Neosho	Maximum	69	70	78	72	70	87	85	74	81	81	63	79	83	77	74	81	76	58	59	72	78	77	76	66	67	65	59	59	65	71	..	72.4
	Minimum	28	47	50	54	56	52	64	57	55	55	40	37	63	50	36	52	46	30	33	33	49	45	51	49	54	54	52	46	63	40	..	48.0
Rolla	Maximum	61	69	76	75	76	87	77	74	82	70	52	76	82	55	68	71	79	63	56	71	77	71	62	57	68	65	48	63	70	74	..	69.2
	Minimum	32	36	49	49	53	55	67	62	54	60	41	37	42	54	37	45	56	32	35	32	34	43	42	46	51	53	44	41	37	41	..	45.3
Springfield	Maximum	61	65	73	71	63	85	78	71	79	69	53	77	80	65	67	78	74	57	57	70	74	71	59	59	64	56	54	59	64	68	..	67.4
	Minimum	32	44	52	57	57	56	65	55	54	45	39	42	60	46	41	52	38	35	40	39	54	52	47	46	55	53	46	44	40	47	..	47.8
Southwest Plain.																																	
Amoret	Maximum	64	68	60	65	69	82	72	61	77	72	58	74	70	62	68	75	62	58	55	72	75	74	68	60	64	59	56	51	63	69	..	66.2
	Minimum	29	46	49	50	56	53	51	52	49	52	37	38	56	42	42	50	39	30	38	36	52	45	49	48	52	50	41	38	39	42	..	45.0
Appleton City	Maximum	64	68	66	70	70	85	77	68	76	70	58	74	73	66	69	77	65	57	57	72	75	73	69	59	63	60	58	57	64	72	..	67.7
	Minimum	31	46	52	51	58	55	56	56	51	58	39	39	60	44	41	53	43	33	40	38	53	48	50	48	55	52	43	42	40	45	..	47.3
Clinton	Maximum	65	69	65	73	72	90	83	69	78	82	60	76	77	74	70	80	64	51	57	73	78	76	68	64	63	64	61	57	67	77	..	70.2
	Minimum	30	48	53	52	50	55	59	57	50	60	40	38	62	45	42	54	43	32	42	39	65	49	50	49	55	53	43	41	42	45	..	48.1
Harrisonville §§	Maximum	62	67	54	63	72	84	66	63	76	63	59	76	70	63	62	76	47	60	55	76	74	71	62	54	61	61	44	50	63	69	..	64.1
	Minimum	31	34	49	51	50	54	57	52	49	51	38	39	42	43	42	46	46	30	33	37	41	47	47	49	49	51	42	39	39	41	..	44.0
Lamar §§	Maximum	67	66	72	70	66	87	74	67	79	71	60	78	76	60	72	82	60	59	59	73	80	78	63	58	65	57	53	59	66	71	..	68.3
	Minimum	30	34	48	50	52	53	57	59	57	59	38	38	60	45	37	44	54	31	35	35	43	48	49	47	48	53	50	43	42	44	..	46.1
Lamonte	Maximum	64	70	61	69	73	80	78	65	67	74	58	76	74	59	70	80	65	61	54	74	76	68	64	60	62	64	58	59	65	74	..	67.4
	Minimum	28	46	50	49	58	56	54	57	51	57	39	34	57	44	40	52	40	30	40	35	48	45	45	47	53	52	41	40	35	40	..	45.4
Marshall	Maximum	60	67	63	68	72	84	76	65	78	72	65	75	71	61	68	79	65	59	53	71	75	66	63	60	62	65	61	61	66	70	..	67.4
	Minimum	29	45	50	48	48	52	59	59	49	56	39	33	56	46	39	59	41	30	40	32	47	53	44	47	52	52	41	40	36	38	..	45.3
Nevada	Maximum	65	66	68	69	68	85	75	65	76	72	59	75	75	65	69	77	67	58	55	72	76	75	67	60	63	59	57	57	64	69	..	67.6
	Minimum	32	42	52	54	58	58	55	55	52	55	41	39	60	44	41	51	42	31	45	36	53	45	50	48	54	52	44	40	42	44	..	47.2
Warrensburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warsaw	Maximum	64	67	70	75	71	86	82	70	80	76	64	77	73	68	70	80	64	60	55	72	76	72	65	62	65	64	63	60	66	73	..	69.7
	Minimum	29	47	50	52	64	54	60	56	55	58	40	38	62	46	40	52	43	33	42	37	56	49	49	48	54	50	43	43	39	43	..	47.7
Northwest Plateau.																																	
Chillicothe §§	Maximum	60	66	54	62	75	83	69	63	76	74	48	72	65	61	68	74	45	59	51	75	72	66	63	54	61	64	46	60	64	70	..	64.0
	Minimum	28	33	48	50	51	54	56	55	49	51	37	33	41	43	39	47	44	30	36	36	42	42	44	46	47	45	43	38	34	41	..	42.8
Grant City	Maximum	62	69	66	59	61	84	80	70	75	75	69	63	63	65	69	73	71	65	63	78	75	72	70	63	66	66	63	59	66	72	..	68.4
	Minimum	27	45	50	49	52	50	49	50	51	50	34	33	43	41	46	50	34	28	34	34	45	41	44	48	48	43	41	39	36	41	..	42.5
Kansas City	Maximum	62	66	60	60	71	83	71	63	75	74	55	76	66	61	67	74	53	59	54	74	71	68	62	58	58	61	53	55	63	69	..	64.7
	Minimum	33	50	52	51	56	58	54	54	51	44	39	43	47	43	48	53	40	38	43	43	54	48	48	49	53	49	40	40	43	46	..	47.0
Kidder §§	Maximum	58	65	55	59	67	83	70	64	75	74	51	72	63	61	68	76	45	61	52	74	73	62	62	55	60	62	46	51	63	70	..	63.3
	Minimum	28	39	50	50	50	53	56	53	48	51	36	34	37	43	40	44	43	31	34	35	41	42	44	48	47	45	42	38	33	39	..	42.5
Lexington	Maximum	42	60	69	62	65	75	85	80	75	75	73	66	75	69	62	69	77	69	61	62	75	74	66	63	61	60	63	58	59	63	..	67.1
	Minimum	28	27	52	50	57	55	59	55	42	58	39	35	57	44	41	50	45	30	42	37	49	45	45	49	53	48	45	40	36	43	..	45.2
Maryville	Maximum	60	67	59	55	59	81	74	63	74	70	53	65	58	61	67	72	56	61	52	75	72	68	62	57	63	59	55	58	64	71	..	63.7
	Minimum	28	46	50	49	51	53	49	50	46	53	33	33	42	40	41	49	34	28	34	35	48	43	44	48	48	44	41	39	37	45	..	42.7
Oregon	Maximum	60	62	62	59	62	80	73	63	72	73	57	72	66	60	67	72	62	61	53	74	75	68	63	59	62	60	58	56	63	69	..	64.8
	Minimum	28	47	49	47	51	52	49	51	45	53	34	36	40	39	41	51	33	28	34	35	47	42	44	48	47	44	38	36	37	42	..	42.3
St. Joseph	Maximum	63	68	56	58	66	83	70	67	76	76	54	75	65	62	68	72	50	60	52	75	75	70	63	56	61	59	52	58	64	70	..	64.8
	Minimum	32	51	51	50	55	56	54	52	50	47	37	38	44	43	48	50	38	34	37	42	52	46	47	50	50	48	39	40	41	44	..	45.5
Trenton	Maximum	55	64	56	60	63	78	70	63	72	71	55	61	62	59	65	76	66	59	55	70	68	63	64	58	63	64	57	58	61	68	..	63.6
	Minimum	29	43	49	50	52	55	56	56	50	55	36	30	50	45	42	49	38	31	35	36	48	42	48	48	50	44	42	39	29	43	..	41.0

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^{a}, ^{b}, ^{c}, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVI. COLUMBIA, MO., MAY, 1922. No. 5.

GENERAL SUMMARY.

There were no marked or outstanding features about the weather of May, 1922, in Missouri. The month was somewhat warmer and drier than normal, though there were no uncomfortably hot spells, nor was the lack of moisture harmful to vegetation. Excessive heat, while not common in May, has obtained several times in the past 30 years or more. Last May, day temperatures reached 100° or higher at several stations, but this May 90° was the highest, if we except one station in the extreme Southeast, where 97° was recorded one afternoon. On the other hand, the first week of May rarely passes without the occurrence of frost forming temperatures, yet this May was an exception, the lowest temperature being 38°, and no frost.

The rainfall was, upon the whole, rather well distributed through the month, and because of this feature the deficiency, which averaged about 1.77 inches, caused little remark. There were two or three quite heavy local rains but no downpours anywhere.

The month was practically free from damaging storms, although hail caused some minor damage at a few widely separated points.

The weather was, as a rule, favorable for all crops, and field work was well in hand at the close of the month.

TEMPERATURE.

The monthly mean temperature for the State, 69 stations reporting, was 67.2°. The departure from the normal for 67 stations having 10 or more years' record was plus 2.3°. The excess in warmth was quite uniformly distributed but there were no excessively hot days. As a rule the first 13 days were somewhat warmer than normal; the following week was in the main cooler than normal, while the remainder of the month, with the exception of the 31st, was a few degrees warmer than usual. The temperature reached 90° or higher at two stations. In comparison it was a much more pleasant month than May, 1921.

PRECIPITATION.

The average precipitation for the State, 87 stations reporting, was 3.17 inches. The departure from the normal for 78 stations having 10 or more years' record was minus 1.77 inches, and in this respect the month differed but little from May, 1921. The moisture was deficient in all sections, but at the same time it was sufficient for needs. as the preceding month of April was very wet. A few localities, most of them in the northwest section, received normal or above normal amounts. Though light to moderate as a rule, showers fell almost daily in some parts of the State. The heaviest local monthly amount was 6.86 inches, at Oregon, and the least was 1.01 inches, at Poplar Bluff. The greatest amount in 24 consecutive hours was 2.50 inches, at Seligman, Barry County.

WIND.

The prevailing winds were from the southeast. The average wind movement was 6,284 miles, based upon records of 8 well-placed stations equipped with anemometers. The average hourly velocity was 8.4 miles, or slightly below normal.

SUNSHINE AND CLOUDINESS.

The average number of clear days was 14, 3 less than last May. The average number of hours of sunshine was 296, or about 67 per cent of the possible and about 4 per cent more than normal. This May received about 7 per cent less sunshine than May, 1921, and about 15 per cent more than the same month in 1920.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---May 3rd.

Hail.---5th, and 16th.

Halos, solar.---3rd, 4th, 5th, 7th, 8th, 9th, 10th, 11th, 13th, 15th, 17th, and 20th.

Halos, lunar.---2nd, 3rd, 4th, 7th, 8th, 9th, 10th, and 31st.

Thunderstorms.---5th, 6th, 8th, 10th, 11th, 12th, 14th, 16th, 22nd, 23rd, 24th, 25th, 26th, 27th, 30th.

SPECIAL STORM NOTES.

Macon.---Hail fell here on the 5th, but no damage.

St. Catherine.---Hail stones one inch in diameter fell at about 11:55 a.m. on the 6th, and covered the ground. One mile west of this station the hail drifted and was not melted at 12 m. of the following day.

Steffenville.---Hail fell here on the 6th, and 16th.

Seligman.---A heavy rain fell here on the 31st, and washed many fields.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.91	86	70	298	67	5,044	6.8	31	nw.	18
Hannibal	29.92	79	..	...	..	5,966	8.0	27	sw.	24
Kansas City	29.90	76	58	321	72	7,496	10.1	38	nw.	18
St. Joseph	29 89	80	56	282	63	6,053	8.1	31	nw.	18
St. Louis	29.92	72	63	323	75	8,547	11.5	37	sw.	6
Springfield	29.92	80	64	264	60	6,859	9.2	30	s.	8
Cairo, Ill	29.92	78	62	...	..	5,260	7.1	25	nw.	18
Keokuk, Iowa	29.93	74	59	289	65	5,049	6.8	37	sw.	5

COMPARATIVE DATA FOR MAY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	62.1	−2.3	93	30	5.35	+0.58	......	0	5	....	....	....
1889	63.5	−0.9	96	28	6.56	+1.79	......	0	5	....	....	....
1890	62.8	−1.6	96	32	3.47	−1.30	......	0	6	....	....	....
1891	61.5	−2.9	97	28	4.26	−0.51	......	0	8	....	....	....
1892	60.7	−3.7	91	28	7.80	+3.03	3.90	0	17	5	9	17
1893	66.8	−2.6	94	30	5.89	+1.12	5.83	0	10	11	11	9
1894	63.7	−0.7	95	22	3.99	−0.78	4.20	0	8	13	11	7
1895	64.6	+0.2	103	28	4.08	−0.69	3.43	0	9	13	12	6
1896	70.1	+5.7	96	32	9.09	+4.32	4.66	0	12	12	12	7
1897	62.4	−2.0	93	28	2.56	−2.21	3.82	0	7	16	11	4
1898	65.2	+0.8	97	31	7.90	+3.13	5.50	0	14	12	10	9
1899	66.9	+2.5	96	34	6.26	+1.49	5.28	0	2	10	13	8
1900	66.3	+1.9	97	29	3.69	−1.06	4.00	0	10	14	11	6
1901	63.8	−0.6	98	30	1.47	−3.30	3.04	0	6	15	10	6
1902	69.4	+5.0	98	39	5.03	+0.25	4.35	0	11	13	11	7
1903	65.1	+0.7	92	23	7.10	+2.33	3.10	0	15	9	10	12
1904	63.1	−1.3	95	32	5.03	+0.26	4.33	0	12	13	10	8
1905	64.9	+0.5	94	34	4.87	+0.10	4.55	0	10	12	11	8
1906	66.3	+1.9	98	27	2.16	−2.61	3.83	0	7	15	10	6
1907	59.5	−4.9	91	17	5.56	+0.79	4.33	0	10	14	6	11
1908	66.1	+1.7	96	24	6.92	+2.15	5.65	0	12	12	10	9
1909	63.3	−1.1	96	23	5.34	+0.57	5.26	0	9	15	9	7
1910	60.1	−4.3	94	32	6.62	+1.85	4.30	0	13	11	8	12
1911	68.8	+4 4	101	27	1.55	−3.22	2.06	0	5	19	7	5
1912	67.6	+3.2	97	30	3.86	−0.91	4.90	0	7	18	8	5
1913	65.8	+1.3	101	33	3.05	−1.93	2.95	0	8	16	7	8
1914	66.6	+2.0	98	31	1.47	−3.40	3.00	0	5	17	9	5
1915	63.7	−1.4	97	30	7.86	+3.04	7.10	0	12	12	7	12
1916	65.6	+0.7	96	33	5.61	+0.89	4.10	0	11	15	8	8
1917	58.7	−6.2	91	30	4.33	−0.47	2.60	0	10	15	7	9
1918	68.3	+3.8	100	28	5.49	+0.68	5.25	0	10	16	8	7
1919	62.0	−2.5	93	35	5.80	+0.87	4.50	0	13	10	10	11
1920	63.8	−0.8	97	32	4.85	+0.04	3.70	0	12	9	9	13
1921	66.4	+2.0	102	28	3.69	−1.20	4.12	0	7	17	8	6
1922	67.2	+2.3	97	38	3.17	−1.77	2.50	0	10	14	10	7
....	.....	....	.....	......	......	....	......	....	....	....	....	....
....	.....	....	.....	......	......	....	......	....	....	....	....	....
....	.....	....	.....	......	......	....	......	....	....	...	....	....

Climatological Data for May, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	68.0	+ 3.6	87	10†	46	19	36	4.23	−0.70	1.25	0	10	17	0	14	se.	O. K. Benecke
Clifton Hill	Randolph	731	22	65.1	+ 0.9	84	30	43	3	34	1.82	−3.48	0.32	0	11	16	13	2	......	Dr. A. J. Bradsher
Columbia	Boone	748	31	66.2	+ 1.6	87	11	47	15	32	4 34	−0.52	1.13	0	15	10	9	12	se.	U. S. Weather Bureau
Downing	Schuyler	878	11	66.5	......	89	10	46	19	31	3.81	−0.77	1.01	0	12	17	10	4	s.	E. E. St. Clair
Fayette††	Howard	661	38	64 2	− 0.3	84	29	43	19†	33	2.58	−2.07	1.20	0	7	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	29	67.1	+ 2.0	86	11†	46	15†	32	3.07	−1.61	1.47	0	12	9	19	3	se.	Westminster College
Gorin	Scotland	700	34	....	......	..	..	..	..	..	3.71	−0.87	0.95	0	11	6	11	14	se.	J. W. Pulliam
Hannibal	Marion	534	37	67.4	+ 3.0	87	11	48	20	28	2.44	−2.56	0.84	0	17	10	14	7	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	67.2	+ 2.3	88	11	48	20	30	3.88	−0.67	1.20	0	9	20	6	5	s.	Miss Emma Swift
Kirksville	Adair	969	39	64.8	+ 2.4	85	10	38	18	36	5.32	+0.03	1.36	0	10	15	9	7	s.	Prof. J. S. Stokes
Louisiana	Pike	469	40	67.4	+ 3.5	88	12	42	1	35	2.22	−2.30	0.52	0	10	19	8	4	w.	J. T. Farrell
Macon	Macon	875	28	66.4	+ 2.3	87	10†	43	19	36	3.15	−1.72	1.09	0	12	18	9	4	se.	W. C. Brown
Mexico	Audrain	800	43	66.6	+ 2.1	88	11	45	15†	35	1.67	−3.06	0.40	0	11	18	8	5	s.	Mrs. Abbie Snoddy
Palmyra ††	Marion	652	22	66.4	0.0	88	11	43	1	31	1.52	−3.52	0.66	0	11	14	10	7	se.	W. B. Markell
St. Catherine	Linn	800	12	65.4	+ 2.9	84	10	43	19	33	3.91	......	1.23	0	14	8	18	5	s.	L. D. Baker
St. Charles	St. Charles	456	43	68.4	+ 6.0	88	12†	46	1	31	1.96	−2.29	0.76	0	7	15	8	8	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	69.4	+ 2.5	88	11	54	19	22	1.26	−2.98	0.38	0	6	7	18	6	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	68.1	+ 2.0	87	11	51	19	23	1.06	−3.18	0.35	0	8	12	13	6	se.	St. Louis University
Shelbina	Shelby	779	28	....	......	..	..	..	..	..	3.17	−1.99	1.10	0	6	..	..	..	......	S. G. Parsons
Steffenville	Lewis	650	28	67.3	+ 3.0	89	30	38	1	32	2.52	−2.51	0.65	0	7	11	17	3	e.	Frank Hall
Unionville	Putnam	1,062	28	65.0	+ 2.4	85	10	44	15	34	4.71	−1.30	1.75	0	10	13	7	11	nw.	Geo. W. Davis
Warrenton	Warren	816	31	67.3	+ 2.2	89	11	47	1†	31	2.29	−2.34	0.97	0	11	17	11	3	se.	Prof. A. W. Eberling
Keokuk, Iowa	Lee, Ia.	574	49	66.4	+ 3.2	87	10	49	19	26	2.44	−1.81	0.56	0	15	8	13	10	e.	U. S. Weather Bureau
Section means and	extremes	.....	..	66.7	+ 2.4	89	10†	38	1†	36	2.93	−1.91	1.75	0	11	13	11	7	se.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	75.2	+ 5.7	97	26	53	19	33	3.06	−1.20	1.15	0	8	21	3	7	e.	H. E. Averill
Doniphan	Ripley	344	17	69.0	+ 2.1	89	26	45	19	35	2.79	−1.37	0.90	0	10	17	7	7	sw.	W. W. Martin
Jackson	Cape Girardeau	428	31	69.8	+ 4.0	89	6†	44	19†	38	2.23	−2.13	1.00	0	12	6	10	15	s.	John G. Putz
Marble Hill	Bollinger	470	27	68.0	+ 2.3	86	10†	43	19†	41	2.16	−2.07	1.37	0	4	11	18	2	s.	R. A. DeWitt
Parma	New Madrid	281	..	....	......	..	..	..	..	..	2 38	......	0.76	0	6	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	11	....	......	..	..	..	..	..	1.14	−3.64	0 85	0	2	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	329	17	70.2	+ 2.2	88	27	49	1	30	1.01	−4.02	0.26	0	9	17	7	7	s.	Rev. John H. Gallaher.
Vanduser	Scott	304	..	....	......	..	..	..	..	..	2.64	......	1.34	0	8	23	0	8	.....	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	70.4	+ 2.9	87	10	54	19	22	2.65	−1.18	1.19	0	12	6	10	15	se.	U. S. Weather Bureau
Section means and	extremes	....	..	70.4	+ 3.2	97	26	43	19†	41	2.23	−2.23	1.37	0	8	14	8	9	s	
Ozark Plateau.																				
Arcadia	Iron	926	43	65.7	+ 1.1	87	11	43	20	36	2.24	−2.54	0.90	0	8	14	11	6	s.	Arcadia College
Birchtree	Shannon	1,000	28	66.8	+ 1.6	86	27	44	17	32	1.95	−2.36	0.52	0	9	19	9	3	se.	V. H. Kirkendall
Bolivar	Polk	1,071	32	66.6	+ 1.7	87	10	44	12	31	5.37	−0.05	1.30	0	10	20	8	3	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	65.7	− 0.1	87	21	40	17	38	6 25	+0.29	2.24	0	16	20	6	5	se.	H. E. Dean
Eldon	Miller	934	22	65.9‡	+ 1.4	87	10	..	..	34	2.58	−2.28	0.54	0	7	10^{b}	8^{b}	11^{b}	s.	E. H. Shepherd
Farmington	St. Francois	918	24	67.8	+ 4.0	90	11	43	20	40	2.76	−2.74	0.64	0	9	11	17	3	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	65.4	+ 0.1	85	11	41	20	40	1.76	−2.78	0.69	0	8	16	11	4	se.	A. C. Leach
Goodland	Iron	1,000	28	65.2	+ 0.7	86	11	42	15	38	1.38	−3.24	0.42	0	5	14	16	1	s.	F. M Adams
Greenville	Wayne	381	..	....	...	..	..	42	19	..	2.23	......	0.60	0	10	21	6	4	s	J. J. Amen.
Hollister	Taney	735	18	66.4	− 0.9	88	28	40	17	38	4.55	+0.32	1.05	0	7	13	10	8	sw	W. P. Chapmann
Houston	Texas	1,280	29	66.2	+ 1.3	85	9†	39	19	40	1.24	−2.85	0.51	0	4	14	12	5	ne.	Walter T. Beard
Koshkonong	Oregon	958	20	69.1^{b}	+ 2.3	89	27	48	17	28	1.76	−3.08	0.60	0	9	6^{c}	11^{c}	11^{c}	nw.	R. M. Hitt
Lebanon	Laclede	1,265	34	66 8	+ 1.2	87	10†	42	19	41	1.92	−3.69	0.40	0	15	20	8	3	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	67.0	+ 2.4	85	26†	47	19	31	3.51	−1.57	1.25	0	8	13	10	8	sw	C. S. Crow
Mountain Grove	Wright	1,463	25	65.8	+ 1.9	87	27	45	15†	33	3.21	−1.64	0.72	0	12	9	7	15	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	67.0	+ 0.8	87	21	42	7	38	4.19	−1.88	0.80	0	15	19	10	2	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	68.1	+ 3.6	88	10	45	19	32	2 81	−2.20	0 62	0	9	16	10	5	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	15	66.2	+ 1.3	83	21†	46	14	30	5.01	−0.58	2.50	0	15	12	14	5	se.	Floyd E. Fawver
Seymour	Webster	1,642	16	67.6	+ 3.5	84	10	39	19	34	2.15	−3.55	0.98	0	8	12	16	3	se.	Ira H. Hailey
Springfield	Greene	1,350	42	66.4	+ 1.8	83	10	50	17	25	3.94	−1.61	1.56	0	12	15	11	5	se.	U. S. Weather Bureau
Section maens and	extremes	.....	..	66.6	+ 1.6	90	11	39	19	41	3.04	−2.00	2.50	0	10	15	11	5	se.	
Southwest Plain.																				
Amoret	Bates	831	15	65.4	+ 1.9	84	21	45	19	34	3.27	−1.55	0.68	0	12	12	9	10	se.	Darby Fruit Farm
Appleton City	St. Clair	853	29	67.2	+ 2.2	85	10	49	14†	30	2.62	−2.92	0.82	0	10	15	15	1	se.	W. G. Bigelow
Clinton	Henry	765	34	69.1^{b}	+ 3.9	88	21†	45	1†	35	3.16	−2.28	0.80	0	8	13^{b}	14^{b}	2^{b}	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	46	66.2	+ 2.2	84	5	45	19	33	3.05	−1.76	0.79	0	11	10	13	8	se.	John H. Patterson
Lamar	Barton	980	40	67.5	+ 1.6	87	21†	44	19	37	2.95	−2.51	0 98	0	12	19	5	7	se.	Joe W. Springer
Lamonte	Pettis	867	35	67.0	+ 2.3	86	10	45	19	34	3.40	−1.55	1.40	0	13	17	4	10	se.	J. E. Wheeler
Marshall	Saline	779	32	66.6^{a}	+ 2.5	85	11	42	19	34	6.48	+1.62	1.90	0	10	13	12	6	sw.	Dr. W. H. Black
Nevada	Vernon	862	30	66.2	+ 1.6	83	10†	47	13†	29	3.03	−2.69	1 37	0	9	17	9	5	s.	George A. Kaupp
Warsaw	Benton	687	26	67.2	+ 1.4	86	10†	42	19	35	3.02	−2.21	0.40	0	12	10	21	0	e.	J. R. Smith, M. D.
Section means and	extremes	.....	..	66.9	+ 2.2	88	21†	42	19	37	3.45	−1.79	1.90	0	10	14	12	5	se.	
Northwest Plateau.																				
Avalon	Livingston	730	24	67.0	+ 3.8	85	21	46	19	30	3.35	−1.86	2.25	0	5	16	9	6	.	F. G. Ashbaugh
Bethany	Harrison	916	30	64.8	+ 2.4	85	21	40	13†	38	4.32	−0.80	1.23	0	11	9	11	11	nw.	M. H. Moulton
Chillicothe	Livingston	779	13	65.5	+ 2.4	86	21	43	15	36	3.46	−2.04	1 02	0	9	20	3	8	e.	Wm. J. Olenhouse
Conception	Nodaway	980	37	65.2	+ 3.5	87	8	43	19	32	5.50	+0.80	1.55	0	11	8	14	9	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	9	65.6^{a}	.....	85	5	40	7†	39	5.49	−0.47	1.95	0	14	14^{c}	3^{c}	11^{c}	w.	Fred L. Stiff
Grant City	Worth	1,134	30	65.6	+ 3.5	88	11	42	19	34	5.56	+0.84	1.25	0	9	19	8	4	s.	B. F. Locke
Kansas City	Jackson	963	32	66.8	+ 2.3	83	5	49	19	25	2.83	−2.28	0.85	0	13	9	14	8	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	34	65.2	+ 2.2	84	10†	42	19	35	3.10	−2.45	1.39	0	8	18	4	9	ne.	Linn Terry
Lexington	Lafayette	688	39	67.0	+ 2.6	85	31	46	19	31	2.60	−2.46	0.96	0	13	10	11	10	s.	Edwin G. Loomis
Liberty	Clay	859	31	67.0	+ 2.3	85	5†	45	16†	35	2.38	−2.77	1.09	0	9	12	14	5	sw.	James H. Harris
Maryville	Nodaway	1,169	27	64.4	+ 3.4	84	3†	43	7†	35	4.43	−1 50	0.82	0	14	11	2	18	s.	J. R. Brink
Oregon	Holt	1,048	66	62.8	− 0.5	83	5†	39	18	32	6.86	+1.96	1.58	0	10	9	16	6	nw.	Tom Curry
St. Joseph	Buchanan	967	49	66.0	+ 1.5	85	5	47	19	30	6.56	+2.22	1.94	0	12	9	15	7	nw.	U. S Weather Bureau
Tarkio	Atchison	916	28	63.6	0.0	85	5	41	5†	44	2.98	−1.83	0.85	0	8	12	14	5	w.	Albert Volker
Trenton	Grundy	822	26	65.8	+ 1.9	86	11	46	19	30	3.95	−1.52	1.74	0	12	17	9	5	e.	W. H. Estes
Section means and	extremes	.....	..	65.5	+ 2.2	88	11	39	18	44	4.22	−0.94	2.25	0	11	13	10	8	s.	
State means and	extremes	.....	..	67.2	+ 2.3	97	26	38	1†	44	3.17	−1.77	2.50	0	10	14	10	7	se.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5. ‡ Indicates plus.

Daily Precipitation for May, 1922.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri		T.				.26		.13				.30				.17	.26	T.					1.04	.16	.32	.02		.32			.16	3.14
Brunswick‖	Grand		.05				.16		.12								.10	.43	.05					.92	1.25	.25						.90	4.22
Clifton Hill	Chariton	T.			T.		.32		.18			T.		.10			.17		.04				.25	.21	.19	.05	.06	T.				.25	1.82
Columbia***	Missouri	T.	T.				1.13		.05	.10		.16		T.		.11	.52	.03	.01				.33	.50	.38	.04	.10				.48	.40	4.34
Downing	Mississippi	.01	T.				.35		.30								.01		.44				.26	.33	1.01	.16	.27	.28				.39	3.81
Fayette‖	Missouri						.58		.16			.03		T.				T.	T.				.28	.30	1.20		.03				T.	T.	2.58
Fulton	do						1.47			.01			.04		.03		.66	.03	.18				.02	.11	.21	.08	.23						3.07
Gorin							.27		.08		.06						.25		.42				.73	.26	.95		.26	.05				.38	3.71
Hannibal***	Mississippi		.04	.01		.38	.07		T.		.04	.32	.01	T.	.01	.02	.26	.17	.11				.01	.11	T.	.01	.83	T.				.04	2.44
Hermann‖	Missouri			.02			.70	.13				.20	.05		.11		.20	.21	.04							.02						.08	1.76
Jefferson City‖	do						.20			.05							.35	.45						.58	1.20		.28	.17				.60	3.88
Kirksville	Mississippi						.53		.31								.38		.45				.29	.60	1.36	.10	.90					.40	5.32
Louisiana	do			.42			.06			T.		.30	.05		T.		.52	.23	.32					T.		T.	.15	.05				.12	2.22
Macon ‖	Chariton		.03				1.09		.14						.02		.04	.07	.21					.47	.05	.13	T.	.49				.41	3.15
Mexico ‖	Mississippi		.01	.05			.40				.08	T.					.38	.20	.03					.04		.10	.10					.28	1 67
Pacific‖	Meramec			.17			.47	.17			T.	.08	.04			.02	T.	.29	.24	.04				T.	.04								1.56
Palmyra‖	Mississippi			.07			.66		.05				.15			.04	.12	.09						T.			.12	.04			.06	.12	1.52
St. Catherine	Grand	.05				.04	.75		.14		T.	T.		T.	T.		.06	.05	.22				.44	1.23	.45	.05	.02				.07	.34	3.91
St. Charles	Missouri		T.				.22			.02		.18			T.		.27		.22							.29	.76						1.96
St. Louis (1)***	Mississippi		.38				.22				.14				T.		.11		.23				T.	T.	T	.18	T.						1.26
St. Louis (2)	do		.35				.21				.05		T.		T		.08		.18				.01	T.	.05	.13	T.						1.06
Shelbina	do					.50					1.10													.30	.20		.90				.17		3.17
Steffenville	do						.25		.20		.25	T.		T.			.65		.35				.02	.20	T.	T.	T.					.60	2.52
Union‖	Meramec			.09			60	.06			.01	.02	.11		.02		.09	.42	.11					.02		.07		.87					2.49
Unionville	Chariton	T.					.70			.10		.35					T.		.50				.70	.80	.95	.06	.10				.45		4.71
Valley Park‖	Meramec			.28			.35			T.			.11				T.	T.	.27					T.		.05	.10	.13					1.29
Warrenton ‖	Mississippi			.07			.97			.03		.17	.02		.13	.04	.16	.22	.12							.36						T.	2.29
Keokuk, Ia.***	do	T.	.03			.22	T.		.56			.15	.04	T.	.14		.19	.42	.05				.07	T.	.16	.04	.17				.05	.15	2.44
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi			.25	.16			.09			.28	.05	.07	.16	.14				.03					1.30	.03	.10	.25	.03					2.94
Caruthersville	do		1.15			.36	.33						.12		.12		T.						.32	.28				.38					3.06
Doniphan	Black		.28		.25		.30			.03				T.	.20		.08						.60		.05	.10						.90	2.79
Jackson	Mississippi		.29		.11					.07			.02		.05		.13	.04					1.00	.10		.35	.01	.06					2.23
Marble Hill	do		.31		.38					.10													1.37										2.16
New Madrid‖	do			1.10		.22		.10						1.75	.10			.04						.50	.02			.22	.53				4.58
Parma	do		.55			.56	.12								.09								.30			.76							2.38
Patton (near)	do		.29																				.85										1.14
Poplar Bluff	Black		.10		.08	.15	20			T.	.09			.06			.04		T.				.26			.03							1.01
Vanduser	Mississippi		.26		.10		.14			.01	1.34			.02									.46			.31							2.64
Cairo, Ill.***	do		1.19		.02	T.	.03				.10		.02	T.	.10		.02		T.		T.	.46	.30	T.		.15	.09	.17					2.65
Ozark Plateau.																																	
Arcadia ‖	St. Francis			.18	T.	.13		.04			T.				.19	T.	T.	.26				T.		.90			.49	.05					2.24
Birchtree	Gasconade		.08		.12		.15							.24			.20	.06					.38						.20			.52	1.95
Bolivar	Black			1.30									.30	.31			.39		.05		T.		.50	.77	.96	.04						.75	5.37
Dean	Osage		.06	2.24	.04		.02		.38		.10	.38					.28	.05			.27	.32	.69	1.36	T.	.01		.02				.03	6.25
Eldon	Neosho			.40			32						T.				.41						.36	.54	.35			.20					2.58
Farmington	Osage		.21		.17		.39			T.	T.		.03		.64		.27				T.		.43			.25	.37						2.76
Gano	St. Francis		.05				.28						.22				.37	.32	.08				.30		.14	T.		T.					1.76
Goodland	Meramec		.35		.02		.25				.42												.34										1.38
Greenville ‖	St. Francis			.19		.25		.11			.01				.49		.01	.04						.30		.60	.23						2.23
Hollister	Black			.50			1.05							.30			1.00						.45				.60	.65					4.55
Houston	White		T.			T.			T.			.51	.30			.20									T.	.23							1.24
Jerome ‖	Gasconade		.05				.19						.27				.23	.28				T.	.24	.04	.12	.05	.06						1.53
Koshkonong	Black		.06		.60		.52			.08				.10			.05						.20	.06	T.			.09					1.76
Lebanon ‖	Osage	T.	T.	.02	.40		.02								.11		.15	.25	.02			.04	.21	.10	.20	.10	.01		.25			.04	1.92
Lockwood	do		T.	.28			.25		.51			T.			.08	.11							T.	1.25	.28	T.						.75	3.51
Mountain Grove‖	White	T.		.10	.68			.06					.32		.26		T.	.32					.18	.06	.72	.32	.14		.05				3.21
Neosho	Neosho	T.	.05	.23	T.		.22		.64		T.		1	.10	.05	.02	.42	.17				.10	.80	.78	.05	T.		.51	T.			.05	4.19
Rolla	Meramec		T.	.06			.28					.60		.06		.21	.62				T.	T	.40	.04	.54	T.							2.81
Seligman	Barry			.14			.08		.15		02	.05			.08	.14	.09	.08			.12		.46	.24	.03			.83				2.50	5.01
Seymour	White		T.	.18										.06	.04		.26		.03					.05	.55			.98					2.15
Springfield***	do	T.	T.	.51			.05		.13		T.			.20	.01	.05	.11						1.04	1.45	.24						.06	.09	3.94
Steelville‖	Meramec			.02			.27			.05	.02						.01	.53						.17		.41	.04		.05				1.57
Tuscumbia ‖	Osage	T.			.02		.32						.03				.31	.04					.38	.10	.44	52						.05	2.21
Southwest Plain.																																	
Amoret	Osage	.03	.05	T.	T.		.66		.05							.07	.08	T.					.68	.65	.11	.75					.03	.11	3.27
Appleton City	do		T.				.48		.10		.04	T.			T.	T.	.13		.07				.82	.57	.03	.12						.26	2.62
Clinton	do						.55	.10									.18	.15					.63	.45	.30							.80	3.16
Harrisonville‖	do	.06					.66		.05						.04		.02		.07				.32	.21	.79	.05	.78						3.05
Lamar ‖	Neosho				.30		.20		.35	.03			.98		.02		.12	.10					.37	.11	.17	.20							2.95
Lamonte	Missouri	.06					.39		.06		.10				T.		.18	.02					1 40	.86	.14	.02		03			.11	.03	3.40
Marshall	do	.06					.25	.10			T.			T.		T.	T.						1.90	1.65	.60	.10		.15			1.61	.06	6.48
Nevada	Osage	T.	T.	.27			.06		.27		T.						.45	.17					1.37	.29	.06	.09						T.	3.03
Osceola‖	do				.06		.25		.23				.89		.04		.26	.06	.10				.27	.76	.06	.04						.08	3.10
Warsaw	Osage	T.					.40		.22		T.	.25	.23		.10		.20		.04		T.		.40	.31	.30	.24					T.	.33	3.02
Waverly ‖	Missouri	.06	T.				.10		.09			.05					.08	.14					T.	1.10	.19	.24	.08					.36	2.49
Northwest Plateau.																																	
Avalon	Grand																.50						1.10	.15	1.00					.60			3.35
Bethany	do	.20	T.	.60			T.		.23		T.	T.					T.	T.	.25				.62	.89	1.23	.16	.03	.02			.15	T.	4.32
Chillicothe ‖	do		.09						.09									.03	T.					.97	.47	1.02	.07	.06	T.			.66	3.46
Conception	Missouri	.25	.04			T.			.14			T.					.36	.16					.70	.91	1.55	.60		.10			.69		5.50
Edgerton	Grand	.30	T.	T.	T.		.04		.28			T.			.10	T.	.07		.02		T.		.65	1.95	.17	.72	.01	.41			.71	.06	5.49
Grant City	do	.23	.04	.63													.26						.92	.93	1.25	.30					1.00		5.56
Kansas City***	Missouri	.14	T.				.08		.20			T.			T.	.04	.05	.01					.66	.24	.68	.45		.05			.22	.01	2.83
Kidder ‖	Grand	.05	.05						.20															.28	1.39	.13	.56					.44	3.10
Lexington	Missouri	.22		.11			.07		.10						.07		.06		.10				.05	.96	.35	.05	.22					.24	2.60
Liberty	do						.06					T				T.	.02						1.09	.24	.18	.15	.11	.01	T.			.52	2.38
Maryville	do	.09	.19	.09	.23		.03		.20														.18	.82	.52	.42	.50		.18		.43	.55	4.43
Oregon	do	.27				.08										.41					.12		**	**	**	4.40	T.			**	1.58		6.86
St. Joseph***	do	.44	T.			.29			.36			T.				.02	.01	T.					.96	1.94	.31	.83	.01	T.		.09	1.30		6.56
Tarkio	do	.31				.40			.14									T.					.65	.85	.16	.35					.12		2.98
Trenton	Grand	.06	T.			T.	.06		.05		.02	T.				T.	.11	.21					.67	1.74	.75	.12	.03	T.			.13		3.95

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for May, 1922.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	74	73	82	76	85	81	79	83	86	87	87	79	79	74	72	73	79	72	75	81	86	73	78	81	79	83	85	83	87	86	71	79.6
	Minimum	52	54	53	54	49	56	48	60	60	68	70	55	49	52	46	52	48	51	46	48	55	64	68	67	64	66	64	59	59	58	55	56.5
Columbia	Maximum	73	65	78	72	81	77	74	83	83	86	87	76	77	72	70	69	74	69	69	77	81	71	74	78	78	78	78	79	80	82	65	76.0
	Minimum	54	56	53	54	49	58	48	60	68	68	66	54	49	52	47	50	48	50	47	47	61	64	62	62	62	63	63	58	59	60	56	56.4
Fayette§§	Maximum	70	64	76	72	80	75	73	79	79	82	80	74	74	69	68	63	72	67	69	76	80	69	71	73	74	80	78	80	84	82	65	74.1
	Minimum	50	53	48	53	47	58	46	57	65	67	63	54	45	52	44	48	44	50	43	43	56	63	59	61	59	62	64	58	58	57	55	54.3
Hannibal	Maximum	71	67	77	73	79	77	74	83	84	85	87	78	78	72	73	67	75	66	66	76	80	79	78	82	80	77	78	79	81	83	66	76.5
	Minimum	52	58	54	57	53	62	51	62	69	70	66	57	52	55	49	52	50	55	50	48	57	61	64	65	67	65	65	60	59	65	57	58.3
Jefferson City §§	Maximum	72	67	80	80	82	80	79	84	84	85	88	78	79	77	72	65	73	77	69	78	82	72	80	79	78	82	82	80	84	82	60	77.7
	Minimum	52	55	53	53	53	57	53	55	63	60	65	64	51	53	49	54	52	53	53	48	52	62	62	63	62	63	61	62	56	56	60	56.6
Kirksville	Maximum	67	71	80	75	80	75	75	80	83	85	84	76	76	71	73	76	78	67	69	78	78	71	75	76	77	73	77	76	81	83	70	76.0
	Minimum	48	53	51	57	52	58	47	56	64	61	62	53	49	52	45	48	51	38	44	42	54	53	61	61	62	62	62	53	53	58	52	53.6
Louisiana	Maximum	71	73	75	80	80	80	80	80	85	87	86	88	80	80	78	76	75	70	68	73	80	78	80	82	84	83	84	82	82	82	86	79.6
	Minimum	42	52	55	55	55	62	55	48	64	68	62	62	47	45	44	55	45	55	52	44	52	50	65	66	64	62	64	65	52	45	58	55.2
Macon §§	Maximum	71	71	81	76	84	78	78	81	85	87	87	78	80	73	76	73	78	70	70	81	85	80	78	79	79	80	82	83	85	84	64	78.6
	Minimum	49	53	52	52	48	57	46	56	56	64	64	53	48	52	45	52	47	50	43	48	53	58	61	63	61	62	63	53	55	58	54	54.1
Mexico §§	Maximum	75	68	80	71	83	80	77	84	86	87	88	80	80	76	75	72	77	69	70	78	83	78	77	83	81	83	81	81	83	85	61	78.5
	Minimum	50	52	52	54	48	55	49	58	61	66	65	57	48	50	45	52	48	48	46	45	56	59	62	63	60	61	61	54	55	59	55	54.6
St. Catherine	Maximum	67	69	76	74	79	77	75	79	81	84	82	76	79	74	75	71	77	69	69	76	79	78	74	77	74	76	77	76	82	82	65	75.8
	Minimum	52	54	53	55	50	58	48	58	65	66	66	53	46	53	45	50	45	48	43	48	58	61	61	62	63	62	61	55	57	60	52	55.1
St. Louis (1)	Maximum	72	69	76	77	79	80	74	82	83	84	88	80	78	74	73	65	74	70	68	78	79	77	78	82	81	82	81	80	83	83	79	77.7
	Minimum	56	59	60	60	57	61	60	60	66	67	67	65	63	57	57	57	54	58	54	57	60	63	64	66	67	66	65	58	62	67	62	61.1
Unionville	Maximum	65	72	80	74	82	76	75	81	82	85	84	76	75	70	71	72	70	68	70	80	82	80	75	78	78	77	80	80	84	82	70	76.6
	Minimum	50	52	51	50	51	55	45	56	65	66	66	50	46	48	44	50	47	48	45	46	52	56	65	60	62	60	60	51	52	57	50	53.4
Warrenton §§	Maximum	73	67	80	75	83	79	76	80	85	84	89	88	80	74	73	69	77	69	70	79	82	76	77	80	83	82	81	81	84	86	65	78.3
	Minimum	47	54	56	56	52	57	53	56	62	66	63	60	52	54	49	53	48	54	47	51	57	59	62	61	63	61	60	55	58	58	62	56.3
Southeast Lowlands.																																	
Caruthersville	Maximum	80	67	78	80	88	76	92	93	93	94	93	88	90	88	78	85	86	83	86	89	96	83	86	93	86	97	92	92	92	94	93	87.5
	Minimum	54	60	62	60	66	65	62	63	68	70	67	69	62	58	56	55	59	58	53	61	68	66	65	66	68	67	68	65	62	63	66	63.0
Doniphan	Maximum	71	66	76	78	82	81	80	85	84	87	87	84	84	78	72	75	77	76	80	82	84	78	80	84	84	89	87	81	83	85	86	80.8
	Minimum	47	54	57	57	51	61	58	62	62	63	60	67	51	52	48	55	50	54	45	50	58	64	61	64	63	61	63	65	58	57	56	57.2
Jackson	Maximum	74	69	77	83	84	89	79	88	84	89	89	85	82	76	75	75	78	72	76	82	83	84	78	88	85	86	88	85	85	88	83	81.9
	Minimum	45	54	59	59	51	61	51	61	66	66	63	66	52	55	48	57	55	57	44	44	62	59	63	65	64	64	65	59	56	57	60	57.7
Poplar Bluff	Maximum	71	68	74	74	80	78	82	87	85	87	87	85	83	79	78	72	78	76	81	83	86	82	80	85	83	87	88	84	86	86	87	81.4
	Minimum	49	55	57	57	52	61	59	60	63	67	62	67	56	53	52	57	52	55	51	53	62	65	63	65	66	63	66	64	58	59	61	59.0
Cairo, Ill.	Maximum	71	66	71	69	77	72	77	84	85	87	86	79	78	74	72	76	73	72	76	78	82	76	79	83	83	81	82	81	81	82	84	78.0
	Minimum	57	61	61	60	56	63	62	63	70	70	70	68	61	57	60	61	59	60	54	57	62	63	66	67	68	65	68	63	63	66	68	62.9
Ozark Plateau.																																	
Arcadia §§	Maximum	71	65	76	74	84	76	79	84	83	86	87	79	81	74	71	68	76	71	73	77	80	70	75	80	81	83	80	78	79	82	80	77.5
	Minimum	44	50	56	57	48	56	46	54	65	63	61	66	47	50	43	54	45	51	44	43	52	56	61	63	61	61	58	59	51	53	54	53.9
Birchtree	Maximum	70	64	76	76	82	78	76	81	82	84	83	82	79	74	74	65	75	72	76	77	81	77	79	77	80	84	86	80	82	79	81	77.8
	Minimum	50	53	55	53	50	58	52	54	59	64	63	63	54	49	49	53	44	53	49	51	53	64	63	63	60	59	63	60	58	56	52	55.7
Eldon	Maximum	74	67	80	76	82	80	68	84	82	87	85	80	80	75	70	70	75	72	75	78	81	73	75	78	..	..	84	80	82	86	70	^{b}77.6
	Minimum	52	47	50	55	50	56	54	..	..	..	65	56	46	50	46	50	45	54	58	..	..	..	..	60	..	..	60	59	55	70	54	^{i}54.2
Farmington	Maximum	75	70	78	75	80	80	84	87	85	88	90	80	77	73	72	65	76	76	78	83	85	74	79	86	84	87	82	80	85	84	77	79.8
	Minimum	47	50	54	57	54	60	52	58	65	64	63	65	55	51	48	55	49	56	48	43	56	58	57	62	62	62	60	52	54	54	57	55.7
Hollister	Maximum	70	70	80	80	86	85	70	80	81	82	81	85	80	82	70	68	70	80	80	80	85	80	80	80	80	82	80	88	80	82	76	79.1
	Minimum	52	50	50	52	48	55	56	60	64	65	61	60	55	48	45	48	40	42	45	50	55	50	56	60	58	60	60	58	56	55	55	53.8
Koshkonong	Maximum	71	67	77	80	..	82	..	83	82	84	83	84	79	76	70	71	76	73	79	81	85	78	77	79	83	88	89	83	85	84	84	^{b}79.8
	Minimum	52	54	56	56	..	54	..	59	65	66	65	62	55	51	53	56	48	58	52	54	58	63	61	65	62	63	64	63	57	60	61	^{b}58.4
Lebanon §§	Maximum	72	70	80	77	83	83	81	83	81	87	85	82	80	75	73	74	75	72	83	87	86	80	80	77	80	85	87	82	86	80	67	79.8
	Minimum	50	52	51	52	48	53	46	61	64	66	65	58	46	46	43	46	46	47	42	44	55	60	58	60	58	60	60	60	53	54	61	53.7
Mountain Grove §§	Maximum	68	64	76	73	81	78	76	79	79	82	81	78	81	73	72	62	78	69	73	78	80	73	76	75	80	83	87	81	79	78	77	76.5
	Minimum	48	52	51	53	52	57	56	57	62	64	63	62	51	47	45	49	45	51	45	51	54	58	58	60	58	61	62	60	59	60	59	55.2
Neosho	Maximum	73	68	77	76	84	83	80	79	82	85	83	77	79	75	75	72	77	76	80	83	87	83	77	75	79	86	85	82	84	82	80	79.5
	Minimum	54	54	53	49	49	61	42	58	61	64	63	54	48	43	43	54	45	55	43	54	56	60	57	60	56	56	63	59	55	55	57	54.4
Rolla	Maximum	74	68	81	78	83	78	81	84	84	88	87	80	79	74	73	73	71	69	73	77	86	85	85	78	80	83	83	86	85	85	72	79.5
	Minimum	51	54	54	54	51	60	53	60	68	68	66	61	52	50	48	52	46	55	45	49	55	61	64	64	62	61	62	60	56	57	59	56.7
Springfield	Maximum	66	63	73	73	80	78	74	79	78	83	80	76	76	71	67	67	72	69	74	78	80	75	73	72	75	81	82	77	79	75	63	74.5
	Minimum	54	54	55	54	55	61	58	60	67	68	66	58	56	52	54	54	50	54	50	56	61	60	60	62	60	62	65	63	60	61	56	58.3
Southwest Plain.																																	
Amoret	Maximum	72	72	78	74	78	72	78	80	82	82	80	79	78	75	70	73	78	74	79	76	84	75	74	76	75	80	78	80	82	82	70	77.0
	Minimum	52	54	53	52	53	48	49	58	63	65	56	50	48	46	48	48	47	50	45	52	55	58	57	60	59	57	59	60	56	58	53	53.8
Appleton City	Maximum	73	72	81	76	82	79	78	80	82	85	82	80	79	74	66	70	75	73	76	74	84	77	73	77	77	82	81	79	83	81	72	77.5
	Minimum	54	57	55	54	52	52	54	61	65	68	69	55	52	49	51	53	49	53	50	56	57	62	61	62	53	60	63	62	60	59	55	56.9
Clinton	Maximum	77	72	85	78	85	82	80	83	84	87	86	81	85	78	73	74	79	75	78	77	88	82	80	77	..	..	87	82	87	88	72	^{b}80.8
	Minimum	45	57	56	65	53	57	56	62	65	69	70	55	50	52	52	54	49	53	49	54	58	64	61	63	..	..	61	61	60	60	55	^{b}57.4
Harrisonville §§	Maximum	71	72	81	76	84	81	75	80	80	83	81	79	77	76	64	72	71	75	78	78	83	71	74	70	76	81	78	79	83	82	71	76.8
	Minimum	53	53	57	52	52	54	53	61	62	66	68	51	50	47	51	49	47	51	45	49	60	61	60	61	62	59	62	60	59	60	53	55.7
Lamar §§	Maximum	73	76	81	78	85	80	78	81	82	85	84	78	79	77	71	71	78	76	81	82	87	77	77	77	79	85	87	83	85	84	69	79.5
	Minimum	54	55	54	51	51	57	53	58	59	64	66	53	48	47	50	53	47	51	44	56	58	60	59	61	60	58	63	63	58	57	51	55.5
Lamonte	Maximum	75	70	83	76	84	79	77	81	84	86	84	79	80	74	69	72	78	73	75	82	84	76	79	79	78	81	80	79	84	85	70	78.6
	Minimum	52	56	52	52	50	55	49	61	64	67	69	52	48	50	47	52	46	53	45	50	57	52	61	62	62	62	61	60	57	60	54	55.4
Marshall	Maximum	73	70	80	76	83	79	77	79	82	84	85	79	81	75	75	74	78	72	75	80	84	75	75	78	77	81	80	80	83	83	70	78.2
	Minimum	52	56	52	54	57	..	47	54	65	65	65	53	47	48	45	49	44	49	42	48	56	62	60	64	63	62	63	59	57	58	54	^{a}55.0
Nevada	Maximum	71	71	78	74	81	77	78	79	80	83	80	75	75	75	68	69	74	72	76	76	83	76	73	75	74	80	80	79	81	80	68	76.2
	Minimum	55	55	55	53	52	57	50	59	64	65	67	60	47	47	48	52	49	53	48	54	58	60	60	62	60	59	62	64	57	59	54	56.3
Warrensburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warsaw	Maximum	73	71	82	75	83	80	81	82	83	86	85	76	80	73	72	73	76	71	74	79	86	82	80	78	77	82	82	80	85	83	68	78.6
	Minimum	55	56	54	54	48	56	47	61	66	67	68	54	46	50	46	54	45	54	42	49	55	64	61	64	69	61	59	62	55	56	56	55.9
Northwest Plateau.																																	
Chillicothe §§	Maximum	68	71	78	73	83	77	77	81	84	84	83	75	73	71	73	71	77	71	72	80	86	74	75	76	74	78	78	77	83	88	67	76.5
	Minimum	47	52	51	53	48	59	47	55	61	66	68	52	46	46	43	49	47	51	45	44	61	64	61	63	61	62	62	57	55	59	53	54.5
Grant City	Maximum	70	73	81	83	82	86	74	81	84	84	88	76	78	72	74	76	76	72	75	80	85	78	74	75	75	79	76	78	83	77	67	77.8
	Minimum	52	56	52	51	51	48	45	58	58	66	69	46	44	44	44	48	45	49	42	47	60	61	59	61	63	59	61	56	56	58	49	53.5
Kansas City	Maximum	69	68	79	72	83	78	75	81	81	82	78	74	74	71	66	67	77	72	74	78	82	72	72	73	70	78	74	76	82	80	67	75.0
	Minimum	54	58	56	58	59	63	57	60	66	69	64	55	57	51	53	51	53	54	49	59	62	62	62	63	63	62	63	62	62	57	54	58.6
Kidder §§	Maximum	66	70	82	72	83	74	77	80	84	83	84	77	76	71	73	77	77	72	75	80	84	70	76	80	73	80	74	80	84	78	68	76.8
	Minimum	51	52	52	52	52	53	43	58	61	65	68	48	47	47	46	48	47	50	42	45	53	55	61	62	61	60	62	57	55	60	51	53.7
Lexington	Maximum	70	71	69	81	76	84	81	75	80	82	83	83	78	78	73	72	73	78	74	75	78	83	77	75	79	74	80	78	77	80	85	77.5
	Minimum	52	56	54	53	50	58	50	60	66	68	68	54	52	49	48	49	48	53	46	53	59	63	62	63	64	62	64	60	57	57	54	56.5
Maryville	Maximum	65	69	84	71	84	77	76	79	81	82	80	75	74	69	72	72	76	70	75	79	83	73	73	69	75	79	74	77	81	78	70	75.5
	Minimum	50	56	51	48	49	57	43	57	64	69	66	46	44	43	43	47	44	47	43	51	60	61	59	60	61	61	61	57	55	54	47	53.4
Oregon	Maximum	65	70	74	70	83	76	77	78	81	81	79	64	64	60	64	65	68	62	63	77	81	75	69	70	73	77	77	76	83	74	67	72.4
	Minimum	50	56	57	52	51	56	46	56	62	67	66	49	45	42	44	43	45	39	52	50	57	59	58	59	60	59	59	56	55	56	47	53.3
St. Joseph	Maximum	66	70	83	71	85	76	78	80	82	83	79	74	72	70	69	71	76	72	73	79	84	71	74	70	73	78	77	79	82	68	70	75.3
	Minimum	53	58	56	55	55	58	48	58	66	70	62	53	54	49	49	50	51	52	47	54	62	62	62	63	64	62	64	60	58	55	51	56.8
Trenton	Maximum	67	72	77	70	82	75	74	80	82	84	86	75	76	70	73	72	78	68	70	77	82	79	76	77	76	79	78	76	82	82	68	76.2
	Minimum	51	53	52	52	52	60	49	60	64	66	68	51	49	50	48	50	48	48	46	49	52	63	62	62	62	60	62	58	59	60	52	55.4

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^{a}, ^{b}, ^{c}, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

551.05
UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVI. COLUMBIA, MO., JUNE, 1922. No. 6.

GENERAL SUMMARY.

June, 1922, in Missouri, averaged warmer and drier than normal. The month opened with temperatures generally below normal. The second week showed a marked reversal, the excess from about the 7th to the 17th averaging from 2° to 10° a day; the remainder of the month alternated as short periods of moderate to warm weather, with several hot days, except it was mainly hot along the southern border.

The temperature distribution and accumulation of the present year up to and including June differed markedly from the prevailing conditions for the half year of 1921. At the end of June last year the accumulation exceeded 1,000°, while this year for the same time it is less than 400°.

Moderate local showers occurred occasionally during the first three weeks, but during the last week they were more generous both as to amounts and distribution.

The weather was favorable for harvesting grain and hay and for cultivating corn; the last named crop was favorably affected, except more moisture was needed in the east-central counties. It was reported that the heat during the middle of the month prematurely ripened wheat and shriveled the berry somewhat; and there was some local damage by rust and chinch bugs.

There were no damaging floods or storms of any kind.

TEMPERATURE.

The monthly mean temperature for the State, as determined from the records of 70 stations, was 76.5°. The departure from the normal for 68 stations having 10 or more years' record was plus 3.1°. The warmth of this June differed but little from that of last year, but was nearly 4° warmer than the same month in 1920.

The temperature excess was uniformly distributed. The highest monthly mean was 84°, at Caruthersville, Pemiscot County, and the lowest was 73.3° at Edgerton, Platte County. The 1st, 3rd, and 4th, were quite pleasant days. The 13th, 14th, 23rd, and 24th were the hottest. Caruthersville had 100° or higher on 14 days, with 108° as maximum. Twenty stations had 100° or higher on either the 13th or 14th or 23rd and 24th, some few during both periods. Thermometer readings were 90° or higher on an average of 15 days, ranging from 9 days in the northwest section to 18 in the southeast, and about 16 days from southwest to northeast.

PRECIPITATION.

The average precipitation for the State, 84 stations reporting, was 1.66 inches. The departure from the normal for 78 stations having 10 or more years' record was minus 2.89 inches. In comparison with other Junes the average, 1.66 inches, is the least in 55 years, although 1.67 inches in 1870, and 1.78 inches in 1911, were practically the same.

The deficiency was marked in all parts of the State. There were no excessive local rains anywhere. There were 19 stations with monthly totals of less than one inch, and 6 or 7 with less than one-half inch. The precipitation was in the form of local showers, being perhaps somewhat more frequent and better distributed during the last week.

WIND.

The prevailing winds were from the south. The average wind movement, based upon the records of 8 stations equipped with anemometers, was 5,213 miles, 7.2 miles per hour, or about normal. There were no high winds; except locally in Schuyler, Nodaway, and Dent Counties.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well placed stations equipped with sunshine recorders reporting, was 345 or about 77 per cent of the possible and about 7 per cent more than normal. This June was about 9 per cent brighter than the same month last year.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---3rd.

Hail.---On the 13th, at Hannibal.

Halos, solar.---6th, 7th, 8th, 15th, 17th, 24th, 25th, and 29th.

Halos, lunar.---On the 3rd.

Thunderstorms.---Local 7th, 9th, 10th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 20th, 27th and 29th. More or less general on the 11th, 19th, 24th, 25th, 26th, 28th, and 30th.

OBSERVERS' REMARKS.

Gorin.---Some local damage by wind. Weather generally favorable.

Macon.---Wheat all cut; quality fairly good. Timely showers for corn.

St. Catherine.---A hot month with abundance of sunshine. Corn looks fine; other crops fair.

Warrenton.---Hot, dry weather prevailed most of the month. Vegetation beginning to suffer.

Bolivar.---Very dry month. Grass and gardens damaged, but corn standing the drouth well.

Farmington.---A fine growing month. Very dry up to the 18th; rain sufficient latter part month; moisture opportune.

Gano.---There was a violent electric and rainstorm south of this station on the 25th. Several head of cattle were killed and other damage done.

Lebanon.---Pastures badly hurt by drouth; and corn is beginning to curl.

Lockwood.---A very dry, hot month. Wheat and oats damaged by sun and heat. Corn is small but clean.

Rolla.---Frequent local showers between 25th and 30th. Corn and grass benefited.

Appleton City.---Month hot and dusty with hot winds. Hottest June since 1918. Wheat crop poor; oats almost a failure.

Lamonte.---Wheat and oat harvest finished. These crops were damaged by bugs, reducing the yields but quality is good. Fine crop of hay.

Warsaw.---Driest June in 24 years. Pastures, gardens nearly ruined; berries and tree fruits damaged.

Avalon.---Very dry month, but crops did well. Good honey season.

Maryville.---There was a high wind on the 13th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.96	82	64	307	69	4,040	5.6	26	w.	30
Hannibal	29.98	72	..	...	..	5,096	7.1	37	nw.	13
Kansas City	29.95	75	51	399	89	6,311	8.8	45	ne.	25
St. Joseph	29 94	78	48	379	84	4,616	6.4	44	nw.	28
St. Louis	29.96	71	54	310	70	7,177	10.0	37	s.	10
Springfield	29.99	78	53	307	70	5,441	7.6	36	sw.	19
Cairo, Ill	29.97	80	58	...	..	4,831	6.7	31	sw.	26
Keokuk, Iowa	29.99	68	48	366	81	4,195	5.8	34	nw.	13

COMPARATIVE DATA FOR JUNE.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	72.6	−0.5	103	37	6.20	+1.26	......	0	7	....	....	....
1889	70.7	−2.4	100	38	4.66	−0.28	......	0	6	....	....	....
1890	77.2	+4.1	105	50	2.59	−2.35	......	0	6	....	....	....
1891	73.3	+0.2	103	46	6.94	+2.00	......	0	13	....	....	....
1892	74.5	+1.4	100	38	3.18	−1.76	4.25	0	7	15	9	6
1893	72.6	−0.5	98	42	4.61	−0.31	3.60	0	9	12	12	6
1894	74.5	+1.4	105	30	3.92	−1.02	3.48	0	7	16	11	3
1895	73.2	+0.1	100	42	5.77	+0.83	3.85	0	10	12	11	7
1896	72.5	−0.6	101	45	8.32	+3.38	5.60	0	9	12	11	7
1897	73.6	+0.5	102	38	6.18	+1.24	6.40	0	12	9	14	7
1898	75.3	+2.2	100	42	5.88	+0.94	8.15	0	9	13	12	5
1899	74.3	+1.2	101	42	3.87	−1.07	4.48	0	9	15	10	5
1900	73.3	+0.2	103	44	4.79	−0.15	5 06	0	10	12	12	6
1901	77.9	+4 8	110	40	2.13	−2.81	2.99	0	6	18	10	2
1902	70.9	−2.2	100	37	6.57	+1.63	6.08	0	12	11	10	9
1903	67.3	−4.2	95	36	3.25	−1.69	4.90	0	9	15	9	6
1904	70.5	−2.6	93	45	6.42	+1.58	5.41	0	11	12	12	6
1905	75.2	+2.1	103	42	3.09	−1.85	4.80	0	7	15	10	5
1906	72.7	−0.4	101	40	4.95	+0.01	4.07	0	10	15	9	6
1907	71.2	−1.9	97	40	5.84	+0.90	3.90	0	11	14	10	6
1908	72.3	−0.8	98	43	6.30	+1.36	5.30	0	11	13	10	7
1909	73.9	+0.8	98	49	5.21	+0.27	4.12	0	11	11	13	6
1910	70.4	−2.7	99	38	3.92	−1.02	3.70	0	8	16	7	7
1911	78.9	+5.8	112	43	1.78	−3.16	2.07	0	6	18	8	4
1912	69.5	−3.6	100	42	4.78	−0.16	5.60	0	9	14	8	8
1913	75.4	+2 6	107	33	2.57	−2.22	3.05	0	6	18	8	4
1914	79.3	+6.2	106	43	2.37	−2.29	3.50	0	5	18	7	5
1915	70.8	−2.5	98	38	6.51	+1.87	4.86	0	12	11	10	9
1916	70.0	−3.2	100	42	6.99	+1.17	6.75	0	10	14	9	7
1917	71.0	−2 3	103	35	3.78	−0.59	4.19	0	8	19	7	4
1918	77.2	+3.9	110	48	3.15	−1.36	4.28	0	7	17	8	5
1919	75.0	+1.9	104	44	5.59	+1.11	4.21	0	11	14	10	6
1920	72.7	−0.5	104	41	2.35	−2.16	3.74	0	6	18	7	5
1921	76.6	+3.4	105	44	5.71	+1.15	4.14	0	12	12	10	8
1922	76.5	+3.1	108	43	1.66	−2.89	2.30	0	5	19	8	3
....	.....	....	.....	.....	......	....	......	....	....	....	....	....
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Climatological Data for June, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	77.3	+ 4.5	98	16†	50	1	33	1.61	−3.88	0.85	0	4	21	0	9	s.	O. K. Benecke
Clifton Hill	Randolph	731	22	76.7	+ 4.4	100	13†	49	1†	35	0.92	−4.64	0 27	0	6	19	10	1	......	Dr. A. J. Bradsher
Columbia	Boone	748	31	75.6	+ 2.5	97	24	50	3	31	2.01	−2.37	0.72	0	8	12	11	7	s.	U. S. Weather Bureau
Downing	Schuyler	878	11	75.4	......	96	14†	47	1	31	2.97	−1.36	1.40	0	5	26	3	1	s.	E. E. St. Clair
Fayette	Howard	661	38	75.0	+ 1.8	95	23†	48	3†	30	1.61	−3.08	0.42	0	6	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	29	76.4	+ 3.1	98	24	49	3	35	0.44	−4.27	0.35	0	3	16	9	5	sw.	Westminster College
Gorin	Scotland	700	34	....	......	..	..	..	..	..	3.24	−0.52	2.30	0	5	14	12	4	ne.	J. W. Pulliam
Hannibal	Marion	534	37	76.0	+ 2.7	96	23	53	4	30	0.96	−2.56	0 58	0	7	13	14	3	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	76.6	+ 2.6	96	23†	52	3	31	2.19	−1.83	0 82	0	6	24	3	3	s.	Miss Emma Swift
Kirksville	Adair	969	39	74.1	+ 2.2	95	14†	46	1	30	0.96	−3.43	0.51	0	3	25	2	3	s.	Prof. J. S. Stokes
Louisiana	Pike	469	40	75.6	+ 3.9	100	24†	45	4†	48	1.16	−2.89	0.55	0	5	19	10	1	n.	J. T. Farrell
Macon	Macon	875	28	76.0	+ 3.6	99	23	47	1	34	1.59	−3.16	0.38	0	8	19	8	3	sw.	W. C. Brown
Mexico	Audrain	800	43	77.1	+ 3.5	103	24	48	3†	36	0.47	−4.47	0.25	0	4	22	4	4	ne.	Mrs. Abbie Snoddy
Palmyra	Marion	652	22	75.2	+ 0.8	98	24	47	3	34	2.77	−1.92	1.60	0	4	22[a]	5[a]	2[a]	sw.	W. B. Markell
St. Catherine	Linn	800	12	74.2	+ 1.7	96	13	45	1	31	1.73	......	0.57	0	5	18	11	1	s.	L. D. Baker
St. Charles	St. Charles	456	43	78.0	+ 4.0	100	24	51	2	32	1.39	−2.77	0.55	0	7	16	10	4	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	78.2	+ 3.4	96	24	57	3	27	0.80	−3.67	0.23	0	7	8	17	5	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	77.7	+ 2.8	97	24	55	3	28	1.29	−2.47	0.47	0	7	13	11	6	s.	St. Louis University
Shelbina	Shelby	779	28	....	......	..	..	..	..	..	1.40	−3.69	0.50	0	4	..	..	..	......	S. G. Parsons
Steffenville	Lewis	650	28	76.8	+ 4.0	103	14	48	3	38	1.74	−2.43	1.20	0	5	17	12	1	s.	Frank Hall
Unionville	Putnam	1,062	28	73.8	+ 1.8	96	14†	43	1	34	2.85	−1.57	0.95	0	6	16	5	9	sw.	Geo. W. Davis
Warrenton	Warren	816	31	77.5	+ 4.1	100	14†	51	3	37	0.18	−4.17	0.08	0	5	15	11	4	ne.	Prof. A. W. Eberling
Keokuk, Iowa	Lee, Ia.	574	49	75.0	+ 2.5	96	23	51	3	29	1.08	−3.27	0.68	0	6	14	12	4	n.	U. S. Weather Bureau
Section means and	extremes	.....	..	76.1	+ 3.0	103	14	43	1	48	1.54	−2.93	2.30	0	5	17	9	4	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	84.0	+ 6.2	108	14	59	4	38	1.81	−2.17	0.65	0	5	26	4	0	e.	H. E. Averill
Doniphan	Ripley	344	17	78.0	+ 3.2	100	14	52	5	39	1.67	−2.71	0.55	0	8	23	2	5	sw.	W.W. Martin
Jackson	Cape Girardeau	428	31	77.6	+ 3.5	99	15†	50	4	42	3.53	−0.76	1.05	0	11	10	6	14	s.	John G. Putz
Marble Hill	Bollinger	470	27	77.2	+ 3.3	105	14	48	4	41	1.62	−2.55	0.84	0	5	14	14	2	e.	R.A. DeWitt
Parma	New Madrid	281	..	....	......	..	..	..	..	..	2.68	......	0.82	0	7	..	..	..	......	J.E. Pearce
Patton (near)	Bollinger	500	11	....	......	..	..	..	..	..	2.28	−1.39	0.60	0	5	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	329	17	79.0	+ 3.6	99	17	55	4†	40	2.04	−2.98	0.68	0	8	13	15	2	s.	Rev. John H. Gallaher.
Vanduser	Scott	304	..	....	......	..	..	..	..	..	1.06	......	0.30	0	7	22	0	8	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	78.3	+ 3.1	96	15	60	1	24	1.44	−2.87	0.44	0	13	6	12	12	n.	U. S. Weather Bureau
Section means and	extremes	....	..	79.0	+ 3.8	108	14	48	4	42	2.01	−2.20	1.05	0	8	16	8	6	s.	
Ozark Plateau.																				
Arcadia	Iron	926	43	74.6	+ 2.6	97	14†	47	4	39	1.33	−3.25	0.52	0	5	16	9	5	w.	Arcadia College
Birchtree	Shannon	1,000	28	75.5[a]	+ 2.8	97	14†	51	4	33	1.68	−2.85	0.83	0	3	26	4	0	n.	V. H. Kirkendall
Bolivar	Polk	1,071	32	76.2	+ 3.4	100	24	51	3	32	0.28	−4.74	0.28	0	1	26	1	3	s.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	73.8	+ 0.8	98	24	44	3	39	2.37	−2.90	2.15	0	3	24	4	2	sw.	H. E. Dean
Eldon	Miller	934	22	76.6	+ 3.4	101	24	50	1†	33	1.28	−3.03	0.46	0	5	11	15	4	s.	E. H. Shepherd
Farmington	St. Francois	918	24	75.7	+ 3.1	98	15†	50	4	38	3.31	−1.32	1.27	0	7	16	13	1	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	74.6	+ 1.8	97	24	46	4	35	3.57	−0.73	1.14	0	5	20	9	1	sw.	A. C. Leach
Goodland	Iron	1,000	28	74.0	+ 1.9	98	24	45	4	43	2.48	−1.62	0.85	0	5	20	10	0	s	F. M Adams
Greenville	Wayne	381	..	....	......	..	..	48	4	..	0.83	......	0.51	0	6	18	10	2	s.	J. J. Amen.
Hollister	Taney	735	18	77.2	+ 1.5	102	23	49	3	42	1.00	−3.01	0.50	0	2	22	6	2	s.	W. P. Chapmann
Houston	Texas	1,280	29	75.4	+ 3.1	100	24	44	4	40	0.67	−3.99	0.40	0	3	16	10	4	se.	Walter T. Beard
Koshkonong	Oregon	958	20	77.6[d]	+ 3.3	98	25	55	4	34	0.99	−3.49	0.58	0	4	13[a]	10[a]	6[a]	w.	R. M. Hitt
Lebanon	Laclede	1,265	34	76.0	+ 2.9	100	24	46	3	45	0.90	−4.03	0.35	0	6	26	3	1	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	76.4	+ 2.4	98	24	51	1†	29	0.83	−3.97	0.48	0	3	24	4	2	sw.	C. S. Crow
Mountain Grove	Wright	1,463	25	75.7	+ 4.1	99	24	49	3	35	1.57	−2.99	0.83	0	4	17	6	7	s.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	74.6	+ 0.7	97	24†	45	3	38	3.52	−1.91	2.30	0	4	15[i]	5[i]	1[i]	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	77.7	+ 4.9	100	14†	49	3	33	0.53	−3.60	0.24	0	4	21	8	1	n.	Prof. Elmo G. Harris
Seligman	Barry	1,542	15	75.0	+ 2.5	94	24	54	3	30	1.17	−2.36	0.57	0	5	20	9	1	sw.	Floyd E. Fawver
Seymour	Webster	1,642	16	76.8	+ 4.8	96	30	54	1	35	0.94	−3.69	0.44	0	3	20	8	2	ne.	Ira H. Hailey
Springfield	Greene	1,350	42	75.7	+ 3.4	96	24	54	1	25	0.66	−4.53	0.55	0	3	17	11	2	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	75.7	+ 2.8	102	23	44	3†	45	1.50	−3.05	2.30	0	4	20	8	2	s.	
Southwest Plain.																				
Amoret	Bates	831	15	75.2	+ 1.7	98	24	48	1	35	1.19	−2.67	0.62	0	4	24	6	0	sw.	Darby Fruit Farm
Appleton City	St. Clair	853	29	77.1	+ 2.3	100	24	51	1	30	1.71	−3.28	0.96	0	3	17	12	1	sw.	W. G. Bigelow
Clinton	Henry	765	34	78.8	+ 5.4	102	24	52	1	35	0.45	−4.28	0.30	0	2	22	7	1	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	46	75.8	+ 2.4	97	24	51	3	29	2.69	−1.77	0.82	0	7	16	5	9	s.	John H. Patterson
Lamar	Barton	980	40	75.8	+ 1.4	99	24	46	3	35	2.14	−2.82	1.10	0	5	24	2	4	s.	Joe W. Springer
Lamonte	Pettis	867	35	77.0	+ 2.7	100	24	49	3	35	0.87	−3.62	0.45	0	5	24	5	1	se.	J. E. Wheeler
Marshall	Saline	779	32	76.6[a]	+ 2.7	98	13†	50	2†	32	2.05	−2.27	0.57	0	7	18[b]	10[b]	0[b]	sw.	Dr. W. H. Black
Nevada	Vernon	862	30	75.6	+ 2.0	97	24	49	1†	33	1.25	−3 86	0.65	0	3	21	6	3	sw.	George A. Kaupp
Warsaw	Benton	687	26	77.4	+ 3.7	102	24	47	3	38	0.48	−4.69	0.25	0	4	15	15	0	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	76.6	+ 2.7	102	24	46	3	38	1.43	−3.25	1.10	0	4	20	8	2	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	24	76.4	+ 3.3	99	13	50	1	29	1.85	−2.71	1.15	0	3	25[a]	3[a]	1[a]	sw.	F. G. Ashbaugh
Bethany	Harrison	916	30	74.0	+ 2.1	98	13	43	1	37	3.25	−0.99	1.50	0	6	19	7	4	se.	M. H. Moulton
Chillicothe	Livingston	779	13	74.6	+ 0.8	96	13†	51	2†	31	1.69	−4.22	0.65	0	5	25	2	3	ne.	Wm. J. Olenhouse
Conception	Nodaway	980	37	76.2	+ 5.1	100	23	48	1	31	2.15	−2.30	0.70	0	8	17	10	3	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	9	73.3[h]	......	94	24	47	4	35	1.43	−4.15	0.97	0	6	21[g]	1[g]	1[g]	s.	Fred L. Stiff
Grant City	Worth	1,134	30	74.8	+ 3.9	95	13†	49	1	31	2.60	−1.78	1.79	0	6	23	6	1	s.	B. F. Locke
Kansas City	Jackson	963	32	77.2	+ 4.2	96	23	51	1	26	1.13	−3.53	0.53	0	9	19	9	2	sw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	34	74.7	+ 2.6	97	13	46	1	35	2.11	−2.28	0.72	0	5	22	4	4	sw	Linn Terry
Lexington	Lafayette	688	39	76.4	+ 3.6	97	14†	52	3	31	1.58	−3.19	0.82	0	6	16	12	2	s.	Edwin G. Loomis
Liberty	Clay	859	31	76.7	+ 3.0	99	23	48	1	34	1.66	−3.25	0.63	0	4	16	14	0	sw.	James H. Harris
Maryville	Nodaway	1,109	27	74.4	+ 5.5	96	23	47	1	31	2.06	−2.48	1.03	0	5	23[a]	1[a]	5[a]	s.	J. R. Brink
Oregon	Holt	1,048	66	73.6	+ 1.3	96	13	47	1	29	2.33	−2.41	1.17	0	4	23	7	0	s.	Tom Curry
St. Joseph	Buchanan	967	49	76.2	+ 2.3	97	13	51	1	30	1.75	−2.93	1.01	0	7	22	7	1	s.	U. S. Weather Bureau
Tarkio	Atchison	916	28	74.0	+ 1.2	97	15†	47	3	33	2.04	−2.92	0.62	0	6	19	10	1	se.	Albert Volker
Trenton	Grundy	822	26	75.0	+ 2.6	94	14†	48	1	29	2.18	−1.81	0.76	0	5	25[a]	4[a]	0[a]	ne.	W. H. Estes
Section means and	extremes	.....	..	75.2	+ 3.0	100	23	43	1	37	1.99	−2.73	1.79	0	6	21	7	2	s.	
State means and	extremes	.....	..	75.6	+ 3.1	108	14	43	1	48	1.66	−2.89	2.30	0	5	19	8	3	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean. Anderson: of Gano. Salem, R. F. D. No. 5. ‡ Indicates plus.

Daily Precipitation for June, 1922.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‡‖	Missouri								.03				2.00								.09						.12			.33	.03		2.60
Brunswick‖	Grand												.85							.36							.30			.10			1.61
Clifton Hill	Chariton		.06					.10												.27							.18		.16		.15		0.92
Columbia***	Missouri		T.					.05		T.		.08	.04							.02						.67	.04		.40	T.	.71		2.01
Downing	Mississippi		.02											.20						1.40							.15				1.20		2.97
Fayette‡‖	Missouri		T.					.27	T.			.27	.08							T.						.34	T.		.42		.23		1.61
Fulton	....do								.06				T.							T.						.03			.35				0.44
Gorin			.06											.15						2.30							.09				.64		3.24
Hannibal***	Mississippi		.10						T.					.19						.01						.02	.02	T.	.58		.04		0.96
Hermann‖	Missouri	.38								.10											.05						.04			.30			0.87
Jefferson City‡‖	....do								.02	.82			.25								.65						.05			.40			2.19
Kirksville	Mississippi													.51						.42						.03							0.96
Louisiana	....do		T.											.26		T.				.01	.24						.10		.55		T.		1.16
Macon ‖	Chariton								.02					.16						.30	.32						.25		.38	.12	.04		1 59
Mexico ‖	Mississippi																			T.	.10					.02	.10			.25			0.47
Pacific‖‖	Meramec			.03					.06	.21	.23			.12							.44					.01				.28	.03		1.41
Palmyra‡‖	Mississippi								.18				.21								1.60									.78			2.77
St. Catherine	Grand													.11						.55							.14		.36		.57		1.73
St. Charles	Missouri							T.	.10					.06						.23	.18				.21				.55		.06		1.39
St. Louis (1)***	Mississippi		T.					.06	.03	T.				.23	T.					T.	.18						.10		.01	T.	.19		0.80
St. Louis (2)	....do		T.					.05	.01					.19	T.					T.	.47						.02		.32		.23		1.29
Shelbina	....do															.30											.10		.50		.50		1.40
Steffenville	....do		.05											.10						1.20									.36		.03		1.74
Union‖‖	Meramec								.09	.50	.06		.01								.45									.04	.02		1.17
Unionville	Chariton						.10							.95						.50	.20					.40					.70		2.85
Valley Park‖‖	Meramec			T.					.12	T	.05		T	.23							T.					T.	T.	T.		.12			0.52
Warrenton ‖	Mississippi	.08							T.												.04					T.	.01		.03	.02			0.18
Keokuk, Ia.***	....do		.13											.68	.10					.07						04					.06		1.08
Southeast Lowlands																																	
Cape Girardeau‡‖	Mississippi								.20	.28			.83						.10		.62	.15					.38			.45			3.01
Caruthersville	....do						T.	.45	T.	T.	T.						T.	T.	.65		.38						.30	.03	T.				1.81
Doniphan	Black	.05						.05	.17		T.								.10		.42						.27	.06	.55				1.67
Jackson	Mississippi		.10								.08		1.05	.09				.02	.25	.06	.49						.55	.01	.83				3.53
Marble Hill	....do																	.12	.30	.16							.84		.20				1.62
New Madrid‖	....do							.02	.03	.01		.01							.30		.47	.05						.41		.04			1.34
Parma	....do							.15									.21		.30		.82						.64	.20		.36			2.68
Patton (near)	....do																	.60		.30	.40						.50		.48				2.28
Poplar Bluff	Black							.39	.10		.11								.04	T.	.26						.41	.68	.05				2.04
Vanduser	Mississippi								.15	.30								.05		.11	.15						.21		.09				1.06
Cairo, Ill.***	....do							.19	.06	.04	.06	T.				.13	.03	T.	.44	.01	.36						.07	.02	.01	.02			1.44
Ozark Plateau.																																	
Arcadia ‖	St. Francis	.01						T.		T.				.26							.42						.52		T	.12			1.33
Birchtree	Gasconade																			.60							.25		.83				1.68
Bolivar	Black	T.							T.																	.28							0.28
Dean	Osage							T.										.03		.19							2.15						2.37
Eldon	Neosho							.25	.05			.25	T.							.27						T.			.46				1.28
Farmington	Osage							.02					.03							.28	.32					1.27	T.		.47		.92		3.31
Gano	St. Francis							.45												T.	.10					.75	T.		1.13		1.14		3.57
Goodland	Meramec												.85								.34					.61			.20		.48		2.48
Greenville ‖	St. Francis						.13			.01											.03	T.					.51	.10		.05			0.83
Hollister	Black																								.50	.50							1.00
Houston	White							T.		T.	T.	T.								.15						.12	T.		.40		T.		0.67
Jerome ‖	Gasconade								.23					.33													.07				T.		0.63
Koshkonong	Black								T.		T.								13	.58							T.	.15	.13				0.99
Lebanon ‖	Osage	.02	T.						.35	.04											.08						.08			.33			0.90
Lockwood	....do																	T.		.23							.48				.12		0.83
Mountain Grove‡‖	White	.12							.08	T.											.54									.83			1.57
Neosho	Neosho							T.	T.									.16			.10					T.	2.30				.96		3.52
Rolla	Meramec							.08	.03				T							.18						T.					.24		0.53
Seligman	Barry							05	.18										.09							.28	.57						1.17
Seymour	White							.14																		.44	.36						0.94
Springfield***	....do							T.												.11						.31	.24				T.		0.66
Steelville‖	Meramec								.20				.10	2.26							.04						.05						2.65
Tuscumbia ‖	Osage								.06	.28			.10								.10						.10			.30			0.94
Southwest Plain.																																	
Amoret	Osage																										.25		.62	.05	.27		1.19
Appleton City	....do	T.						T.										T									.71		.96	T.	.04		1.71
Clinton	....do																									.15			.30				0.45
Harrisonville‡‖	....do		T.						.18				.76					.30									.32		.82	.16	.15		2.69
Lamar ‖	Neosho																	.41	.49								1.10			.09	.05		2.14
Lamonte	Missouri												.03														.01		.45	.02	.36		0.87
Marshall	....do							.50				.05							.35						.57	.12		.45		.01			2.05
Nevada	Osage																	.22									.65				.38		1.25
Osceola‡‖	....do																										.13						0.13
Warsaw	Osage								.03																		.10		.25		.10		0.48
Waverly ‖	Missouri												.09							T.							.39		.14	.21	T.		0.83
Northwest Plateau.																																	
Avalon	Grand																									1.15			.35		.35		1.85
Bethany	....do	T.	T.			T.														1.50					.15	.08	.40		.27		.85		3.25
Chillicothe ‡‖	....do																			.65						T.	.43		.45	.02	.14		1.69
Conception	Missouri	.04				.09								.09						.24					.05	.40	.54		.70	T.	T.		2.15
Edgerton	Grand	.03						.02					.37	.02															.97	.02			1.43
Grant City	....do	.05				.04														1.79							.12		.35		.25		2.60
Kansas City***	Missouri	.01						.03				.12	.01													.06	.35		.53	.01	.01		1.13
Kidder ‖	Grand													.01						.27							.72		.63		.48		2.11
Lexington	Missouri	.24											.12														.82	.01	.21	.18			1.58
Liberty	....do	T.											.63														.56		.34		.13		1.66
Maryville	....do													.19												.10	1.03		.71		.03		2.06
Oregon	....do					.22																			T.	.90		1.17			.04		2.33
St. Joseph***	....do	.05										T.	.02	T.												.87	.14		.50	.13	.04		1.75
Tarkio	....do													.24											.25	.04	.50		.62		.39		2.04
Trenton	Grand	T.	.02					T.												.62						.55			.23		.76		2.18

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for June, 1922.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	70	75	80	84	87	89	88	91	90	91	94	95	97	96	97	98	87	91	87	87	94	97	98	93	91	90	92	87	91	93	..	90.0
	Minimum	50	54	52	53	58	59	63	62	68	70	72	71	74	71	73	75	69	61	66	63	61	66	62	69	66	65	66	65	66	69	..	64.6
Columbia	Maximum	70	72	75	79	83	86	84	84	87	86	90	90	93	94	94	95	83	86	85	83	90	92	96	97	86	84	89	80	87	93	..	86.4
	Minimum	54	55	50	51	55	59	65	64	68	68	71	69	75	69	73	74	69	62	67	66	59	67	68	71	68	65	66	65	65	70	..	64.9
Fayette§§	Maximum	70	72	77	74	83	85	84	84	86	87	90	92	92	93	92	93	82	88	82	84	92	92	95	95	89	85	91	84	88	92	..	86.4
	Minimum	53	57	48	48	53	55	60	62	67	69	71	69	72	70	70	73	70	62	65	64	59	66	66	67	62	65	65	67	64	70	..	63.6
Hannibal	Maximum	72	67	71	78	84	86	86	89	89	86	89	91	93	94	95	96	85	85	80	83	89	88	96	94	90	86	90	82	89	92	..	86.5
	Minimum	58	55	53	53	54	58	63	68	69	71	72	67	67	71	76	76	72	65	68	65	61	63	69	73	65	60	68	67	67	69	..	65.4
Jefferson City §§	Maximum	70	72	78	81	86	87	83	85	86	85	90	92	95	95	94	93	89	86	92	82	89	92	96	96	86	87	90	92	90	96	..	87.8
	Minimum	54	56	52	53	55	59	63	64	66	68	70	70	71	71	72	74	73	65	66	65	63	67	66	72	70	66	65	68	64	70	..	65.3
Kirksville	Maximum	68	71	76	80	81	88	85	87	85	86	86	91	94	95	94	91	87	82	79	87	91	89	95	91	88	88	90	87	88	88	..	86.3
	Minimum	46	54	48	53	56	61	61	63	63	68	71	64	65	66	66	75	60	63	65	60	63	61	65	67	59	58	64	64	61	68	..	61.9
Louisiana	Maximum	72	75	74	76	80	90	88	91	91	92	93	92	97	98	96	99	98	90	82	83	88	92	96	100	100	94	92	92	87	88	..	89.5
	Minimum	55	58	48	45	45	52	60	65	70	70	75	68	65	78	73	75	70	62	62	65	55	52	62	68	52	52	65	55	62	65	..	62.2
Macon §§	Maximum	73	73	77	83	85	90	89	91	90	88	92	96	96	98	97	96	88	89	81	85	94	95	99	94	94	91	92	86	90	91	..	89.4
	Minimum	47	55	50	51	55	60	60	62	67	68	71	66	66	66	70	74	65	61	65	60	60	62	65	70	60	60	64	64	63	67	..	62.5
Mexico §§	Maximum	72	72	76	81	87	90	90	91	91	89	96	96	99	100	98	98	90	91	83	83	93	96	100	103	91	87	95	95	94	94	..	90.6
	Minimum	53	55	48	48	51	57	60	64	67	68	72	69	73	68	71	73	70	61	63	65	59	63	66	71	66	60	63	66	64	74	..	63.6
St. Catherine	Maximum	67	72	75	80	80	88	85	88	83	83	84	90	96	95	93	93	85	86	80	82	89	90	95	87	87	85	93	83	86	88	..	85.6
	Minimum	45	63	50	50	51	60	61	61	68	68	70	66	65	68	72	75	63	60	64	60	62	64	67	70	60	62	64	63	63	68	..	62.8
St. Louis (1)	Maximum	76	74	75	78	85	85	86	82	87	85	89	91	95	95	95	95	91	90	85	84	90	88	92	96	88	81	92	89	92	88	..	87 3
	Minimum	57	58	57	60	64	69	69	68	70	71	75	75	71	78	75	79	79	72	68	66	69	65	68	69	71	65	71	71	70	70	..	69.0
Unionville	Maximum	70	72	76	82	81	86	86	90	86	85	88	91	92	96	94	91	81	87	84	86	92	92	96	91	92	85	88	88	90	88	..	86.9
	Minimum	43	52	46	50	55	56	60	62	66	68	66	60	65	62	70	74	60	56	64	56	62	60	65	65	67	60	64	62	60	66	..	60.7
Warrenton §§	Maximum	76	75	77	83	87	90	85	88	90	89	92	94	97	100	99	95	90	91	89	91	90	90	99	100	90	86	97	84	91	94	..	90.0
	Minimum	54	54	51	54	58	60	64	66	67	68	72	71	73	72	72	75	71	64	65	65	63	63	62	68	67	62	65	68	66	70	..	65.0
Southeast Lowlands.																																	
Caruthersville	Maximum	90	93	92	93	93	94	93	91	90	90	98	101	101	108	104	103	106	97	100	95	100	98	100	102	103	100	98	97	103	103	..	97.9
	Minimum	65	63	65	59	65	69	68	71	71	70	72	75	76	74	77	75	75	70	72	70	70	68	70	69	65	70	73	73	70	73	..	70.1
Doniphan	Maximum	81	85	83	82	86	87	85	81	89	89	94	94	97	100	99	98	98	97	95	93	91	94	94	96	97	88	92	91	93	98	..	91.6
	Minimum	62	59	59	53	52	54	64	68	67	68	71	69	72	68	67	71	70	69	63	65	64	62	68	57	60	66	68	67	65	68	..	64.5
Jackson	Maximum	79	85	79	86	86	89	89	83	90	87	94	92	95	98	99	99	98	90	92	85	89	89	92	96	94	89	91	92	90	95	..	90.4
	Minimum	59	59	58	50	55	54	65	69	69	69	74	63	77	71	73	71	72	71	67	64	65	65	60	54	63	62	64	69	64	66	..	64.7
Poplar Bluff	Maximum	83	85	83	86	87	91	84	81	88	86	95	96	97	98	98	97	99	97	96	90	93	96	96	98	98	89	88	88	95	96	..	91.8
	Minimum	63	60	60	55	55	59	66	69	67	68	73	72	75	71	71	73	72	70	68	66	66	65	64	58	64	67	68	69	66	70	..	66.3
Cairo, Ill.	Maximum	75	82	77	80	82	87	86	82	88	83	91	88	95	96	96	95	95	86	88	81	85	85	87	90	92	84	85	86	88	94	..	87.0
	Minimum	60	61	62	62	62	65	68	70	71	70	75	74	76	75	74	76	76	72	70	68	70	71	68	66	69	71	71	72	69	73	..	69.6
Ozark Plateau.																																	
Arcadia §§	Maximum	77	78	72	81	83	82	83	80	86	85	92	86	94	97	96	97	92	92	89	83	87	89	91	96	88	82	90	85	91	90	..	87.1
	Minimum	58	53	52	47	49	50	57	64	67	68	72	72	71	72	65	71	71	66	60	62	59	60	56	57	63	65	65	65	60	64	..	62.0
Birchtree	Maximum	75	78	76	81	83	85	80	79	88	83	93	94	96	97	95	97	95	92	83	90	94	..	93	97	95	80	92	82	90	93	..	[a]88.1
	Minimum	57	55	52	51	53	56	63	65	63	65	64	66	72	69	67	70	67	65	62	63	62	..	64	64	67	63	64	63	64	67	..	[a]62.9
Eldon	Maximum	69	72	80	80	85	79	88	87	92	87	91	94	96	97	97	95	90	90	95	85	90	94	100	101	87	88	94	85	89	97	..	89.1
	Minimum	50	58	50	50	54	58	62	63	66	65	72	68	72	71	68	75	72	65	62	63	60	63	67	70	68	65	65	65	62	70	..	64.0
Farmington	Maximum	75	77	75	81	89	87	91	88	90	87	89	87	90	96	98	98	90	88	93	82	88	86	91	96	85	83	81	79	88	91	..	87.3
	Minimum	57	58	52	50	51	53	63	64	67	67	67	72	73	74	72	74	73	68	64	63	63	64	59	61	67	65	65	67	63	67	..	64 1
Hollister	Maximum	70	72	82	86	90	82	89	84	90	90	91	100	98	100	100	100	92	98	100	92	95	100	102	101	90	85	95	95	100	102	..	92.4
	Minimum	58	55	49	50	60	54	64	65	64	65	67	66	68	65	62	68	65	65	60	60	58	58	60	60	65	66	65	64	65	70	..	62.0
Koshkonong	Maximum	75	80	80	84	87	89	87	80	88	85	92	97	94	98	97	98	93	92	90	87	92	94	96	96	98	80	..	..	..	..	..	[d]89.6
	Minimum	60	58	56	55	59	63	64	68	65	67	70	71	75	71	70	73	73	68	67	65	65	60	62	65	66	65	66	67	66	72	..	65.7
Lebanon §§	Maximum	70	74	80	85	85	86	83	86	87	86	93	96	95	98	95	96	92	91	94	86	94	97	98	100	94	87	95	86	93	99	..	90.0
	Minimum	54	54	46	48	55	56	60	64	64	65	67	70	71	69	68	71	71	68	63	61	52	52	61	68	68	63	64	66	60	63	..	62.1
Mountain Grove §§	Maximum	70	75	78	82	84	81	84	83	86	82	90	95	94	95	94	95	91	90	93	86	88	95	93	99	95	85	93	91	92	95	..	88.5
	Minimum	55	55	49	50	56	59	61	63	65	65	66	70	70	68	67	70	70	65	58	60	60	62	64	67	70	63	64	65	63	68	..	62.9
Neosho	Maximum	63	74	78	82	83	85	86	86	86	86	90	92	92	93	93	92	92	90	92	90	90	93	94	97	97	88	90	89	93	93	..	88.3
	Minimum	52	58	45	50	50	53	63	63	63	65	70	70	65	65	60	68	67	60	62	61	55	56	56	60	66	63	63	66	64	66	..	60.8
Rolla	Maximum	74	74	77	83	89	87	82	83	86	87	91	96	94	100	97	100	93	97	96	85	94	96	100	98	98	88	95	90	90	95	..	90.5
	Minimum	57	56	49	53	56	60	63	67	65	67	70	70	73	70	70	74	73	66	63	63	64	66	67	69	67	64	65	66	65	70	..	64.9
Springfield	Maximum	63	70	75	80	81	80	82	82	84	83	87	90	91	91	93	91	86	87	89	82	87	92	93	96	91	81	89	85	90	92	..	85.4
	Minimum	54	57	55	58	60	61	65	66	67	66	69	72	72	71	69	73	70	66	65	63	64	68	68	71	68	66	68	69	68	71	..	66.0
Southwest Plain.																																	
Amoret	Maximum	67	73	80	82	85	84	84	86	87	87	92	94	93	97	93	97	88	93	96	87	92	97	96	98	92	86	90	87	85	92	..	88.7
	Minimum	48	50	50	52	54	57	55	62	64	68	71	71	68	63	68	68	65	60	63	60	59	62	65	68	67	60	63	63	62	68	..	61.8
Appleton City	Maximum	66	74	79	84	85	85	84	86	87	86	92	95	95	95	94	95	83	92	96	87	92	96	96	100	90	84	92	84	88	94	..	88.5
	Minimum	51	56	52	56	57	63	68	65	67	68	72	72	71	70	70	74	71	65	66	64	71	66	67	70	71	64	64	65	65	71	..	65.7
Clinton	Maximum	69	75	81	86	89	89	88	89	89	91	93	97	98	99	97	98	90	93	97	90	95	99	98	102	92	89	95	88	90	97	..	91.4
	Minimum	52	57	53	55	57	61	67	67	68	69	73	72	73	75	71	74	72	64	67	62	65	64	70	72	70	64	67	65	65	72	..	66.1
Harrisonville §§	Maximum	66	75	80	84	84	84	81	85	85	86	91	93	93	93	92	93	82	90	91	81	90	95	94	97	90	84	86	85	84	92	..	86.9
	Minimum	59	52	51	55	59	59	64	63	65	69	70	70	73	69	79	72	65	61	65	62	63	66	69	69	69	62	64	62	62	69	..	64.6
Lamar §§	Maximum	63	75	81	85	86	85	87	88	88	87	92	96	96	95	95	96	87	89	94	87	92	96	96	99	95	83	91	89	91	95	..	89.3
	Minimum	49	54	46	52	55	56	55	56	59	61	64	71	70	67	67	69	70	63	70	63	59	61	64	65	68	65	65	67	67	68	..	62.2
Lamonte	Maximum	68	75	80	85	88	88	88	90	89	88	93	96	96	96	96	98	85	91	94	87	89	97	99	100	92	88	93	86	89	96	..	90.0
	Minimum	51	57	49	52	57	58	67	65	67	68	72	70	71	68	70	74	68	61	63	62	60	62	70	69	65	64	63	63	64	69	..	64.0
Marshall	Maximum	..	75	79	82	82	83	87	84	87	85	92	94	98	95	93	97	94	88	88	89	94	97	98	87	88	95	90	89	90	91	..	[a]89.3
	Minimum	..	50	50	53	56	63	62	61	69	68	70	70	72	69	66	71	59	60	65	66	66	65	66	62	64	64	65	65	67	65	..	[a]63.8
Nevada	Maximum	65	72	78	81	83	84	84	85	85	86	90	94	94	93	93	93	85	89	93	85	89	93	94	97	91	81	88	92	92	95	..	87.5
	Minimum	49	54	49	55	55	59	57	65	65	67	73	72	72	71	69	72	67	62	63	61	60	63	69	72	68	64	64	64	65	62	..	63.6
Warrensburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warsaw	Maximum	65	73	78	82	86	87	86	88	90	89	93	97	97	98	98	97	95	96	95	86	94	98	100	102	92	87	95	96	92	98	..	91.0
	Minimum	49	58	47	49	53	56	63	63	67	68	74	70	87	68	67	73	70	62	62	62	58	60	65	68	66	66	65	65	61	70	..	63.7
Northwest Plateau.																																	
Chillicothe §§	Maximum	66	72	76	81	84	88	85	89	86	86	90	93	96	95	96	92	84	88	83	81	90	93	96	85	90	86	88	85	87	89	..	86.7
	Minimum	48	51	54	51	58	57	60	62	66	69	71	65	67	67	72	74	64	58	63	59	60	66	67	67	62	62	63	62	63	68	..	62.5
Grant City	Maximum	69	73	76	82	78	86	88	89	88	88	87	92	95	94	95	91	88	88	92	87	89	92	95	89	90	88	86	88	89	87	..	87.3
	Minimum	49	54	51	55	57	57	61	63	67	68	63	64	66	69	74	70	61	56	61	61	64	67	67	65	62	61	63	61	64	68	..	62.3
Kansas City	Maximum	62	73	77	82	84	85	82	85	86	87	90	93	95	95	94	92	84	88	84	84	90	95	96	89	89	83	89	84	84	87	..	86.3
	Minimum	51	54	58	60	64	67	68	68	69	70	74	72	76	76	76	76	70	66	67	64	68	74	76	75	63	63	70	65	71	72	..	68.0
Kidder §§	Maximum	63	74	80	83	84	88	86	87	87	87	92	94	97	95	96	92	83	92	79	85	91	95	96	84	83	88	90	85	85	89	..	87.0
	Minimum	46	53	51	54	57	58	62	63	65	69	67	67	69	71	73	71	62	57	60	60	63	65	67	68	62	61	62	60	62	67	..	62.4
Lexington	Maximum	85	63	75	78	82	86	87	85	89	88	87	93	95	97	95	95	96	85	89	90	86	91	97	97	94	88	85	90	85	85	..	87.9
	Minimum	54	57	52	55	58	58	62	63	68	69	74	71	75	70	72	76	70	61	61	63	62	64	70	70	66	63	67	63	66	69	..	65.0
Maryville	Maximum	65	75	77	81	81	84	85	86	85	88	86	92	95	94	94	90	89	89	86	88	91	94	96	86	87	85	85	86	85	88	..	86.4
	Minimum	47	54	50	55	60	58	61	63	68	69	64	66	66	72	73	70	61	58	62	59	62	66	66	64	61	61	65	60	64	68	..	62.4
Oregon	Maximum	63	72	77	82	81	85	86	85	80	89	89	94	96	91	92	89	83	86	84	87	90	92	94	83	87	78	83	83	85	88	..	85.1
	Minimum	47	52	50	54	59	59	62	64	67	67	65	65	67	67	73	66	60	58	61	61	63	65	67	65	62	60	65	58	66	69	..	62.1
St. Joseph	Maximum	64	72	77	83	84	86	87	88	87	88	89	94	97	91	95	91	84	90	85	88	92	95	96	82	86	85	87	84	84	88	..	86.7
	Minimum	51	55	54	58	62	63	65	68	70	70	70	68	72	74	77	74	66	60	65	62	65	66	72	71	63	63	69	61	66	70	..	65.7
Trenton	Maximum	69	72	75	78	83	85	86	88	88	88	87	91	93	94	94	90	85	85	82	83	88	91	94	85	90	83	85	84	89	88	..	85.8
	Minimum	48	56	50	55	60	62	64	65	69	70	69	65	68	70	73	75	64	60	58	60	65	68	70	70	61	62	68	64	65	68	..	64.1

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

551.65
UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

AUG 4 1922

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVI. COLUMBIA, MO., JULY, 1922 NO. 7.

GENERAL SUMMARY.

July, 1922, in Missouri, was a month of nearly normal warmth, sunshine, and wind. The rainfall resulted chiefly from local showers and thunderstorms, and was of course of irregular distribution. The monthly total, however, was more than has fallen in any other July since 1915. The outstanding feature was the excessive rain of the 10th, 11th, and 12th in northern sections, and resulting destructive floods in the bottom lands of the Grand, Nodaway, Platte, and One Hundred and Two Rivers. It was the worst and most destructive flood since 1909. The damage and in many cases total loss to crops and other property amounted to, as estimated by the press, more than $1,000,000.

Aside from the destructive flood mentioned, the weather of the month was the most favorable for crop development of any July since 1910. At the close of the month the corn crop was in excellent condition generally, save locally in a few eastern counties. Fruit, truck and minor crops, pastures and live stock were generally in satisfactory condition.

There were a few damaging wind storms. See special notes.

TEMPERATURE.

The monthly mean temperature for the State, 67 stations reporting, was 76.8. This is approximately normal. The first 20 days were mainly slightly cooler than normal, while the last 10 were mainly slightly warmer than usual. There were several consecutive hot days during the last week when maxima ranged in the high 90's generally, while locally at about 8 stations 100 and higher were recorded.

PRECIPITATION.

The average precipitation for the State, 86 stations reporting, was 5.85 inches. The departure from the normal for 76 stations having 10 or more years' record was plus 1.82 inches. The month was somewhat drier than normal in most of the east-third of the State but was unusually wet in most of the southwestern and northwestern sections. Excessive and damaging rains occurred over the northwestern plateau during a three-day rain, the 10th, 11th, and 12th. The bottom lands drained by the Grand, Platte, and One Hundred and Two Rivers were badly damaged by the worst flood since 1909. The heaviest totals of this rain storm are given in the following table: (Inches)

July	10	11	12	Total	July	10	11	12	Total
Bethany	6.00	0.27	1.65	7.92	Liberty	1.26	2.05	1.05	4.36
Chillicothe	1.40	1.93	1.38	4.71	Maryville	10.82	0.18	0.73	11.73
Downing	3.40	1.45	1.41	6.26	St. Catherine	1.45	1.85	1.45	4.75
Grant City	12.25	0.25	1.36	13.86	Trenton	3.34	0 65	2.34	6.33
Kirksville	1.94	1.85	1.84	5.63	Unionville	2.50	1.90	1.10	5.50

The flood condition in the northern section was further augmented by heavy rain on the 17th, as follows: Brunswick, 3.10; Clifton Hill, 2.57; St. Catherine, 4.55, and Trenton, 4.45 inches. The greatest falls in any consecutive 24 hours were 12.25 and 10.82 inches at Grant City and Maryville, respectively, on the 10th.

WIND.

The prevailing winds were from the south. The average movement, based on records of 8 well placed stations equipped with anemometers, was 5,580 miles, and about 4 per cent more than the average. There were some local high winds on the 9th, 11th, and 29th. Damage was confined to small areas.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine for the State, based upon the records of 6 stations equipped with sunshine recorders, was 223, or about 72 per cent of the possible and about normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---At Kansas City on the 26th.

Halos, solar.---2nd, 6th, 9th, 11th, 12th, 16th, 17th, 18th, 20th, 21st, 22nd, 23rd, 24th, and 29th.

Halos, lunar.---On the 31st.

Thunderstorm.---On the 1st 6th, 7th, 10th, 11th, 12th, 17th, 23rd, 25th, 29th, and 30th.

SPECIAL STORM NOTES.

July 10-12th. Period of excessive rainfall, severe thunderstorms and damaging squall winds, probably most severe night of 10th. At Kansas City, trees or heavy boughs falling on telephone and electric light lines broke down over 8,000 poles; 25 street cars were stalled because of burned out motors; streets and basements were flooded in low places. Estimate of damage about $35,000. The extreme wind velocity was 56 miles from the northwest. Maryville reported 10.82 inches rainfall from 3.30 p.m. of 10th to 7 a.m. of 11th; Grant City reported 12.25 inches before 6 p.m. of the 10th. Very destructive floods in One Hundred and Two, Platte, Nodaway, and Grand Rivers, together with all the many western and central tributaries of the latter. Statistics of the flood damage are not yet compiled.

July 16-17th. St. Catherine reported over four inches rainfall in one hour on the morning of the 17th. Near Lancaster, 1,000 feet of railway track was washed out and an extra freight engine ran off at the break. At Downing and Amoret barns were struck by lightning and burned. Local damage to growing crops were reported over wide areas.

July 23rd. At Birds Point, near the ferry landing, a man was killed by lightning.

July 29th. Minor damage at Kansas City during severe thunder squall. Branches of trees were blown on telephone and lighting equipment and many poles broken down. At Columbia, trees and heavy boughs blocked streets and caused quite general interruption of lighting and telephone service for 24 hours. Three women were seriously injured by a tree falling on the car in which they were driving. Several plate glass store fronts were broken; the green houses suffered heavily; haystacks, windmills, etc., were blown down. Damage occurred over 100 square miles.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	30.00	83	60	293	65	4,385	5.9	44	w.	29
Hannibal	30.00	76	..	...	..	5,607	7.5	36	sw.	11
Kansas City	29.98	79	57	358	79	6,163	8.3	56	nw.	29
St. Joseph	29 97	82	58	352	77	4,975	6.7	48	nw.	11
St. Louis	30 00	70	53	294	69	7,960	10.7	42	s.	9
Springfield	30.02	81	61	303	68	6,124	8.2	31	nw.	25
Cairo, Ill	30.01	81	64	...	..	4,889	6.6	27	nw.	23
Keokuk, Iowa	30.02	72	52	339	75	4,528	6.1	26	n.	12

COMPARATIVE DATA FOR JULY.

Year.	Temperature. Mean.	Departure.	Highest.	Lowest.	Precipitation. Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of days. With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	79.3	+2.3	111	50	3.31	−0.98	......	0	7	....	....	....
1889	77.1	+0.1	107	46	3.75	−0.54	......	0	8	....	....	....
1890	79.6	+2.6	106	52	2.98	−1.31	......	0	5	....	....	....
1891	72.7	−4.3	103	40	3.55	−0.74	......	0	8	....	....	....
1892	75.8	−1.2	101	45	4.99	+0.70	4.75	0	8	12	10	9
1893	77.3	+0.3	101	51	4.91	+0.62	6.44	0	8	14	12	5
1894	76.5	−0.5	109	42	2.48	−1.81	4.90	0	5	18	10	3
1895	74.4	−2.6	106	45	6.79	+2.50	6.52	0	10	10	12	9
1896	77.3	+0.3	108	48	5.87	+1.58	8.00	0	9	15	11	5
1897	78.7	+1.7	106	48	3.22	−1.07	4.05	0	6	19	9	3
1898	76.1	−0 9	104	42	5.58	+1.29	8.15	0	9	16	10	5
1899	76.0	−1.0	102	43	4.51	+0.22	4.48	0	9	15	11	5
1900	76.9	−0.1	102	46	4.11	−0.18	7.03	0	8	17	10	4
1901	85.4	+8.4	116	46	2.02	−2.27	3.78	0	5	19	10	2
1902	77.0	0.0	103	50	4.59	+0.30	5.30	0	8	17	11	3
1903	77.4	+0.4	102	51	3.22	−1.07	3.26	0	8	17	10	4
1904	74.2	−2.8	100	47	4.65	+0.36	4.15	0	10	15	11	5
1905	73.4	−3.6	101	48	7.45	+3.16	7.60	0	12	12	10	9
1906	74 7	−2.3	100	48	3.53	+0 76	4.46	0	8	17	10	4
1907	78.4	+1.4	105	47	4.57	+0.28	6.70	0	8	19	8	4
1908	76.5	−0.5	101	49	2.23	−2.06	2.65	0	8	18	9	4
1909	76.7	−0.3	102	41	6.41	+2.12	10.71	0	10	17	8	6
1910	76.8	−0.2	109	46	6.70	+2.41	5.80	0	9	16	9	6
1911	78.0	+1.0	113	43	3.95	−0.34	4.20	0	8	16	9	6
1912	78.8	+1.8	104	52	2.74	−1.55	3.17	0	7	18	9	4
1913	80.2	+3.2	108	47	3.13	−1.16	3.62	0	7	18	9	4
1914	80.5	+3.7	109	45	2.67	−1.66	4.45	0	7	17	9	5
1915	74.6	−2.4	102	42	6.05	+1.59	6.77	0	12	14	9	8
1916	81 6	+4.6	109	52	1.25	−3.15	2.55	0	3	25	5	1
1917	77.5	+0.2	107	42	2.96	−1.22	3.40	0	8	20	8	3
1918	77.1	+0.2	110	41	1.76	−2.49	3.75	0	6	19	8	4
1919	80.0	+2.3	115	50	2.33	−1.37	4.55	0	5	23	6	2
1920	76.3	−0.9	105	47	3 25	−0.84	3.84	0	7	18	8	5
1921	80.3	+2.9	109	46	2.32	−1.77	2.25	0	5	20	8	3
1922	76.8	−0.7	103	46	5.85	+1.82	12.25	0	8	17	9	5

Climatological Data for July, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	76.6	+ 1.4	97	27†	51	4	35	10.30	+5.66	3.10	0	9	18	0	13	ne.	O. K. Benecke
Clifton Hill	Randolph	731	22	76.1	+ 0.1	97	9	50	3	32	7.04	+2.78	2.57	0	7	19	7	5	......	Dr. A. J. Bradsher
Columbia	Boone	748	31	75.8	− 1.2	96	22	50	4	31	3.49	−0.16	1.08	0	10	16	8	7	s.	U. S. Weather Bureau
Downing	Schuyler	878	11	75.2	......	95	9	52	4†	35	9.07	+4.17	3.40	0	9	20	8	3	s.	E. E. St. Clair
Fayette	Howard	661	38	75.1	− 2.3	96	29	48	4	36	5.13	+1.36	1.52	0	6	..	..	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	29	78.8	+ 0.9	99	28	51	4	29	2.43	−1.91	0.89	0	9	7	21	3	s.	Westminster College
Gorin	Scotland	700	34	....	......	..	..	..	..	..	6.22	+2.04	2.16	0	8	14	8	9	se.	J. W. Pulliam
Hannibal	Marion	534	37	75.8	− 1.6	96	22	54	8	31	2.26	−1.49	0.92	0	9	11	12	8	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	77.1	− 1.0	99	28†	53	4	35	3.52	+0.07	1.20	0	9	23	5	3	s.	Miss Emma Swift
Kirksville	Adair	969	39	74.2	− 1.9	92	9†	50	4	33	11.95	+7.37	3.20	0	7	18	7	6	nw.	Prof. J. S. Stokes
Louisiana	Pike	469	40	77.7	+ 1.7	98	26†	50	3†	38	3.52	+0.23	1.52	0	8	23	4	4	w.	J. T. Farrell
Macon	Macon	875	28	75.2	− 2.2	97	9	51	4	36	6.10	+2.44	1.52	0	12	22	2	7	sw.	W. C. Brown
Mexico	Audrain	800	43	76.2	− 1.1	100	26	50	4	33	3.78	−0.23	1.15	0	8	23	2	6	w.	Mrs. Abbie Snoddy
Palmyra	Marion	652	22	75.4	− 3.7	99	9	48	4	34	3.05	−0.46	1.04	0	7	17	6	8	se.	W. B. Markell
St. Catherine	Linn	800	12	74.5	− 1.6	93	9†	51	4	31	10.27	......	4.55	0	8	12	18	1	sw.	L. D. Baker
St. Charles††	St. Charles	456	43	78.6	+ 0.9	99	27†	50	8	38	1.09	−2.41	0.48	0	6	16	11	4	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	78.8	+ 0.2	96	31	60	4	26	2.42	−1.01	1.13	0	9	8	15	8	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	78.4	− 1.7	96	27†	59	4	26	1.92	−0.83	0.93	0	10	15	11	5	s.	St. Louis University
Shelbina	Shelby	779	28	....	......	..	..	..	..	..	3.83	−0.77	1.28	0	5	..	..	..	.....	S. G. Parsons
Steffenville	Lewis	650	28	78.2	+ 1.0	99	9	50	4	35	5.55	+0.70	1.75	0	7	17	12	2	e.	Frank Hall
Unionville	Putnam	1,062	28	73.9	− 2.8	94	27	48	4	34	10.80	+6.61	4.40	0	10	12	10	9	sw.	Geo. W. Davis
Warrenton	Warren	816	31	77.6^{a}	0.0	100	27	52	4	36	2.04	−1.89	0.70	0	8	8	16	7	s.	Prof. A. W. Eberling
Keokuk, Iowa	Lee, Ia.	574	49	75.5	− 1.5	96	9	57	4	26	6.35	+2.32	3.65	0	7	11	9	11	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	76.3	− 0.9	100	26†	48	4	38	5.50	+1.29	4.55	0	8	16	9	6	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	83.0	+ 2.4	103	24†	57	5	36	7.75	+4.34	2.05	0	6	24	4	3	e.	H. E. Averill
Doniphan	Ripley	344	17	78.8	+ 0.6	99	29	53	5	35	4.28	−0.45	1.35	0	8	14	9	8	sw.	W.W. Martin
Jackson	Cape Girardeau	428	31	78.2	+ 0.8	99	28	51	4	34	6.70	+3.18	1.55	0	9	8	9	14	s.	John G. Putz
Marble Hill	Bollinger	470	27	77.2	− 0.1	97	28†	50	4	36	5.46	+0.78	2.33	0	7	14	17	0	w.	R.A. DeWitt
Parma	New Madrid	281	..	....	......	..	..	..	..	..	2.82	......	0.75	0	7	..	..	..	......	J.E. Pearce
Patton (near)	Bollinger	500	11	....	......	..	..	..	..	..	3.20	−0.54	2.00	0	4	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	329	17	79.8	+ 1.1	100	27†	54	4	32	3.28	−0.27	1.09	0	8	13	16	2	s.	Rev. John H. Gallaher.
Vanduser	Scott	304	..	....	......	..	..	..	..	..	2.45	......	1.33	0	8	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	78.6	0.0	95	28	58	4	21	4.49	+1.04	1.90	0	5	9	8	14	s.	U. S. Weather Bureau
Section means and	extremes	....	..	79.3	+ 0.8	103	24†	50	4	36	4.49	+1.15	2.33	0	7	14	10	7	s	
Ozark Plateau.																				
Arcadia	Iron	926	43	75.1	− 0.8	97	27†	48	4	40	2.53	−1.71	1.13	0	9	11	13	7	sw.	Arcadia College
Birchtree	Shannon	1,000	28	76.2	− 0.2	97	29	52	5	32	4.30	+0.31	1.20	0	7	19	11	1	s.	V. H. Kirkendall
Bolivar	Polk	1,071	32	78.0	+ 0.9	97	1†	51	4	38	7.13	+3.38	3.34	0	9	27	1	3	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	76.4^{a}	− 1.2	99	31	48	4	38	6.74	+2.69	3.37	0	7	23^{a}	4^{a}	3^{a}	e.	H. E. Dean
Eldon	Miller	934	22	77.1	+ 0.1	101	22	50	4	32	4.09	+0.43	0.78	0	8	12	13	6	s	E. H. Shepherd
Farmington	St. Francois	918	24	76.2	− 0.9	98	28	52	4	32	2.87	−0.68	0.93	0	9	18	11	2	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	75.2	− 1.7	98	28†	49	4	33	3.18	−0.32	1.09	0	8	19	11	1	s.	A. C. Leach
Goodland	Iron	1,000	28	75.4	− 0.2	98	27†	46	4	38	2.47	−1.71	0.93	0	5	17	10	4	s	F. M Adams
Greenville	Wayne	381	..	77.4	.....	100	28†	47	4	36	2.58	......	0.50	0	9	20	4	7	sw.	J. J. Amen.
Hollister	Taney	735	18	79.1	− 0.3	102	29	49	4	40	4.55	+0.63	1.50	0	5	24	3	4	sw.	W. P. Chapmann
Houston	Texas	1,280	29	76.2	+ 0.1	97	28	49	4	38	5.97	+1.91	1.03	0	10	19	9	3	ne.	Walter T. Beard
Koshkonong ††	Oregon	958	20	79.4^{n}	+ 1.1	96	24†	..	..	..	3.86	−0.06	2.00	0	6	12^{j}	8^{j}	1^{j}	se.	R. M. Hitt
Lebanon	Laclede	1,265	34	77.0	+ 0.1	99	28†	46	4	41	3.86	−0.26	1.65	0	10	21	9	1	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	77.6	0.0	97	31	58	5	30	6.16	+1.29	3.02	0	8	24	4	3	sw.	C. S. Crow
Mountain Grove	Wright	1,463	25	76.0	0.0	97	24†	51	4	37	3.77	−0.23	0.77	0	11	10	11	10	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	77.3	− 0.3	98	31	50	4	34	6.75	+2.57	2.92	0	6	25	4	2	s.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	77.9	+ 0.5	99	27†	53	4	31	5.01	+0.92	0.87	0	8	17	13	1	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	15	76.6^{a}	0.0	95	31	53	4	30	6.41	+2.01	3.37	0	7	21^{a}	6^{a}	3^{a}	sw.	Floyd E. Fawver
Seymour	Webster	1,642	16	75.0	− 0.5	94	28	47	4	38	4.58	−0.17	1.09	0	11	18	12	1	s.	Ira H. Hailey
Springfield	Greene	1,350	42	76.4	0.0	95	22	57	4	25	6.15	+1.36	2.49	0	11	20	9	2	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	76.6	− 0.2	102	29	46	4	41	4.69	+0.69	3.37	0	8	19	8	4	s.	
Southwest Plain.																				
Amoret	Bates	831	15	75.7	− 1.9	98	31	50	4	38	4.82	+0.86	1.50	0	9	20	6	5	sw.	Darby Fruit Farm
Appleton City	St. Clair	853	29	77.2^{b}	− 1.1	96	22†	56	4	30	6.48	+1.85	1.62	0	10	13^{b}	15^{b}	1^{b}	sw.	W. G Bigelow
Clinton	Henry	765	34	78.6	+ 1.1	101	28	53	7	33	4.07	+0.13	0.80	0	9	26	4	1	ne.	A. E. Derwent, M. D.
Harrisonville	Cass	904	46	75.8	− 2.0	97	29	57	3	28	4.32	+0.54	1.23	0	11	9	7	15	s.	John H. Patterson
Lamar	Barton	980	40	77.0	− 1.5	99	28†	51	4	36	7.87	+3.63	2.00	0	8	25	2	4	s.	Joe W. Springer
Lamonte	Pettis	867	35	....	......	..	..	..	..	..	....	......	....	0	..	..	..	..	..	J. E. Wheeler
Marshall	Saline	779	32	76.0^{b}	− 1.3	97	26†	50	4	33	5.20	+1.24	1.60	0	7	20^{a}	10^{a}	0^{a}	sw.	Dr W. H. Black
Nevada	Vernon	862	30	75.4	− 4.8	95	31	48	5	35	6.02	+2.09	1.72	0	8	18	9	4	s.	George A. Kaupp
Warsaw	Benton	687	26	77.0	− 1.3	97	29†	51	4	37	9.65	+5.35	1.80	0	12	15	14	2	e.	J. R. Smith, M. D.
Section means and	extremes	.....	..	76.6	− 1.6	101	28	48	5	38	6.05	+1.96	2.00	0	9	18	9	4	s.	
Northwest Plateau.																				
Avalon	Livingston	730	24	75.8	− 3.1	95	26†	57	4	30	7.50	+3.33	3.50	0	7	19^{a}	11^{a}	0^{a}		F. G. Ashbaugh
Bethany	Harrison	916	30	....	......	..	..	..	..	..	12.84	+8.33	6.00	0	7	..	..	..	...	M. H. Moulton
Chillicothe	Livingston	779	13	74.7	− 3.1	93	31	49	4	34	6.79	+1.64	1.93	0	9	19	8	4	e.	Wm. J. Olenhouse
Conception	Nodaway	980	37	75.4	− 0.5	96	31	54	3	33	8.62	+4.27	3.38	0	9	13	13	5	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	9	74.2^{h}	......	94	21	..	..	..	5.31	+0.34	2.17	0	9	26^{a}	0^{a}	4^{a}	s.	Fred L. Stiff
Grant City	Worth	1,134	30	74.4^{d}	− 1.2	94	22	50	4	34	17.68	‡12.74	12.25	0	7	19	12	0	s.	B. F. Locke
Kansas City	Jackson	963	32	76.9	− 0.7	95	29	59	3	23	4.66	−0.18	3.01	0	11	12	16	3	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	34	75.7	− 1.0	97	26	52	4	32	7.08	+2.97	1.58	0	10	17	5	9	se.	Linn Terry
Lexington	Lafayette	688	39	76.5	− 0.6	96	30	54	4	32	5.02	+0.30	1.44	0	8	15	9	7	se.	Edwin G. Loomis
Liberty	Clay	859	31	76.4	− 1.3	97	29	52	5	38	5.46	+0.86	2.05	0	7	14	15	2	se.	James H. Harris
Maryville	Nodaway	1,109	27	74.0	− 1.5	92	31	54	3	28	15.21	+9.50	10.82	0	13	20	0	11	s.	J. R. Brink
Oregon	Holt	1,048	66	74.4	− 1.0	90	26	50	3†	31	5.76	+1.38	1.96	0	6	14	17	0	se.	Tom Curry
St. Joseph	Buchanan	967	49	76.1	− 3.1	94	31	53	4	29	4.16	+0.28	2.11	0	9	17	11	3	se.	U. S. Weather Bureau
Tarkio	Atchison	916	28	73.4	− 3.4	91	28	51	4	31	5.85	+2.01	2.65	0	7	18	6	7	se.	Albert Volker
Trenton	Grundy	822	26	74.8	− 1.7	91	9†	52	4	32	15.89	‡11.91	4.45	0	8	21	7	3	se.	W. H. Estes
Section means and	extremes	.....	..	75.2	− 1.7	97	26†	49	4	38	8.52	+3.99	12.25	0	8	18	9	4	se.	
State means and	extremes	.....	..	76.8	− 0.7	103	24†	46	4	41	5.85	+1.82	12.25	0	8	17	9	5	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean. Anderson: of Gano. Salem. R. F. D. No. 5. ‡ Indicates plus.

Daily Precipitation for July, 1922.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	.47	.11	....	....	....	....	.25	....	....	.08	.76	.33	....	....	....	....	....	1.40	....	....	....	....	....	.76	. ..	....	....	....	....	1.20	....	5.36
Brunswick‖	Grand	.30	.48	....	....	....	....	.70	....	....	.75	1.75	.84	....	....	....	....	.50	3.10	....	....	....	....	....	....	....	....	....	....	....	1.88	....	10.30
Clifton Hill	Chariton	.38	....	....	....	....	....	.50	....	....	1.60	.37	.89	....	....	....	....	2.57	....	....	....	....	....	T.	....	T.	....	....	....	....	.73	....	7.04
Columbia***	Missouri	.18	T.	....	....	....	.01	.15	....	....	.76	.19	.22	....	....	....	....	.31	....	....	....	....	....	.59	....	....	....	....	....	.10	.98	....	3.49
Downing	Mississippi	03	....	....	....	....	....	.35	....	....	3.40	1.45	1.41	....	....	....	.05	.83	....	....	....	....	....	....	....	....	....	....	....	1.15	.40	T.	9.07
Fayette‖	Missouri	T.	....	....	....	....	T.	.47	....	....	.96	.35	.44	....	....	....	....	1.39	....	....	....	....	....	T.	....	....	....	....	....	1.52	....	....	5.13
Fulton	....do	.89	.03	....	....	....	....	.03	....	....	.49	.04	.15	....	....	....	....	....	....	.20	....	....	....	.20	....	....	....	....	....	....	.40	....	2.43
Gorin	....	....	....	....	....	....	....	.21	....	....	1.16	2.16	1.76	....	....	....	....	.21	....	....	....	....	....	....	....	....	.02	....	....	.20	.50	....	6.22
Hannibal***	Mississippi	.07	T.	....	....	....	T.	.02	....	....	.66	.12	.27	....	....	....	....	.19	.01	....	....	....	T.	....	....	....	....	....	....	.91	.01	....	2.26
Hermann‖	Missouri	.90	1.05	.10	....	....	....	....	....	....	....	.15	.37	....	....	....	....	....	.41	....	....	....	....	....	.10	....	....	.21	..	....	.15	....	3.44
Jefferson City‖	....do	.17	.51	.27	....	....	....	....	....	....	....	.34	.57	.03	....	....	....	....	1.20	....	....	....	....	....	.05	....	....	....	....	....	.38	....	3.52
Kirksville	Mississippi	3.20	....	....	....	....	....	....	....	....	1.94	1.85	1.84	....	....	....	....	1.99	....	....	....	....	....	....	....	....	....	....	....	.55	.58	....	11.95
Louisiana	....do	1.52	.40	...	....	....	....	T.	....	....	.22	.55	.10	....	....	....	....	....	.32	....	....	....	T	....	....	....	....	.05	....	....	.36	....	3.52
Macon‖	Chariton	.46	.05	....	....	....	....	.21	....	....	1.10	1.52	.93	.03	....	....	....	.75	.11	....	....	.02	T.	....	....	....	....	....	....	.43	.49	....	6.10
Mexico‖	Mississippi	.55	.47	....	....	....	....	.01	.01	....	....	1.04	.19	....	....	....	....	....	.36	....	....	....	....	....	....	....	....	....	....	....	1.15	....	3.78
Pacific‖	Meramec	56	.37	.27	....	....	....	....	.02	....	....	.08	.20	T.	....	....	....	....	.64	....	....	....	....	....	.31	....	....	....	....	....	.38	....	2.83
Palmyra‖	Mississippi	....	....	....	....	....	....	....	....	....	.04	1.04	.48	....	....	....	.06	....	.28	....	....	....	....	....	....	....	....	....	....	.26	.89	....	3.05
St. Catherine	Grand	.12	T.	....	....	....	....	.32	....	....	1.45	1.85	1.45	....	....	....	....	4.55	....	....	....	....	....	....	....	....	....	....	....	.05	.48	....	10.27
St. Charles	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	. . .
St. Louis (1)***	Mississippi	T.	.04	....	....	....	....	T.	....	.. .	.10	1.04	.03	....	....	....	....	.22	.01	....	....	....	....	.32	....	....	T.	....	....	.41	.25	...	2.42
St. Louis (2)	....do	.01	.09	....	....	....	....	....	....	....	.03	.93	.06	....	....	....	....	.20	.01	....	....	....	....	.10	....	....	....	....	....	.31	.18	....	1.92
Shelbina	....do	....	.10	...	....	....	....	....	....	....	1.25	.30	.90	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.28	....	3.83
Steffenville	....do	1.10	....	....	....	....	....	T.	....	....	.75	1.75	.85	....	....	....	....	.20	....	....	....	....	....	....	....	....	....	....	....	.25	.65	....	5.55
Union‖	Meramec	.27	1.30	.73	....	....	....	....	....	...	....	.17	.18	.03	....	....	....	....	.37	....	....	....	....	....	.11	....	....	.16	....	....	.18	....	3.50
Unionville	Chariton	.10	....	....	....	....	....	.70	....	....	2.50	1.90	1.10	....	....	....	....	1.35	....	....	....	....	T.	.90	....	T.	....	....	.50	.95	.80	....	10.80
Valley Park‖	Meramec	1.05	.05	.12	....	....	....	....	....	....	....	.05	.22	T.	....	....	....	....	.67	....	....	....	....	....	.14	....	....	....	....	....	.56	....	2.86
Warrenton‖	Mississippi	.70	.44	.10	....	....	....	....	....	....	....	.17	.16	....	....	....	....	....	.29	....	....	....	....	....	.02	....	....	....	....	....	.16	....	2.04
Keokuk, Ia.***	....do	.10	....	....	....	....	T.	.03	....	T.	1.16	1.90	2.32	....	.. .	....	T.	.11	....	....	....	T.	....	....	T.	T.	....	....	....	.73	....	....	6.35
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi	....	....	2.20	....	....	....	....	3.06	....	....	....	....	....	....	....	....	....	.06	....	....	....	....	....	2.25	....	....	....	....	....	....	....	7.57
Caruthersville	....do	.40	1.80	2.05	....	....	....	1.62	1.38	....	....	....	T.	....	....	....	....	....	T.	....	....	....	....	T.	....	T.	....	....	....	....	.50	....	7.75
Doniphan	Black	.95	.70	.40	....	....	....	1.35	.15	....	....	....	T.	....	....	....	....	....	.03	....	....	....	....	T	.35	.35	....	....	....	....	....	....	4.28
Jackson	Mississippi	.11	1.37	1 18	....	....	....	1.27	.38	....	....	....	.40	....	....	....	....	....	....	....	....	....	....	.43	1.55	.01	....	....	....	....	....	....	6.70
Marble Hill	....do	....	1.00	1.20	....	....	....	.10	....	....	....	....	....	....	....	....	....	.03	....	....	....	....	....	2.33	....	.70	....	....	..	....	.10	....	5.46
New Madrid‖	....do	....	.15	.75	.50	....	....	....	1.80	....	....	....	....	.30	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.75	....	....	4.25
Parma	....do	.16	.36	.75	....	....	....	.51	.30	....	....	....	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.64	....	....	....	2.82
Patton (near)	....do	.30	....	2.00	....	....	....	....	....	....	....	....	.60	....	....	....	....	....	....	....	....	....	....	.30	....	....	....	....	....	....	....	....	3.20
Poplar Bluff	Black	.05	.10	1.09	....	....	....	60	.04	....	....	....	.16	.49	....	....	....	....	....	....	....	....	....	....	....	....	.75	....	....	....	....	....	3.28
Vanduser	Mississippi	.05	.24	1.33	....	....	....	.26	.12	....	....	.37	.03	....	....	....	....	....	....	....	....	....	..	.05	....	....	....	....	....	....	....	....	2.45
Cairo, Ill.***	....do	T.	.49	.31	....	....	....	1.23	....	....	....	...	1.90	....	....	....	....	....	....	....	....	....	....	.56	....	....	....	....	....	....	....	....	4.49
Ozark Plateau.																																	
Arcadia‖	St. Francis	.11	.02	1.13	....	....	....	....	T.	....	...	.23	.13	.10	T.	....	....	....	.22	T.	....	....	....	....	.24	.35	....	....	....	....	....	....	2.53
Birchtree	Gasconade	.30	65	.60	....	....	....	....	....	....	....	.33	1.20	.. .	....	....	....	....	....	....	....	....	....	....	1.12	.10	....	....	....	....	....	....	4.30
Bolivar	Black	....	.20	....	....	....	....	...	....	....	.33	.47	1.31	...	....	....	....	....	3.34	....	....	....	....	.11	.07	....	1.20	....	....	....	.10	....	7.13
Dean	Osage	....	.26	....	....	....	....	....	.10	....	.15	3.37	2.44	....	....	....	....	....	.38	....	....	....	....	....	....	....	.04	....	....	....	....	....	6.74
Eldon	Neosho	.36	.78	....	....	....	....	....	....	....	.50	....	.75	....	....	....	.35	....	...	....	....	....	....	.56	.16	....	....	....	....	....	.63	....	4.09
Farmington	Osage	.93	.29	.33	....	....	....	T.	....	....	....	.33	.20	....	....	....	....	T.	.43	....	....	....	....	.21	....	....	T.	....	....	.13	.02	....	2.87
Gano	Meramec	.52	1.09	.32	....	....	....	T.	....	....	T.	.23	.13	....	....	....	....	....	.26	....	....	....	....	....	.40	.23	....	....	....	....	T.	....	3.18
Goodland	Black	....	.30	....	....	....	....	....	....	....	....	93	.35	....	....	....	....	....	.21	....	....	....	....	....	....	.68	....	....	....	....	....	....	2.47
Greenville‖	St. Francis	....	.09	.50	....	....	....	.29	....	....	....	....	.46	....	....	....	....	.23	.41	....	....	....	....	.06	....	.24	....	....	....	....	.30	....	2.58
Hollister	Black	..	.45	....	....	....	....	....	.45	....	1.50	....	1.05	....	....	....	....	....	....	....	....	....	....	....	....	1.10	....	....	....	....	....	...	4.55
Houston	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Jerome‖	Gasconade	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Koshkonong	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lebanon‖	Osage	....	.32	.03	....	....	....	. .	....	....	....	.37	.60	.40	....	.04	....	....	1.65	....	....	....	....	....	T.	.01	.14	....	....	....	T.	.30	3.86
Lockwood	....do	10	.67	....	....	....	....	....	....	....	.65	.60	3.02	....	....	....	....	....	.80	....	....	....	....	.10	....	....	.22	....	....	....	....	....	6.16
Mountain Grove‖	White	.26	.77	.42	....	....	....	....	....	....	....	.57	.65	.20	....	.20	....	. .	.23	.12	....	....	....	....	.23	....	.12	....	....	....	....	....	3.77
Neosho	Neosho	....	73	....	....	....	....	....	T.	....	.64	1.75	2.92	T.	....	....	....	....	.33	....	....	....	....	T.	....	....	.38	....	....	....	....	....	6.75
Rolla	Meramec	.87	.80	....	....	....	....	....	....	....	.46	.48	T.	....	....	....	....	.87	...	....	....	....	....	.55	.78	....	....	....	....	.20	....	....	5.01
Seligman	Barry	....	.07	.04	....	....	....	....	....	....	.17	3.37	2.19	....	....	....	....	....	....	.12	....	....	....	....	T.	....	.45	....	....	....	....	....	6.41
Seymour	White	.45	.24	.15	....	....	....	....	T.	....	.06	1.09	.75	....	.53	....	....	....	.41	....	....	....	....	.32	....	.21	.37	....	....	....	T.	....	4.58
Springfield***	....do	.16	19	....	....	....	....	....	T.	....	.14	.86	1.61	....	....	....	....	.27	.39	....	....	....	....	.03	.44	2.05	.01	....	....	....	T.	T.	6.15
Steelville‖	Meramec	.72	.20	1.67	....	....	....	....	....	....	....	.82	.10	....	....	....	....	....	1.45	....	....	....	....	....	.32	....	....	....	....	....	....	.81	6.09
Tuscumbia‖	Osage	.01	.26	.56	....	....	....	....	....	....	...	.37	1.21	.04	....	....	....	....	.43	....	....	....	....	....	.27	.16	.02	....	....	....	.35	....	3.68
Southwest Plain.																																	
Amoret	Osage	.28	.02	....	....	....	....	.65	....	....	1.00	.10	.88	....	....	....	....	1.50	....	....	..	....	. .	....	....	.32	....	....	....	....	.07	....	4.82
Appleton City	....do	.22	.46	....	....	....	....	.58	....	....	.60	.08	55	....	....	....	....	....	.91	....	....	....	....	.22	....	1.24	....	....	....	....	1.62	....	6.48
Clinton	....do	.15	.17	....	....	....	.60	....	....	....	.60	.10	.70	....	....	....	....	.60	.35	....	....	....	....	....	....	....	....	....	....	....	.80	....	4.07
Harrisonville‖	....do	.26	....	.02	....	....	....	.53	....	....	.76	.10	1.23	.01	....	....	....	....	.20	....	....	T.	....	.48	....	....	.02	....	....	....	.71	....	4.32
Lamar‖	Neosho	....	1.80	1.70	....	....	....	....	....	....	....	1.10	2.00	.04	..	....	....	....	.45	....	....	....	....	.28	....	....	.50	....	....	....	....	....	7.87
Lamonte	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Marshall	....do	.10	....	....	....	....	....	.60	....	....	.70	.40	1.60	....	....	....	....	.60	....	....	....	....	....	T.	T.	....	.. .	....	....	....	1.20	....	5.20
Nevada	Osage	1.72	1.20	....	....	....	....	.13	....	....	.92	.31	1.66	....	....	....	....	....	.03	....	....	....	....	....	....	.05	....	....	....	....	....	...	6.02
Osceola‖	....do	....	.50	.58	....	....	....	.10	....	....	....	.85	.90	....	....	....	....	....	1.15	....	....	....	..	....	....	....	....	....	....	....	1.08	...	5.16
Warsaw	Osage	1.25	.75	....	....	....	....	.15	....	....	.65	.10	.95	....	....	....	...	1.80	.30	....	....	....	....	.40	....	....	1.45	....	....	....	1.45	.40	9.65
Waverly‖	Missouri	....	....	....	....	....	....	1.03	....	....	1.20	1.38	.74	T.	....	....	....	....	.61	....	....	T.	....	....	T.	....	.49	....	....	....	1.62	....	7.07
Northwest Plateau.																																	
Avalon	Grand	.35	....	....	....	...	.35	....	....	....	1.25	2.25	1.25	....	....	....	....	1.25	....	....	....	....	....	....	....	....	....	....	....	.80	....	....	7.50
Bethany	....do	.12	....	....	....	....	1.40	....	....	....	6.00	.27	1.65	....	....	....	.. .	2.68	....	....	....	....	....	....	....	....	....	....	....	.72	....	....	12.84
Chillicothe‖	....do.	....	.47	....	....	....	....	.41	....	....	1.40	1.93	1.38	....	....	....	....	.98	.05	....	....	....	....	....	T.	....	.06	....	....	....	.11	....	6.79
Conception	Missouri	.45	T	....	....	....	T.	2.05	....	.16	3.38	.11	1.54	....	....	....	.06	.22	....	....	T.	....	....	....	T.	T.	....	....	....	.65	....	....	8.62
Edgerton	Grand	T.	.48	....	....	....	....	....	....	....	1.48	2.17	.84	....	....	....	....	.01	....	....	....	T.	T.	.02	.05	.03	....	....	....	.23	....	....	5.31
Grant City	....do	....	....	....	....	....	....	1.25	....	....	(a)	.25	1.36	..	....	....	....	.79	....	....	....	....	....	....	....	.06	....	....	....	1.72	....	....	17.68
Kansas City***	Missouri	.02	....	....	....	....	.60	.01	....	....	2.99	.78	.09	....	....	....	T.	.01	....	....	....	.01	....	.13	.01	T.	....	....	....	.01	....	....	4.66
Kidder‖	Grand	....	.32	....	....	....	....	.46	....	....	1.09	1.24	1.41	....	....	....	....	.31	.09	....	....	.01	....	....	....	....	.57	....	....	....	1.58	....	7.08
Lexington	Missouri	.09	.05	....	....	....	...	.86	....	....	1.44	1.00	.83	....	....	....	....	....	.60	....	....	....	....	....	....	....	....	....	....	....	.15	....	5.02
Liberty	....do	.06	....	....	....	....	....	.72	....	....	1.26	2.05	1.05	....	....	....	....	.04	T.	....	....	....	....	....	....	T.	....	....	....	....	.28	....	5 46
Maryville	....do	.36	....	.01	....	....	....	1.67	....	....	(b)	.18	.73	....	....	....	.10	.10	.06	....	....	....	....	....	.08	.03	....	....	....	.98	.09	....	15.21
Oregon	....do	04	....	....	....	....	1.05	....	....	....	1.47	1.96	....	....	....	....	....	.68	....	....	....	....	....	....	....	T.	....	....	....	.56	....	....	5.76
St. Joseph***	....do	T.	....	....	....	....	.39	.02	....	...	1.37	1.84	....	....	....	....	T.	.41	....	....	T.	.01	....	T.	.05	.06	....	....	....	.01	....	....	4.16
Tarkio	....do	.03	....		..	....	T.	1.42	....	.09	2.65	.34	.51	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.81	....	....	5.85
Trenton	Grand	3.76	T	....	....	....	T.	.76	....	3.34	.65	2.34	....	....	....	....	....	4.45	....	....	T.	T.	....	....	.02	T.	....	....	....	.57	....	....	15.89

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

(a) 12.25 inches. (b) 10.82 inches.

Daily Temperatures for July, 1922.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	88	81	81	85	87	85	80	87	91	80	86	84	89	89	91	91	74	87	89	87	91	92	92	91	93	96	97	97	96	90	94	88.6
	Minimum	70	68	56	51	59	63	63	56	59	67	66	63	62	65	63	67	66	65	61	63	62	70	73	66	68	68	71	73	69	68	62	64.6
Columbia	Maximum	85	77	78	79	84	85	77	85	95	80	83	78	83	85	89	91	88	82	83	85	87	96	86	90	91	94	94	95	95	85	92	86.4
	Minimum	69	68	56	50	57	63	58	54	74	67	68	64	63	66	63	72	69	66	57	60	63	74	68	64	69	72	72	70	70	69	64	65.1
Fayette §§	Maximum	83	79	81	80	84	87	78	87	95	77	83	80	85	87	89	90	82	84	85	85	87	93	89	89	92	93	93	94	96	85	91	86.5
	Minimum	69	66	58	48	49	62	64	51	72	66	66	63	62	63	62	65	66	63	57	59	63	72	72	62	68	68	69	70	69	68	64	63.7
Hannibal	Maximum	90	80	78	80	83	86	79	85	95	83	83	80	84	86	89	93	80	81	81	85	90	96	89	90	90	92	92	93	82	83	92	86.1
	Minimum	69	69	58	54	60	66	59	54	76	66	69	65	63	64	63	71	67	63	58	59	63	74	68	64	69	74	72	72	66	68	68	65.5
Jefferson City §§	Maximum	93	73	78	80	86	84	78	90	96	82	86	80	86	85	90	91	92	84	85	87	86	96	85	91	92	96	96	99	99	87	97	88.1
	Minimum	70	69	60	53	58	58	67	55	66	74	67	67	66	67	63	69	72	67	61	60	62	66	74	66	68	72	72	71	73	70	65	66.1
Kirksville	Maximum	89	82	78	81	84	89	86	88	92	85	84	80	86	85	87	89	84	83	85	85	85	87	88	86	81	92	91	88	84	85	88	85.7
	Minimum	69	63	54	50	56	65	61	55	73	65	65	60	59	62	61	67	65	61	56	60	64	70	69	63	64	65	66	63	61	66	64	62.6
Louisiana	Maximum	95	90	88	84	86	90	90	84	96	96	95	92	92	90	90	95	93	92	88	90	92	95	96	90	93	98	98	97	91	88	94	92.0
	Minimum	68	68	50	50	65	62	68	50	73	66	68	67	58	58	58	66	75	62	54	54	58	64	75	60	65	68	68	66	70	68	62	63.4
Macon §§	Maximum	86	84	80	84	88	88	80	88	97	78	84	82	86	88	90	91	84	85	86	87	89	90	90	91	93	95	96	95	86	88	94	87.8
	Minimum	65	65	55	51	57	63	61	55	61	65	64	60	60	60	61	68	65	61	58	59	61	68	70	63	65	67	69	70	65	64	65	62.7
Mexico §§	Maximum	90	78	78	83	86	87	88	89	98	79	86	80	85	82	92	93	85	83	85	88	91	98	89	92	95	100	97	98	95	86	94	88.7
	Minimum	68	66	57	50	56	61	66	57	69	67	65	63	60	62	62	63	72	62	55	59	62	67	74	62	65	72	68	69	68	67	65	63.8
St. Catherine	Maximum	87	82	76	82	83	81	80	83	93	84	80	80	80	84	85	87	82	82	86	86	85	87	87	86	87	93	92	89	84	83	90	84.8
	Minimum	68	65	54	51	60	64	62	54	73	65	66	60	62	63	64	68	64	62	58	61	66	71	70	64	65	68	71	71	67	67	66	64.2
St. Louis (1)	Maximum	92	80	76	80	82	84	79	84	92	90	86	85	84	84	89	93	91	84	85	87	88	92	90	91	90	94	96	95	91	87	96	87.6
	Minimum	70	70	64	60	64	65	73	62	72	77	71	71	70	67	67	74	70	68	67	69	70	71	71	73	72	76	76	78	70	70	70	69.9
Unionville	Maximum	86	83	78	82	86	85	84	84	90	84	84	82	86	86	87	88	84	84	86	85	86	90	88	85	87	92	94	90	86	86	92	86 1
	Minimum	67	60	50	48	56	65	56	54	74	62	66	60	56	60	66	65	65	58	55	56	65	70	65	62	60	62	66	66	65	67	65	61.7
Warrenton §§	Maximum	95	75	68	82	85	88	81	88	95	84	87	81	85	90	94	96	91	85	86	89	93	99	87	91	95	99	100	99	96	90	101	89.5
	Minimum	68	69	60	52	55	60	69	57	68	71	68	68	64	63	60	68	73	65	59	60	63	69	74	..	68	73	71	72	70	69	65	ᵃ65.7
Southeast Lowlands.																																	
Caruthersville	Maximum	100	93	75	88	91	92	89	90	100	97	90	87	95	93	98	99	96	92	98	98	99	100	100	103	101	98	102	103	103	99	100	95.8
	Minimum	70	67	67	59	57	60	69	70	71	74	70	71	73	71	71	71	71	74	71	65	63	68	77	74	70	75	75	75	75	77	71	70 1
Doniphan	Maximum	91	90	74	80	83	86	87	83	89	91	90	87	88	88	92	93	94	87	89	89	93	95	95	97	92	95	97	98	99	96	98	90.5
	Minimum	70	69	64	54	53	54	67	67	70	73	76	69	69	68	66	66	68	70	68	62	58	63	74	67	69	72	70	72	71	74	66	67.1
Jackson	Maximum	95	93	75	80	84	86	85	86	91	92	88	85	93	90	92	95	97	87	89	90	91	93	89	90	92	95	97	99	96	92	97	90.5
	Minimum	70	69	66	51	53	55	68	62	70	71	76	71	66	60	62	65	71	67	59	56	57	67	74	65	72	70	70	71	70	73	64	65.9
Poplar Bluff	Maximum	94	92	77	83	84	86	86	85	90	91	88	85	89	89	92	92	93	89	90	91	91	93	93	95	96	92	100	100	100	96	100	91.0
	Minimum	72	73	64	54	55	56	70	67	69	75	77	70	68	73	67	67	70	70	66	61	61	61	76	70	71	73	72	73	72	76	68	68.5
Cairo, Ill.	Maximum	88	88	72	76	80	83	86	83	87	88	86	83	85	85	88	88	89	82	81	86	87	88	89	88	90	91	91	95	94	88	92	86.5
	Minimum	74	71	65	58	62	64	71	69	72	78	76	71	71	68	68	71	73	71	67	68	67	69	70	70	74	74	76	77	76	76	71	70.6
Ozark Plateau.																																	
Arcadia §§	Maximum	88	86	73	76	82	83	83	85	89	91	83	84	84	82	89	90	93	83	85	87	86	92	86	90	89	91	97	97	95	86	99	87.2
	Minimum	68	67	63	48	49	54	65	59	63	73	73	68	61	61	57	62	68	66	55	52	55	63	71	61	68	67	66	66	68	72	59	63.0
Birchtree	Maximum	86	87	73	79	80	82	85	80	87	91	83	83	85	81	89	87	90	87	86	87	87	92	92	92	87	93	94	96	97	89	95	87,2
	Minimum	67	65	61	53	52	55	69	62	67	72	66	66	69	67	61	65	66	67	63	58	62	65	71	65	65	70	70	70	71	72	63	65.1
Eldon	Maximum	93	73	80	81	86	89	80	90	96	83	85	82	87	85	91	92	83	85	75	87	90	101	97	92	92	95	97	100	100	89	95	88.7
	Minimum	70	68	58	50	55	61	68	68	67	69	68	65	65	64	63	69	75	65	58	57	61	72	65	64	67	68	69	75	75	68	65	65.5
Farmington	Maximum	90	82	72	78	80	83	83	88	90	93	83	85	83	85	90	91	93	77	83	88	89	97	83	93	91	96	94	98	97	84	91	87.4
	Minimum	68	68	63	52	54	56	69	60	69	69	71	68	6[illegible]	63	58	66	70	65	60	55	59	65	68	69	67	68	68	71	70	70	63	64.9
Hollister	Maximum	100	92	85	89	86	92	88	86	96	94	90	80	90	92	92	92	95	92	88	90	92	102	98	101	100	98	96	98	102	96	100	93.3
	Minimum	68	60	65	49	64	55	71	64	68	65	60	65	62	62	66	65	68	65	62	60	62	65	72	68	69	69	66	68	70	70	70	64.9
Koshkonong	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Lebanon §§	Maximum	95	80	82	87	89	91	82	88	98	88	89	87	88	86	94	91	94	84	87	87	87	97	93	97	91	95	97	99	99	87	99	90.6
	Minimum	70	68	59	46	55	56	62	51	55	75	67	65	62	64	64	65	61	65	59	57	60	66	70	67	69	66	67	67	71	70	63	63.4
Mountain Grove §§	Maximum	93	82	78	80	86	84	83	83	89	90	87	81	87	82	88	89	92	82	86	87	84	91	90	97	87	92	93	96	96	88	97	87.7
	Minimum	67	67	64	51	56	59	58	60	61	66	65	68	63	65	66	68	68	65	59	58	62	65	68	70	66	68	70	68	71	72	60	64.3
Neosho	Maximum	91	76	78	81	84	87	87	89	90	91	86	80	87	88	92	92	91	90	88	89	92	95	94	91	95	97	97	97	97	95	98	89.9
	Minimum	67	68	61	50	54	61	66	55	73	68	65	63	60	60	60	66	66	68	60	61	64	72	73	70	71	66	65	67	69	70	66	64.7
Rolla	Maximum	90	78	82	84	85	85	80	85	93	86	88	84	89	86	92	91	94	86	87	87	88	95	88	92	90	96	99	99	99	93	97	89.3
	Minimum	68	68	60	53	57	62	71	70	70	75	68	65	69	66	63	69	71	66	60	60	61	71	68	67	67	70	70	71	72	69	66	66.5
Springfield	Maximum	90	76	77	79	82	87	75	83	92	82	80	76	84	86	87	85	88	78	81	82	84	95	90	92	89	90	91	92	94	86	92	85.3
	Minimum	70	66	61	57	59	62	66	62	71	71	65	64	65	67	67	70	67	67	65	65	68	71	75	75	65	68	74	75	75	71	68	67.5
Southwest Plain.																																	
Amoret	Maximum	82	77	78	81	85	88	82	88	90	84	83	79	84	88	88	88	88	82	83	84	89	95	92	92	95	93	92	96	96	88	98	87.4
	Minimum	66	65	56	50	57	62	62	55	74	63	65	65	60	62	64	67	67	65	59	60	64	72	67	70	64	64	67	72	70	70	60	64.0
Appleton City	Maximum	86	74	79	80	83	86	80	88	92	83	84	81	85	86	..	..	92	82	85	85	88	96	92	96	92	95	94	96	95	88	94	ᵇ87.5
	Minimum	70	69	60	56	58	64	64	58	75	66	68	66	64	66	..	..	66	66	63	61	67	74	69	72	70	68	72	73	73	71	66	ᵇ66.8
Clinton	Maximum	89	76	82	80	85	82	81	90	95	88	85	81	88	90	93	92	93	86	87	86	91	98	93	96	95	98	99	101	99	89	96	89.8
	Minimum	71	69	60	62	68	70	53	57	75	56	69	67	65	66	66	72	73	67	63	61	65	75	68	72	70	70	72	72	75	70	66	67.3
Harrisonville §§	Maximum	87	79	68	81	84	88	80	86	89	80	84	79	86	87	89	87	86	83	86	84	88	94	91	90	90	94	93	95	97	88	84	86.4
	Minimum	68	68	57	58	59	62	60	59	61	65	65	63	62	65	67	69	71	63	62	61	66	67	65	68	68	66	68	72	74	71	66	65.2
Lamar §§	Maximum	95	81	79	81	84	88	83	91	89	83	84	80	86	88	92	90	92	82	86	87	92	95	91	95	94	94	95	99	97	91	99	89.2
	Minimum	63	63	59	51	55	62	64	55	62	76	65	63	61	63	64	70	69	67	62	60	66	72	72	71	71	66	67	70	70	71	63	64.9
Lamonte	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Marshall	Maximum	88	81	80	83	85	87	87	86	95	91	85	82	87	88	89	89	..	84	84	82	88	95	90	90	92	97	..	97	96	87	92	ᵇ88.2
	Minimum	67	66	56	50	54	61	61	56	73	67	67	63	62	64	62	69	..	64	62	61	62	71	69	62	67	66	..	70	69	68	63	ᵇ63.9
Nevada	Maximum	82	78	73	80	83	87	83	88	90	86	81	78	83	85	87	87	88	81	83	84	89	93	92	92	91	91	92	94	94	86	95	86.3
	Minimum	58	65	51	52	48	65	62	55	73	63	66	64	62	63	65	66	70	67	62	61	65	74	75	72	70	65	67	72	72	70	61	64.6
Warrensburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warsaw	Maximum	95	74	80	84	87	90	86	90	96	90	85	80	86	89	92	93	88	83	85	85	89	95	90	94	90	94	95	94	97	97	88	89.1
	Minimum	70	67	58	51	56	63	66	53	75	65	69	66	62	62	64	70	65	66	60	58	63	73	66	69	69	68	68	68	72	68	61	65.0
Northwest Plateau.																																	
Chillicothe §§	Maximum	87	81	76	81	87	86	77	86	89	78	81	79	84	86	88	91	80	82	85	85	89	91	87	87	90	92	92	92	90	86	93	85.7
	Minimum	68	65	55	49	58	61	61	54	67	66	67	61	60	62	54	71	67	61	58	61	67	72	70	65	66	66	70	71	70	69	63	63.7
Grant City	Maximum	88	86	79	83	88	86	87	83	88	79	82	80	84	85	90	90	84	85	85	83	86	94	..	..	..	..	89	89	87	86	92	ᵈ85.9
	Minimum	66	62	54	50	54	68	57	57	70	63	64	57	61	62	65	70	63	57	59	60	67	73	62	65	67	66	69	69	66	61	64	62.8
Kansas City	Maximum	85	80	75	80	85	88	78	85	88	83	79	80	81	87	89	89	79	81	84	84	90	90	90	87	88	91	90	93	95	85	93	85.5
	Minimum	71	67	59	61	64	67	62	65	77	64	62	63	66	68	69	73	68	66	67	68	69	76	72	72	70	69	74	76	72	69	72	68.3
Kidder §§	Maximum	88	86	79	83	87	87	79	86	89	80	80	81	85	89	90	92	81	85	86	85	88	93	91	90	90	97	95	94	92	87	96	87.5
	Minimum	67	64	65	52	57	61	60	56	64	65	65	61	60	62	63	68	70	60	61	62	66	66	68	67	67	66	71	70	67	67	64	63.9
Lexington	Maximum	92	86	82	78	85	88	88	87	87	91	85	82	80	85	87	90	90	81	83	84	83	88	90	90	88	90	93	94	94	96	86	87.2
	Minimum	69	68	58	54	58	67	62	55	75	67	68	63	62	63	65	70	71	61	60	60	66	74	72	66	68	66	71	72	71	70	65	65.8
Maryville	Maximum	83	82	78	79	87	85	82	82	86	78	79	80	83	85	87	89	78	84	84	81	86	90	90	85	85	91	88	90	87	87	92	84.6
	Minimum	67	61	54	55	59	68	57	60	69	60	61	58	60	64	68	71	63	56	59	61	65	74	64	65	67	67	69	69	65	62	66	63.4
Oregon	Maximum	84	81	76	81	85	86	81	83	87	82	83	76	83	87	87	87	82	81	84	83	86	88	86	84	85	90	88	89	88	84	89	84.4
	Minimum	67	64	50	50	62	69	57	59	75	60	60	60	61	65	68	72	64	60	61	61	67	75	70	70	67	67	69	70	66	64	64	61.3
St. Joseph	Maximum	82	83	78	82	87	88	77	86	89	83	76	78	83	86	90	90	78	83	85	85	90	90	90	88	89	93	91	94	91	88	94	86 0
	Minimum	70	64	57	53	64	66	60	62	77	63	61	61	60	65	69	71	67	63	62	63	68	77	72	70	69	67	73	72	70	66	67	66.2
Trenton	Maximum	88	82	75	79	87	83	81	82	91	83	83	78	83	83	87	88	80	79	82	86	88	91	86	86	87	88	91	90	86	83	87	84.6
	Minimum	68	64	55	52	55	64	61	56	72	64	68	54	62	65	66	72	67	61	62	65	68	72	70	68	68	70	72	71	69	67	69	65.1

ᵃ, ᵇ, ᶜ, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

551.05
UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVI. COLUMBIA, MO., AUGUST, 1922. No. 8.

GENERAL SUMMARY.

August, 1922, was mainly warmer and drier than normal. Droughty conditions were more pronounced in the southwestern plain than in other divisions, and the heat was less marked in the Ozark Plateau. Temperatures fluctuated, some times a little above and again a little below normal, during the first 12 days and the last week, but in between these dates the weather was continuously hot.

Rain fell as local showers, and was rather scanty in the east-third of the State from about Pike County south to the southern border, and in the southwestern plain. The more or less general showers on the 1st, 16th, 21st, 22nd, and 30th prevented much damage to vegetation.

The weather of the month was mostly favorable for crop growth and outdoor work; corn showed little harm from dryness, except some late planted, and upland corn was damaged in the southwestern plain by hot winds during last decade, and by lack of moisture and heat along the eastern border. Plowing for fall seeding made good progress.

TEMPERATURE.

The monthly mean temperature for the State as a whole, 70 stations reporting, was 77.5°. The departure from the normal for 67 stations having 10 or more years' record was plus 1.2°. The warmth was variable during the first 10 or 12 days and the last week, the departures from normal being small, but from about the 15th to the 24th, inclusive, the weather was continuously and markedly warm; afternoon temperatures reached the 100° value at about 50 stations, the maximum being 107°, at Hollister on the 24th, the hottest day generally, though a good many stations recorded 100° readings on more than one day.

PRECIPITATION.

The average precipitation for the State, 87 stations reporting, was 2.40 inches. The departure from the normal for 78 stations having 10 or more years' record was minus 1.60 inches, and the largest deficiency for any August since 1913. Moisture was deficient in all divisions but the departure from normal was relatively small in the northwestern plateau; in the southwestern plain the lack of moisture was noticeable, averaging about 2.23 inches less than the usual August rainfall. The deficiency also was quite marked at several of the east-central stations. Nine stations confined to the western border and southern sections, received less than one inch, the least monthly amount being 0.13 inch, at Bolivar. The rainfall was mostly light to moderate local showers, except it was rather more general on the 21st, 22nd, and 30th. The greatest amount in any 24 consecutive hours was 3.87 inches, at Vanduser, Scott County, on the 22nd.

WIND.

The prevailing winds were from the south. The average movement, based upon records of 8 well placed stations equipped with anemometers, was 5,075 miles, or about 6.8 miles an hour. This is about normal. There were a few thunderstorm squalls.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine for the State, based upon the records of six well placed stations with sunshine recorders, was 312, or 74 per cent of the possible and about 3 per cent above normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense.—On the 23rd and 27th, at St. Joseph.
Halos, solar.—2nd, 3rd, 6th, 21st, 26th, 28th, and 31st.
Halos, lunar.—On the 3rd.
Thunderstorms.—1st, 6th, 15th, 16th, 17th, 18th, 20th, 21st, 22nd, 26th, 29th, 30th, and 31st.

OBSERVERS' REMARKS.

Downing.—During night of the 20th two valuable Hereford cows in the herd of Henry Cook & Sons were killed by lightning. Corn crop fine, and practically made.
Gorin.—Some hot days but generally favorable.
Macon.—Big fruit crop assured. Corn in splendid shape.
St. Catherine.—The month has been rather hot; crops are good.
Vanduser.—More melons shipped from this section than ever before.
Bolivar.—Very hot and dry; vegetation badly damaged.
Farmington.—A hot and dry month; crops suffered.
Lebanon.—Corn is about ruined by dry weather.
Lockwood.—A hot and dry month; hot winds damaged corn crop.
Seligman.—Hot winds prevailed 22nd to 25th, and late crops suffered.
Seymour.—Hot winds prevailed on the 24th.
Appleton City.—Month hot and dry; hot winds bad on corn.
Lamonte.—Very dry; corn damaged.
Warsaw.—Quite severe drought prevailed latter half of month.
Avalon.—All crops doing fine.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.98	82	61	278	66	4,381	5.9	44	n.	29
Hannibal	29.98	79	..	...	..	4,864	6.5	30	sw.	6
Kansas City	29.96	76	51	355	84	5,725	7.7	41	ne.	21
St. Joseph	29.92	82	54	342	80	4,459	6.0	28	nw.	25
St. Louis	29.98	69	52	292	69	7,125	9.6	49	sw.	15
Springfield	29.99	75	56	302	72	6,007	8.1	35	e.	18
Cairo, Ill	29.98	80	62	...	..	4,342	5.8	22	n.	8
Keokuk, Iowa	29.99	76	58	311	73	3,694	5.0	24	nw.	18

COMPARATIVE DATA FOR AUGUST.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	74.0	−1.6	110	48	7.25	−3.80	......	0	11	....	....	....
1889	73.5	−2.1	101	52	1.96	−1.49	......	0	14	....	....	....
1890	73.3	−2.3	104	49	4.84	+1.39	......	0	9	....	....	....
1891	73.2	−2.4	108	38	5.34	+1.89	......	0	8	....	....	....
1892	74.3	−1.3	100	40	2.42	−1.03	4.55	0	6	17	8	6
1893	72.8	−2.8	100	40	2.20	−1.25	5.60	0	4	18	10	3
1894	77.0	+1.4	111	39	1.58	−1.87	3.07	0	5	14	16	1
1895	75.3	−0 3	104	48	4.23	+0.78	3.50	0	8	15	11	5
1896	76.6	+1.0	108	41	3.25	−0.20	4.80	0	6	17	10	4
1897	74.1	−1.5	108	41	2.39	−1.06	5.00	0	6	19	9	3
1898	75.8	+0.2	103	44	3.03	−0.42	4.75	0	5	17	10	4
1899	78.8	+3.2	107	49	3.35	−0.10	4.28	0	7	18	10	3
1900	80 3	+4.7	105	52	3.51	+0.06	2.77	0	6	19	9	3
1901	78.4	+2.8	109	47	1.88	−1.57	4.33	0	5	19	9	3
1902	75.0	−0.6	103	47	6.16	+2.71	7.84	0	10	14	11	6
1903	74.4	−1.2	102	43	5.40	−1.95	6.40	0	10	16	11	4
1904	73.7	−1.9	100	43	5.46	+2.01	4.43	0	8	16	10	5
1905	76.4	+0.8	102	48	4.69	+1.24	3.94	0	8	19	7	5
1906	76.6	+1.0	101	40	4.72	+0.27	3.55	0	11	14	10	7
1907	77.3	+1.7	109	47	3.71	+0.26	6.30	0	9	17	8	6
1908	76.4	+0.8	102	46	3.87	+0.42	3.57	0	8	17	9	5
1909	79.5	+3.9	110	40	0.55	−2.90	4.00	0	2	24	6	1
1910	74.7	−0.9	103	40	2.77	−0.68	5.80	0	6	15	9	7
1911	75.4	−0.2	109	41	4.20	+0 55	5.17	0	7	15	8	8
1912	76.2	+0.6	104	41	4.19	−0.74	2.62	0	9	17	8	6
1913	82.8	+6.9	110	41	1.06	−2.51	3.51	0	3	22	7	2
1914	78.0	+1.8	106	49	4.25	+0.60	8.50	0	9	15	9	7
1915	69.8	−6.5	98	37	7.86	+4.15	8.20	0	12	12	9	10
1916	79.2	+2.9	107	41	4.05	+0.49	6.48	0	7	19	7	5
1917	73.3	−2.9	104	38	4.45	+0.94	5.20	0	9	16	8	7
1918	81.8	+5 8	111	45	3.34	−0.27	3.42	0	8	17	9	5
1919	75.7	−0.5	106	44	4.29	+0.49	7.00	0	8	17	9	5
1920	73.1	−3.0	102	43	4.78	+0.89	5.77	0	9	15	8	8
1921	76.8	+0.8	109	48	5.27	+1.63	5.20	0	9	14	10	7
1922	77.5	+1.2	107	46	2.40	−1.60	3.87	0	6	18	8	5
....	.....	....	....	.....	.....	....	......	....	....	....	....	....
....	.....	....	....	.....	.....	....	......	....	....	....	....	....
....	.....	....	....	.....	.....	....	......	....	....	....	....	....

Climatological Data for August, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	77.9	+ 4.5	102	24	52	9	35	1.74	−2.13	0.60	0	6	19	0	12	se.	O. K. Benecke
Clifton Hill	Randolph	731	22	76.8	+ 0.9	100	17	50	9	37	2.81	−0.03	1.15	0	6	20	6	5	......	Dr. A. J. Bradsher
Columbia	Boone	748	31	76.6	+ 0.5	99	24	52	9	32	3.30	+0.26	1.14	0	8	12	13	6	se.	U. S. Weather Bureau
Downing	Schuyler	878	11	75.8	......	99	24	52	9	34	3.13	−0.15	1.32	0	10	20	11	0	s.	E. E. St. Clair
Fayette	Howard	661	38	74.8	− 1.4	98	24	50	9†	37	2.00	−1.08	1.23	0	3	..	.	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	29	81.1	+ 4.8	100	17†	59	27	27	2.14	−1.16	0.75	0	5	16	12	3	sw.	Westminster College
Gorin	Scotland	700	34	....	......	..	..	..	..	..	2.41	−0.63	1.29	0	8	11	13	7	sw.	J. W. Pulliam
Hannibal	Marion	534	37	76.0	+ 1.0	100	24	51	9	37	2.12	−1.26	0.95	0	7	16	9	6	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	77.6	+ 0.9	102	24	55	9†	36	3.32	+0.26	2.00	0	8	25	3	3	s.	Miss Emma Swift
Kirksville	Adair	969	39	75.0	+ 1.2	100	24	53	10	34	5.42	+2.17	3.05	0	6	21	5	5	s.	Prof. J. S. Stokes
Louisiana	Pike	469	40	76.9	+ 2.2	102	24	46	9	36	2.22	−1.38	0.69	0	8	23	4	4	w.	J. T. Farrell
Macon	Macon	875	28	76.4	− 0.3	99	20	50	9	40	3.84	+0.94	2.00	0	8	19	6	6	se.	W. C. Brown
Mexico	Audrain	800	43	76.7	+ 0.6	101	17	50	9	40	3.56	+0.42	1.72	0	9	22	3	6	se.	Mrs. Abbie Snoddy
Palmyra	Marion	652	22	75.6	− 1.1	102	24	51	26	35	1.73	−1.95	0.78	0	5	17	7	7	se.	W. B. Markell
St. Catherine	Linn	800	12	75.4	+ 1.3	97	24	54	9	28	3.76	......	1.92	0	7	18	10	3	s.	L. D. Baker
St. Charles ††	St. Charles	456	43	79.1	+ 2.6	104	24	55	27	36	1.70	−1.74	0.67	0	4	15	9	7	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	79.1	+ 1.8	100	24	59	9	24	1.79	−0.87	0.82	0	7	13	13	5	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	78.3	+ 1.1	101	24	58	9	27	1.14	−4.57	0.57	0	5	15	10	6	se.	St. Louis University
Shelbina	Shelby	779	28	....	......	..	..	..	..	..	2.44	−0.20	0.92	0	2	..	..	..	......	S. G. Parsons
Steffenville	Lewis	650	28	78.5	+ 2.0	103	24	52	26	42	1.75	−1.84	0.80	0	6	16	13	2	s.	Frank Hall
Unionville	Putnam	1,062	28	74.4	− 0.9	98	24	50	9	36	5.10	+1.12	2.10	0	8	14	10	7	s.	Geo. W. Davis
Warrenton	Warren	816	31	77.8	+ 1.4	103	24	52	9	38	1.74	−1.35	0.66	0	5	11	15	5	nw.	Prof. A. W. Eberling
Keokuk, Iowa	Lee, Ia.	574	49	75.8	+ 1.2	99	24	55	9	29	3.37	+0.13	2.08	0	9	12	12	7	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	76.9	+ 1.2	104	24	46	9	42	2.72	−0.68	3.05	0	7	17	9	5	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	82.9	+ 3 2	105	20	59	11	35	0.91	−2.66	0.68	0	3	25	5	1	e.	H. E. Averill
Doniphan	Ripley	344	17	77.7	+ 0.3	99	24	54	10†	36	3.84	−0.47	1.35	0	7	15	9	7	s.	W. W. Martin
Jackson	Cape Girardeau	428	31	76.8	+ 0.6	99	18	52	10†	36	3.87	+0.26	2.32	0	6	9	8	4	s.	John G. Putz
Marble Hill	Bollinger	470	27	76.8	− 0.2	99	6	51	10†	36	2.64	−0.86	1.42	0	4	17	13	1	s.	R. A. DeWitt
Parma	New Madrid	281	..	....	......	..	..	..	..	..	5.21	......	3.40	0	4	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	11	....	......	..	..	..	..	..	2.18	−2.36	1.70	0	2	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	339	17	79.4	+ 1.4	99	2	56	28	34	2.33	−1.94	1.50	0	3	17^{a}	6^{a}	7^{a}	e.	Rev. John H. Gallaher.
Vanduser	Scott	304	..	....	......	..	..	..	..	..	6 22	......	3.87	0	6	24	1	6	.....	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	77.6	+ 0.6	94	18	60	9	25	0.98	−1.95	0.95	0	4	13	7	11	n.	U. S. Weather Bureau
Section means and	extremes	....	..	78.5	+ 1.0	105	20	51	10†	36	3.13	−1.43	3.87	0	4	17	7	7	s.	
Ozark Plateau.																				
Arcadia	Iron	926	43	74.7	+ 0.2	98	14	49	10	41	3.36	−0.36	2.50	0	5	13	11	7	s	Arcadia College
Birchtree	Shannon	1,000	28	76.2^{a}	+ 0.3	100	23	55	9	34	2.02	−2.37	1.02	0	5	18^{a}	9^{a}	3^{a}	s.	V. H. Kirkendall
Bolivar	Polk	1,071	32	77.8	+ 0.8	103	24	52	27	34	0.13	−3.55	0.07	0	3	24	3	14	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	76.6	− 0.9	106	24	49	9	44	1.24	−3.03	0.41	0	6	22	3	6	sw.	H. E. Dean
Eldon	Miller	934	22	78.1	+ 1.7	101	24	55	27†	38	2.12	−1.86	0.87	0	6	7	18	6	s.	E. H. Shepherd
Farmington	St. Francois	918	24	76.5	+ 1.7	100	24	53	10†	34	3.10	−0.28	1.42	0	6	17	9	5	ne.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	76.0	− 0.1	101	24	50	10	42	4.06	−0.35	2.00	0	6	19	8	4	s.	A. C. Leach
Goodland	Iron	1,000	28	75.1	+ 0.6	100	8	49	9†	42	5.01	+0.98	2.15	0	8	15	12	4	s.	F. M Adams
Greenville	Wayne	381	..	75.6	......	98	6†	49	9†	39	4.89	......	3.27	0	8	21	2	8	nw.	J. J. Amen.
Hollister	Taney	735	18	80.4	+ 2.5	107	23†	52	28†	48	1.85	−2.12	1.50	0	2	18	10	3	s.	W. P. Chapmann
Houston	Texas	1,280	29	75.8	− 1.2	103	24	48	28	42	0.81	−2.95	0.23	0	5	19	10	2	ne.	Walter T. Beard
Koshkonong ††	Oregon	958	20	78.6	+ 0.9	103	24	58	9†	31	3.20	−1.25	1.20	0	5	13^{a}	11^{a}	6^{a}	se.	R. M. Hitt
Lebanon	Laclede	1,265	34	76.8	+ 0.5	104	24	49	27	37	1 21	−2.32	0.35	0	9	23	5	3	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	76.6	− 0.6	98	24	54	27	31	2.54	−1.63	1.79	0	4	22^{a}	5^{a}	3^{a}	ne.	C. S. Crow
Mountain Grove	Wright	1,463	25	76.2	+ 1.1	105	24	50	27	35	1.00	−3.40	0.21	0	8	13	12	6	s.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	78.0	+ 1.1	102	24	49	27	39	1.31	−2 78	0.74	0	4	25	4	2	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	78.0	+ 2.2	102	24	56	9	35	4.92	+0.84	1.50	0	8	18	9	4	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	15	77.8	+ 2.2	101	24	54	10†	36	1.31	−2.68	0.60	0	5	17	11	3	e.	Floyd E. Fawver
Seymour	Webster	1,642	16	75.0	0.0	102	24	47	27	36	1.22	−2.62	0.42	0	9	18	10	3	se.	Ira H. Hailey
Springfield	Greene	1,350	42	77.7	+ 2.2	100	24	58	27	26	2.47	−1.84	2.11	0	7	15	13	3	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	77.0	+ 0.8	107	23†	47	27	48	2.25	−1.92	3.27	0	6	18	9	4	s.	
Southwest Plain.																				
Amoret	Bates	831	15	78.4	+ 2.0	105	24	51	27	36	0.90	−3.11	0.47	0	5	25	6	0	sw.	Darby Fruit Farm
Appleton City	St. Clair	853	29	79.4	+ 1.6	104	24	55	27	32	0.81	−2.93	0.49	0	6	16	11	4	sw.	W. G. Bigelow
Clinton	Henry	765	34	80.4	+ 3.6	105	24	54	27	37	1.18	−2.18	0.70	0	4	27	3	1	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	46	77.6	+ 1.8	104	24	54	27	35	0.93	−3.22	0.43	0	7	9	16	6	se.	John H. Patterson
Lamar	Barton	980	40	78.4	+ 0.9	103	22	53	27	39	2.67	−1.51	1.65	0	4	24	4	3	se.	Joe W. Springer
Lamonte	Pettis	867	35	79.5	+ 2.8	105	24	52	27	38	1.80	−1.92	0.38	0	7	23	6	2	se.	J. E. Wheeler
Marshall	Saline	779	32	79.0^{b}	+ 3.4	100	24	53	9	38	2.44	−1.22	0.90	0	4	18^{a}	9^{a}	3^{a}	ne.	Dr. W. H. Black
Nevada	Vernon	862	30	77.2	+ 0.3	102	24	52	27	36	1.83	−1.68	0.60	0	6	17	10	4	s.	George A. Kaupp
Warsaw	Benton	687	26	78.0	+ 0.6	103	24	51	27	41	1.22	−3.07	0.40	0	7	14^{a}	16^{a}	0^{a}	se.	J. R. Smith, M. D.
Section means and	extremes	.....	..	78.7	+ 1.9	105	24	51	27	41	1.53	−2.32	1.65	0	6	19	9	3	se.	
Northwest Plateau.																				
Avalon	Livingston	730	24	77.2	+ 0.6	100	17	56	9†	32	3.10	−0.43	1.60	0	4	18^{c}	6^{c}	4^{c}	sw.	F. G. Ashbaugh
Bethany	Harrison	916	30	76.5^{b}	+ 1.8	105	24	52	9†	43	3.29	−0.70	1.36	0	7	15^{b}	9^{b}	5^{b}	sw.	M. H. Moulton
Chillicothe	Livingston	779	13	75.3	− 0.6	98	24	51	9†	42	3.32	−1.53	1.06	0	10	17	9	5	e.	Wm. J. Olenhouse
Conception	Nodaway	980	37	77.2	+ 3.1	103	24	55	27	31	1.80	−1.87	1.05	0	6	14	15	2	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	9	75.8^{c}	......	103	24	47	27	35	0.39	−3.37	0.27	0	3	25	3	3	e.	Fred L. Stiff
Grant City	Worth	1,134	30	75.4	+ 0.4	98	24	52	27	36	4.16	+0.46	1.66	0	5	21	10	0	s.	B. F. Locke
Kansas City	Jackson	963	32	78.6	+ 2.8	102	24	60	27	27	0.81	−3.94	0.33	0	5	16	13	2	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	34	76.7	+ 1.2	101	24	53	27	34	2.09	−1.75	0.93	0	8	19	4	8	se.	Linn Terry
Lexington	Lafayette	688	39	77.5	+ 1.5	102	24	54	9	35	0.75	−2.38	0.28	0	6	17	9	5	s.	Edwin G. Loomis
Liberty	Clay	859	31	78.3	+ 1.7	104	24	52	27	38	2.24	−1.51	1.86	0	5	17	12	2	se.	James H. Harris
Maryville	Nodaway	1,109	27	75.6	+ 1.9	99	24	53	27†	32	2.30	−1.76	1.45	0	9	27	0	4	s.	J. R. Brink
Oregon	Holt	1,048	66	76.0	+ 0.9	95	24	55	27	27	1.89	−2.20	1.35	0	4	20	10	1	se.	Tom Curry
St. Joseph	Buchanan	967	49	77.9	+ 0.5	102	24	55	27	33	1.53	−2.13	0.99	0	7	19	8	4	se.	U. S. Weather Bureau
Tarkio	Atchison	916	28	75.2	− 0.7	101	24	53	8†	35	3.10	−1.04	1.69	0	4	19	9	3	se.	Albert Volker
Trenton	Grundy	822	26	75.4^{a}	+ 0.3	94	24	54	29	30	3.10	−0.50	1.68	0	9	19^{a}	7^{a}	4^{a}	s.	W. H. Estes
Section means and	extremes	.....	..	76.6	+ 1.1	105	24	47	27	43	2.26	−1.64	1.86	0	6	19	8	4	se.	
State means and	extremes	.....	..	77.5	+ 1.2	107	23†	46	9	48	2.40	−1.60	3.87	0	6	18	8	5	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean. Anderson: of Gano. Salem, R. F. D. No. 5.

Daily Precipitation for August, 1922.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri							1.53					.17				.05					.30	.13	.15				T.			.15	.50	2.98
Brunswick‖	Grand												.30									.06	.35	.15							.28	.60	1.74
Clifton Hill	Chariton						T.				T.											.28	.98				.03		.04	.33	1.15		2.81
Columbia***	Missouri	.08					1.14					.07				T			T.			.17	.91				T.		.01	.28	.64	T.	3.30
Downing	Mississippi								.05	.05	.07	.05					.14					.40		1.32			.05	.04			.96		3.13
Fayette‖	Missouri																					.30	.47				T.				1.23		2.00
Fulton	do							.25					.05										.47							T.	.62	.75	2.14
Gorin							.02			.03						.11	T.					.27	.14	1.29			.01				.54		2.41
Hannibal***	Mississippi											T.	.02			T.			.38			.44	.51				.08			T	.62	.07	2.12
Hermann‖	Missouri		T.					.03					T.	.05			1.05			.04			1.10	.25							.20	.95	3.67
Jefferson City‖	do		.10					.16					.05				.15			2.00			.50	.06								.30	3.32
Kirksville	Mississippi						.41					.18										.74	.94				.10				3.05		5.42
Louisiana	do							.10					.12			T.		.31				.41	.69				.05				.26	.28	2.22
Macon ‖	Chariton											T.	.14				.04					.21	1.05	T.				.02		.10	2.00	.28	3.84
Mexico ‖	Mississippi		.10					.32					.04						.20			.36	1.72	.10							.44	.28	3.56
Pacific‖	Meramec									T.							.10						.48	.07							.10	.05	0.80
Palmyra‖	Mississippi												.03			T.	.20		.04				.78								.68	T.	1.73
St. Catherine	Grand										.11	.36	T.						T.			.55	.52				.10		.20		1.92		3.76
St. Charles	Missouri															.45						.12	.67									.46	1.70
St Louis (1)***	Mississippi						T.									.82			.09			.33	.32	.06							.06	.11	1.79
St. Louis (2)	do															.11						.26	.57	T.							.05	.15	1.14
Shelbina	do																					.62	.90								.92		2.44
Steffenville	do										T.	T.				.20	T.					.35	.15				.10				.80	.15	1.75
Union‖	Meramec																.77		.06				.73	.21							.12	.30	2.19
Unionville	Chariton						T.				.40	.20	.60								.40	.90					T.	.20	.30		2.10		5.10
Valley Park‖	Meramec																T			.11			1.85	.08							.09	T.	2.13
Warrenton ‖	Mississippi							T.					T.	.01			T.	T.	T.	.27			.62	T.							.18	.66	1.74
Keokuk, Ia.***	do							.05				.09	.08			T.			2.08			.27	.51	T.			.04			T.	.15	.10	3.37
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi																	.15					1.80	.80							.02	.05	2.82
Caruthersville	do							T.							T.	T.	.03						.68	.20			T.				T.		0.91
Doniphan	Black							.12								1.30	.10		1.35				.70				.02					.25	3.84
Jackson	Mississippi															.02	1.00					.23	2.32	.07							.23		3.87
Marble Hill	do																1.42						.90								.20	.12	2.64
New Madrid‖	do						.10		.01								.02	.32					.15	1.65	.01			.05					2.31
Parma	do							.10									.11						3.40	1.60									5.21
Patton (near)	do																					.48	1.70										2.18
Poplar Bluff	Black																.20					.63	1.50										2.33
Vanduser	Mississippi							.05								1.75	.12					.18	3.87	.25									6.22
Cairo, Ill.***	do							T.							T.	T.	.02					.18	.77	.01			T.				T.		0.98
Ozark Plateau.																																	
Arcadia ‖	St. Francis									T.			T.				.09		T.	.05			2.50	.66				T.			T.	.06	3.36
Birchtree	Gasconade														.05	.33	.12						.50									1.02	2.02
Bolivar	Black											.07							.04	T.		T					.02						0.13
Dean	Osage	.41						.03							.08	.28	.27									T.	.17						1.24
Eldon	Neosho							.06					.16					.16	.87			.53									.34		2.12
Farmington	Osage															.05	T.	T.	.33			1.42	.98				T				.12	.20	3.10
Gano	Meramec												T.			T.	T.		.08			.92	.95	.06			T.				.05	2.00	4.06
Goodland	Black					.53										.27			.75			.85	2 15	.10							.04	.32	5.01
Greenville ‖	St. Francis														.04	1.10	.06		T.			.07	3.27	.08			.02					.25	4.89
Hollister	Black	1.50						.35																									1.85
Houston	White	.14														T.	.10		T.			.20	.23				T.					.14	0.81
Jerome ‖	Gasconade	T.	.05														.51	.16					.81	.51								.38	2.42
Koshkonong	Black	T.						.80								.59			.53				.08									1.20	3.20
Lebanon ‖	Osage	.19	.06										.18				.05	.35					.08	.11				.08				.11	1.21
Lockwood	do	1.79											T.			.10	.30		.35												T.		2.54
Mountain Grove‖	White	.05	.21										.21					.05		.20			.09					.04				.15	1.00
Neosho	Neosho	.48				.03		.74				T.			T.		T.									T.	T.				.06		1.31
Rolla	Meramec	.06										.12				.56	.88		08			1.24	.48			T.	T				1.50		4.92
Seligman	Barry	.60						.38				T.	.08			.20										T.	.05				T.		1.31
Seymour	White	.38										.09	.07		.02		.09		.42				.05				.05				.05		1.22
Springfield***	do	2.11						.02				.02	.04		T.				.23			.02				T.	T.			T.	.03		2.47
Steelville‖	Meramec																						2.50	.84								1.80	5.14
Tuscumbia ‖	Osage							.05					.15				.19		.06	.29			1.02	.19			.12				.01	.24	2.32
Southwest Plain.																																	
Amoret	Osage	.47					.02										T.		.33				.03				.05				T.	T.	0.90
Appleton City	do	.49				T.	.03					.03	.10				T.		T.			T.	T.				.12			T.	.04		0.81
Clinton	do	.17										.14					.70						.17										1.18
Harrisonville‖	do	.31						.43				T.	.02					T.					.10	.02			T.	.02				.03	0.93
Lamar ‖	Neosho	1.65					.56											.35													T.	.11	2.67
Lamonte	Missouri	.33					.13					.38										.30	.30				.01				.35		1.80
Marshall	do											.60				T.	T.					.64	.30				T.				.90	T.	2.44
Nevada	Osage	.50				.59	.02					.02							.60											T.	.10	T.	1.83
Osceola‖	do	.20											.20																		.25	.13	0.78
Warsaw	Osage	.40					.05					.20				.05						.35	T.				.10				.07		1.22
Waverly ‖	Missouri							.66				T.	.60									T.	.60	.09						T.	.28	.22	2.45
Northwest Plateau.																																	
Avalon	Grand											.40										.65	.45								1.60	T.	3.10
Bethany	do						T.				.20								.65			.82	.05				.14		.07		1.36		3.29
Chillicothe ‖	do.							.02			T.	.02	.39							T.		.42	.61	.04			.02	.11		1.06	T.	.63	3.32
Conception	Missouri						.18	T.			.10	.21							.11			1.05					T.		T.		.15		1.80
Edgerton	Grand											.05										.27					T.		T.		.07		0.39
Grant City	do						.18				1.00								.07			1.25									1.66		4.16
Kansas City***	Missouri	T.					.33					.03				T.	T.	T.				.10	.18				T.				.17	T.	0.81
Kidder ‖	Grand										.04	.17	.11									.46	93	.02							.21	.15	2.09
Lexington	Missouri												.07									.05	.28					.05			.12	.18	0.75
Liberty	do						.02					.07					1.86					.23					T.				.06		2.24
Maryville	do						.43	.04			.10		.07									1.45	.05					.06		.01		.09	2.30
Oregon	do						.40												.04			1.35									.10		1.89
St. Joseph***	do				T.		.24					.03				.01			.15			.91	.08				T.				.11	T.	1.53
Tarkio	do						.80					.04							57			1.69											3.10
Trenton	Grand						.03			T.	.15	.39							.09			.57	.03				.04		.12		1.68		3.10

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for August, 1922.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	94	90	88	87	93	89	85	83	85	88	71	89	93	95	94	97	98	92	97	98	86	94	97	102	86	79	88	89	95	79	95	90.2
	Minimum	70	72	65	63	68	70	70	59	52	56	63	66	66	67	68	69	71	73	66	63	69	70	73	71	64	58	54	58	64	68	67	65.6
Columbia	Maximum	90	88	87	88	91	92	82	79	80	86	75	84	91	92	89	94	95	94	93	96	82	89	91	99	82	80	81	84	93	73	92	87.5
	Minimum	72	69	65	62	67	69	66	61	52	61	66	66	61	67	70	70	70	71	68	64	70	70	73	71	62	58	54	59	65	68	70	65 8
Fayette §§	Maximum	89	89	89	85	89	91	80	81	82	86	74	83	87	92	89	93	96	93	95	95	82	88	92	98	81	78	81	84	90	70	90	86.8
	Minimum	70	69	62	58	63	67	66	58	50	57	61	62	61	63	66	68	68	68	65	58	68	69	71	68	64	55	50	52	61	66	66	62.9
Hannibal	Maximum	89	82	87	90	89	92	84	77	77	85	78	84	91	92	87	93	96	88	87	97	80	88	89	100	82	75	80	86	88	80	84	86.4
	Minimum	70	68	64	65	67	71	69	61	51	57	65	66	64	67	71	69	71	71	65	60	66	69	74	72	63	56	56	57	67	68	69	65.5
Jefferson City §§	Maximum	92	91	90	92	95	96	88	82	86	92	80	86	92	97	88	98	98	96	94	98	82	85	96	102	82	84	82	88	98	72	92	90.1
	Minimum	69	69	66	64	65	69	69	63	55	58	63	62	63	63	67	68	70	71	67	64	68	69	69	71	72	61	55	56	62	65	64	65.1
Kirksville	Maximum	91	83	87	89	90	87	80	77	80	81	76	85	90	92	91	91	95	91	89	95	88	88	91	100	88	70	83	88	88	75	88	86 7
	Minimum	65	66	61	65	63	59	62	56	62	53	64	64	65	65	71	62	68	71	59	61	68	70	72	72	59	54	55	58	63	65	67	63.4
Louisiana	Maximum	98	86	87	90	93	98	96	88	82	85	86	81	93	96	95	92	98	90	90	96	95	86	92	102	92	85	80	91	91	87	85	90.5
	Minimum	65	74	60	60	60	65	70	64	46	50	63	63	62	64	68	65	66	69	63	55	65	70	68	68	68	49	52	68	68	68	67	63.3
Macon §§	Maximum	94	87	90	91	93	96	85	80	85	86	77	89	95	98	94	97	97	90	93	99	85	90	92	98	84	74	85	84	93	76	93	89.4
	Minimum	68	66	61	64	64	68	67	56	50	55	65	64	64	65	70	66	69	70	61	59	67	67	71	70	61	56	53	57	64	65	65	63.5
Mexico §§	Maximum	92	87	88	92	95	95	87	81	82	92	82	89	94	96	91	98	101	92	94	99	83	84	92	100	83	82	82	85	93	74	92	89.6
	Minimum	69	70	61	61	64	68	69	60	50	57	62	63	63	65	69	67	70	71	65	59	67	67	69	69	65	54	52	58	63	66	66	63.8
St. Catherine	Maximum	90	86	87	89	89	87	85	78	80	79	77	83	88	91	88	94	96	87	89	92	82	88	88	97	87	76	80	80	85	80	87	86.0
	Minimum	68	67	62	63	66	68	67	55	54	58	63	64	67	67	71	67	70	74	64	64	68	71	73	73	61	56	54	59	65	65	68	64.9
St. Louis (1)	Maximum	93	88	89	92	91	95	90	81	81	84	82	87	92	91	90	92	96	95	93	94	82	80	90	100	84	80	82	85	92	81	81	88.2
	Minimum	76	74	70	74	70	74	71	65	59	64	64	70	74	74	70	73	75	75	72	71	67	70	70	76	70	66	62	65	71	68	69	70.0
Unionville	Maximum	92	88	86	88	90	86	84	77	80	78	74	85	88	90	92	96	95	88	90	92	85	89	91	98	92	72	83	83	85	80	88	86.6
	Minimum	64	60	60	65	62	68	65	54	50	55	63	65	65	64	66	64	70	68	57	66	65	68	70	70	56	54	52	56	60	64	65	62.3
Warrenton §§	Maximum	96	93	92	95	96	98	90	84	84	92	82	89	95	95	93	97	97	94	95	99	79	83	92	103	85	81	84	96	96	78	92	91.1
	Minimum	71	70	63	66	66	70	69	65	52	59	62	66	65	66	71	66	70	72	67	63	70	66	70	65	72	59	56	57	59	56	55	64.6
Southeast Lowlands.																																	
Caruthersville	Maximum	93	102	99	100	100	102	100	95	94	95	91	98	100	96	98	99	102	102	103	105	100	83	92	102	99	86	92	95	99	90	95	97 0
	Minimum	70	70	73	67	68	74	72	70	62	62	59	64	70	73	74	76	69	71	73	73	68	68	72	76	78	66	61	60	62	61	72	68.8
Doniphan	Maximum	89	98	93	95	98	98	98	86	89	90	84	94	94	89	91	88	94	96	95	92	90	85	94	99	95	82	83	87	93	88	87	91.4
	Minimum	65	63	63	60	63	66	69	65	56	54	54	62	64	64	69	68	68	67	68	68	60	68	70	75	77	60	55	54	57	63	68	64.0
Jackson	Maximum	90	91	93	96	95	98	98	88	85	88	87	92	95	90	91	91	94	99	97	97	88	77	91	98	91	82	81	87	93	83	81	90 6
	Minimum	66	64	65	62	65	64	68	63	54	52	52	56	61	62	68	70	66	66	68	61	61	67	69	75	77	58	55	54	57	61	68	63.1
Poplar Bluff	Maximum	94	99	97	96	95	97	96	85	91	91	87	93	96	95	93	88	94	98	97	96	95	85	93	98	92	86	84	88	93	86	82	92.3
	Minimum	68	66	68	66	66	70	72	66	58	58	58	65	66	68	71	69	68	68	70	69	63	68	70	75	78	65	64	56	59	65	68	66.5
Cairo, Ill.	Maximum	87	92	88	89	90	93	93	79	81	82	82	88	90	87	84	87	92	94	93	90	87	74	86	94	91	72	81	83	88	74	83	86.3
	Minimum	72	71	71	71	72	74	73	69	60	63	61	64	70	72	72	72	68	72	73	69	70	69	72	76	72	65	62	63	63	69	69	69.0
Ozark Plateau.																																	
Arcadia §§	Maximum	93	92	91	94	92	96	94	82	85	87	78	89	90	98	83	87	93	93	95	95	82	76	96	97	85	76	82	84	91	74	83	88.2
	Minimum	65	66	61	59	62	63	66	61	50	49	52	59	59	57	64	63	62	61	65	58	59	66	67	71	76	58	52	51	59	68	64	61.2
Birchtree	Maximum	76	84	91	91	94	93	83	87	89	..	84	89	90	88	90	91	93	92	94	94	88	80	100	97	93	81	84	91	80	87	81	[a]88.5
	Minimum	66	66	63	63	66	60	60	56	55	..	57	62	65	65	68	68	64	68	67	67	61	66	69	69	70	58	63	67	62	62	60	[a]63.9
Eldon	Maximum	95	92	91	92	90	95	88	83	86	94	80	88	92	96	90	96	100	93	95	98	87	87	98	101	89	76	85	88	92	78	97	90.7
	Minimum	75	75	68	62	65	68	62	62	56	56	62	62	62	62	70	67	70	75	68	62	69	69	72	70	76	60	55	55	66	65	65	65.5
Farmington	Maximum	89	91	89	91	93	98	93	79	82	86	82	91	93	96	88	90	96	96	94	94	80	79	93	100	87	78	80	87	91	80	84	88.7
	Minimum	67	69	64	63	67	66	66	63	54	53	57	63	63	62	69	65	70	68	68	62	63	67	70	72	77	60	55	53	63	68	66	64,3
Hollister	Maximum	98	96	90	95	96	98	92	90	90	90	86	90	94	88	92	98	101	100	102	102	102	100	107	107	102	100	94	95	100	96	104	96.6
	Minimum	65	62	62	65	62	64	68	64	62	56	60	65	60	68	65	68	68	70	72	68	70	70	71	71	80	60	54	52	52	60	60	64.3
Koshkonong	Maximum	89	95	91	94	94	96	97	92	89	88	85	90	93	88	91	92	94	95	92	94	90	83	96	103	92	76	84	89	93	82	89	90.8
	Minimum	70	68	65	68	67	66	70	66	58	58	60	64	66	67	68	68	68	70	70	68	68	69	70	74	76	63	58	58	63	66	67	66.4
Lebanon §§	Maximum	92	92	90	91	93	94	86	83	87	88	81	81	94	92	92	94	98	96	96	98	91	89	103	104	84	79	81	90	91	76	94	90.3
	Minimum	63	65	63	61	61	64	66	58	50	53	57	61	61	60	60	64	66	68	68	64	68	71	69	71	76	63	49	63	63	68	68	63.3
Mountain Grove §§	Maximum	89	92	88	89	94	95	90	82	87	89	82	80	88	82	90	90	96	97	95	92	89	81	101	105	87	81	85	82	94	81	90	89.1
	Minimum	66	63	59	61	60	65	66	59	53	54	60	60	61	65	67	66	67	66	65	67	68	68	67	70	73	63	50	57	61	67	65	63.2
Neosho	Maximum	98	94	92	92	91	92	90	82	84	90	92	88	91	91	91	90	93	95	96	98	97	102	100	102	101	87	86	90	94	91	99	92.9
	Minimum	67	64	65	61	67	62	65	58	53	52	62	62	58	59	64	66	65	65	67	65	70	75	73	72	73	58	49	51	58	62	71	63.2
Rolla	Maximum	85	91	89	91	95	94	88	86	88	93	85	84	94	92	89	94	92	91	95	95	87	82	96	102	90	80	84	86	94	87	91	90.0
	Minimum	65	69	65	64	70	72	68	64	56	58	62	62	66	63	71	68	70	71	69	65	66	68	72	72	71	62	57	57	65	69	66	65.9
Springfield	Maximum	84	89	84	85	86	88	83	74	81	84	76	82	85	85	87	86	91	92	91	92	94	88	97	100	85	75	81	88	90	78	95	86.3
	Minimum	66	72	65	67	71	72	66	60	59	61	66	63	68	67	69	68	69	71	70	70	74	75	76	76	69	60	58	62	67	70	71	67.7
Southwest Plain.																																	
Amoret	Maximum	91	92	88	88	86	91	88	82	85	90	82	88	91	91	91	93	97	98	94	97	100	101	103	105	92	85	86	92	96	86	99	91.9
	Minimum	67	66	62	62	66	68	65	56	52	54	65	66	64	62	68	66	65	68	66	63	72	78	70	79	68	63	51	59	68	64	70	64.9
Appleton City	Maximum	90	93	86	86	86	90	87	80	85	89	81	87	91	92	90	94	96	95	94	99	96	97	103	104	96	83	87	91	95	91	99	91.4
	Minimum	70	70	65	66	70	70	69	60	57	58	68	64	67	68	70	69	71	72	69	69	71	79	72	74	72	63	55	59	68	68	70	67.5
Clinton	Maximum	94	96	89	92	89	92	94	84	87	93	80	90	94	94	94	95	98	96	98	101	95	96	104	105	89	84	89	95	93	83	100	93.0
	Minimum	70	72	65	66	70	68	70	62	56	59	67	67	68	57	71	70	71	74	69	68	70	75	76	76	71	64	54	60	71	68	73	67.7
Harrisonville §§	Maximum	92	93	86	83	86	91	86	81	84	89	74	89	90	91	89	92	91	92	89	92	91	96	98	104	87	82	87	93	92	79	98	89.4
	Minimum	68	69	64	65	68	71	68	58	56	59	62	65	66	68	68	68	69	70	66	69	74	70	70	72	65	62	54	58	61	70	67	65.8
Lamar §§	Maximum	90	93	88	91	82	91	84	81	86	91	76	87	92	91	91	93	96	99	97	100	99	103	102	102	91	87	90	94	97	83	99	91.8
	Minimum	67	66	64	63	70	66	66	59	56	54	65	65	62	63	65	66	66	68	68	68	72	70	68	72	75	62	53	55	62	66	71	64.9
Lamonte	Maximum	93	91	88	90	93	94	95	83	87	93	81	95	96	96	96	97	99	97	97	101	92	95	99	105	87	84	89	91	98	80	101	93.0
	Minimum	68	69	62	63	65	68	68	60	56	61	64	65	72	72	68	69	69	72	67	63	69	71	71	71	66	64	52	59	63	69	70	66.0
Marshall	Maximum	93	90	89	87	93	94	86	83	89	..	..	85	94	95	94	95	98	95	95	97	85	94	95	100	95	85	87	87	98	87	97	[b]91.8
	Minimum	71	69	65	67	67	69	66	59	53	..	..	69	67	65	66	68	69	71	66	69	69	70	74	76	64	60	64	55	60	68	67	[b]66.3
Nevada	Maximum	87	90	85	88	85	90	85	79	82	87	76	85	89	90	92	94	95	96	92	94	96	100	99	102	85	83	85	90	93	84	98	89.5
	Minimum	67	66	62	63	68	67	67	58	55	54	67	66	65	56	62	58	63	61	76	67	74	78	72	77	67	62	52	58	67	68	72	65.0
Warrensburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warsaw	Maximum	94	92	89	89	90	92	85	80	83	90	80	87	92	93	91	92	97	95	96	99	91	93	100	103	95	84	86	94	94	83	100	91.4
	Minimum	65	64	63	61	66	62	69	61	52	56	61	65	63	62	66	68	68	69	68	62	69	75	73	69	72	61	51	53	65	70	73	64.6
Northwest Plateau.																																	
Chillicothe §§	Maximum	93	86	86	86	91	91	80	77	82	87	79	87	91	93	91	94	96	87	92	96	84	92	91	98	82	71	88	87	85	76	91	87.4
	Minimum	69	67	64	62	65	69	68	56	51	55	63	64	66	65	68	68	69	70	63	54	66	67	72	69	60	55	51	54	64	62	64	63.2
Grant City	Maximum	92	86	84	84	90	90	86	78	81	85	79	85	87	89	88	90	94	89	88	93	88	89	90	98	91	78	82	81	86	85	86	86.8
	Minimum	70	67	65	64	68	70	65	55	55	63	65	63	67	67	64	68	69	68	63	61	65	72	69	70	55	57	52	64	60	63	64	64.1
Kansas City	Maximum	90	89	82	83	87	89	81	76	83	88	75	87	90	90	90	89	93	89	88	95	93	97	96	102	87	77	85	92	93	79	93	88.0
	Minimum	71	73	66	69	72	73	69	61	61	63	69	67	71	72	72	73	75	71	69	72	67	75	72	77	65	64	60	65	74	68	71	69.3
Kidder §§	Maximum	96	89	90	89	90	92	82	80	84	89	72	89	91	91	94	91	98	93	93	96	85	97	95	101	87	76	87	89	93	79	90	89.4
	Minimum	68	67	63	63	67	69	68	55	55	58	62	63	64	67	68	68	70	70	73	62	62	66	70	70	59	58	53	58	62	61	64	64.0
Lexington	Maximum	92	89	84	85	89	90	83	79	82	88	77	89	90	91	91	92	95	92	92	96	85	96	95	102	84	79	86	90	94	83	95	88.9
	Minimum	73	72	64	63	68	70	70	59	54	62	66	65	69	65	66	70	69	72	67	61	69	71	71	69	64	61	55	60	69	70	65	66.1
Maryville	Maximum	93	88	86	83	90	89	80	78	82	87	80	87	88	90	88	91	96	80	89	93	88	90	97	99	88	72	83	88	86	83	85	87.0
	Minimum	70	67	64	64	69	68	65	55	57	63	67	63	67	67	68	68	69	70	63	65	66	72	65	70	56	59	53	61	62	53	64	64.2
Oregon	Maximum	90	89	84	82	86	86	83	76	81	86	79	85	84	86	85	89	94	88	88	92	84	89	96	95	86	72	81	88	88	80	85	85.5
	Minimum	70	70	66	67	69	71	69	56	58	63	70	66	68	67	68	69	72	72	65	68	66	73	66	72	59	67	55	64	65	67	66	66.6
St. Joseph	Maximum	93	90	85	83	90	90	77	79	85	90	79	90	91	93	89	93	96	90	92	98	86	94	95	102	84	73	86	93	92	82	91	88.7
	Minimum	73	70	66	66	69	71	64	59	60	64	70	67	70	70	70	69	73	70	68	65	67	73	69	73	60	59	55	66	68	68	67	67.1
Trenton	Maximum	90	86	85	87	89	88	78	76	76	82	78	86	87	87	88	89	91	88	90	84	89	88	91	94	88	70	79	80	84	80	85	84.9
	Minimum	72	68	66	66	69	71	69	59	58	63	65	64	70	68	70	70	72	72	62	68	72	69	73	73	61	60	58	60	54	55	..	[a]65.9

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

551.05
UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVI. COLUMBIA, MO., SEPTEMBER, 1922. No. 9.

GENERAL SUMMARY.

September, 1922, was the fourth consecutive month of its name that has been characterized by excessive warmth. The month opened with high temperatures and rather unusual heat persisted during the first 8 or 9 days, the afternoon maxima reaching and exceeding the 100 degree value at more than half the number of stations on several days. The last three days also were unusually warm.

Unlike the past several Septembers, this month was relatively dry, save in the central and western parts of the State. In the southwestern plain up to about the 11th, and in most of the Ozarks and southeastern lowlands during most of the month droughty conditions persisted, happily, however, being occasionally relieved by beneficial showers. Thunderstorms were less frequent than the usual, and, in fact, the type that did occur this month may be classed as thundershowers rather than thunderstorms, as there were few if any attended by damaging squalls.

The dryness caused some deterioration of late planted corn and other late crops, meadows and pastures, along the eastern border and over the greater part of the southern half of the State. The bulk of the corn crop was fairly well made before the lack of moisture was much felt. Plowing made good progress in most of the principal wheat growing counties.

TEMPERATURE.

The monthly mean for the State, based upon the records of 70 stations, was 71.7°. The departure from the normal for 67 stations having 10 or more years' record was plus 2.6°. The first nine days were noticeably warm, the daily excess averaging from 6° to 16°. The following week, beginning with the 10th, was mainly moderate. This in turn was followed by a cool spell, terminating in light frost values on the morning of the 27th; moderate summer warmth prevailed the last three days. During the first week thermometers registered 100° or higher at 40 stations on one or more days, though generally on one day, the 1st, 2nd or 7th. In the southwestern plain --- the most droughty section up to the 11th --- there were five days with 100° or higher.

PRECIPITATION.

The average precipitation for the State, based upon the records of 83 stations, was 3.31 inches, or 0.57 inch below the normal, as determined from 70 stations having records for 10 years or more. Precipitation of the month was unevenly distributed, being deficient along the eastern border, in the Ozarks, and in a few of the north-northeast counties. It was very dry in the southwestern plain up to the 11th, but after that date heavy rains fell, giving a large excess for the month. In the eastern part of the Ozarks and in most of the southeastern lowlands the month was one of the driest of its name on record. The most general rain fell on the 9th and 10th, and also the heaviest, although some heavy local rains occurred on other dates. Monthly totals of from 2 to 5 inches fell at 7 stations in the northeast plain, 8 in the southwest plain, and 6 in the northwest plateau. The greatest amount was 8.22 inches, at Harrisonville, 5.36 inches falling during one rainstorm, on the 3rd.

WIND.

The prevailing winds were from the south. The total number of miles, as determined from records of 8 stations equipped with anemometers, was 5,207, or an average hourly velocity of 7.2 miles. This is about 8 per cent less than normal. There were no damaging winds.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well placed stations equipped with sunshine records reporting, was 289, or about 78 per cent of the possible, and about 13 per cent greater than normal. September, 1921, had 18 per cent less sunshine than the present month.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---20th, and 21st.
Frosts, light.---In a few low places on the 27th.
Hail.---At Liberty on the 3rd.
Thunderstorms.---2nd, 3rd, 4th, 9th, 10th, 16th, 18th, and 19th.

ERRATA.

August, 1922, report, page 30, Kansas City monthly mean temperature should be 78.7; departure plus 2.9; page 32, maximum on the 30th should be 81; mean maximum, 88.1.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	30.07	83	67	278	74	4,342	6.0	28	sw.	2
Hannibal	30.08	82	..	...	..	4,792	6.7	38	sw.	2
Kansas City	30.05	73	55	313	84	6,773	9.1	34	n.	8
St. Joseph	30 04	78	57	276	74	5,057	7.0	29	nw.	8
St. Louis	30.07	75	51	304	82	7,072	9.8	39	sw.	1
Springfield	30.08	72	48	296	80	5,713	7.9	28	nw.	16
Cairo, Ill	30.06	83	64	...	..	4,371	6.1	24	nw.	10
Keokuk, Iowa	30.09	77	61	267	71	3,535	4.9	24	s.	1

COMPARATIVE DATA FOR SEPTEMBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	65.2	−3.7	97	28	1.11	−2.56	.....	0	4	....	....	....
1889	64.7	−4.2	94	31	4.66	+0.99	.....	0	11	....	....	....
1890	63.7	−5.2	98	34	3.98	+0.31	.....	0	9	....	....	....
1891	70.6	+1.7	104	30	0.63	−3.04	.....	0	6	....	....	....
1892	67.8	−1.1	97	32	2.39	−1.26	3.00	0	4	19	6	5
1893	69.9	+1.0	107	26	3.92	+0.25	5.20	0	6	17	7	6
1894	68.5	−0.4	101	34	4.93	+1.26	3.07	0	5	13	11	6
1895	71.8	+2.9	104	25	2.45	−1.22	6.21	0	4	19	8	3
1896	65.0	−3.9	101	28	4.17	+0.50	4.40	0	10	11	10	9
1897	74.3	+5.4	105	27	0.74	−2.93	2.13	0	2	23	5	2
1898	70.9	+2.0	103	30	6.74	+3.07	6.10	0	9	15	9	6
1899	67.4	−1.5	108	16	2.04	−1.63	3.01	0	4	20	6	4
1900	71.1	+2.2	100	29	4.81	+1.14	3.79	0	10	13	10	7
1901	68.9	0.0	103	27	2.31	−1.36	2.80	0	6	18	8	4
1902	63.2	−5.7	95	30	4.78	+1.11	6.55	0	10	15	6	9
1903	66.4	−2.5	98	32	4.41	+0.74	6.77	0	8	17	6	7
1904	69.6	+0.7	96	34	3.85	+0.18	2.46	0	3	16	8	6
1905	69.6	+0.7	98	41	7.67	+4.00	7.90	0	10	15	6	9
1906	71.9	+3.0	98	36	4.15	+0.48	4.28	0	11	15	8	7
1907	68.9	0.0	101	31	1.93	−1.74	2.25	0	6	18	7	5
1908	71.6	+2.7	99	28	1.80	−1.87	2.68	0	4	18	8	4
1909	68.7	−0.2	105	28	4.62	+0.95	4.48	0	8	18	6	6
1910	69.5	+0.6	97	34	5.53	+1.91	4.63	0	10	14	6	10
1911	73.7	+4.6	105	39	7.13	+3.46	7.75	0	11	13	7	10
1912	68.6	−0.3	105	27	3.06	−0.61	3.61	0	9	17	5	8
1913	69.4	+0.5	109	27	4.63	+0.79	4.08	0	9	13	7	10
1914	69.6	+0.5	99	35	6.27	+2.52	9.22	0	9	15	8	7
1915	70.6	+1.5	98	34	5.25	+1.51	5.91	0	7	16	7	7
1916	67.8	−1.5	101	27	2.94	+0.86	2.80	0	6	19	7	4
1917	67.9	−1.2	101	33	2.78	−1.09	4.13	0	5	19	6	5
1918	62.3	−6.7	96	29	4.73	+0.77	6.61	0	7	17	6	7
1919	71.4	+2.7	104	38	3.29	−0 54	4.93	0	5	20	6	4
1920	70.0	+1.4	100	31	4.81	+0.92	4.10	0	9	17	7	6
1921	73.4	+4.7	104	34	7.03	+3.15	5.45	0	13	13	9	8
1922	71.7	+2.6	107	34	3.31	−0.57	5.36	0	5	21	5	4

Climatological Data for September, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip. .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	71.4	+ 5.3	101	1†	45	26†	39	3.95	−0.38	1.25	0	7	19	0	11	s.	O. K. Benecke
Clifton Hill	Randolph	731	22	70.5	+ 1.9	100	6†	42	27	38	4.14	+0.28	1.50	0	7	20	3	7	......	Dr. A. J. Bradsher
Columbia	Boone	748	31	70.8	+ 1.8	100	1	44	27	32	3.79	+0.94	2.85	0	7	20	4	6	s.	U. S. Weather Bureau
Downing	Schuyler	878	11	69.8	......	98	7	41	26	34	3 06	−1.90	1.15	0	10	17	8	5	s.	E. E. St. Clair
Fayette	Howard	661	38	67.6	− 0.8	98	1†	40	27	34	4.60	−0.14	2.39	0	5	..	..	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	29	73.0	+ 4.2	99	2	45	26	29	5.30	+1.08	3.55	0	6	19	6	5	s.	Westminster College
Gorin	Scotland	700	34	....	......	..	..	..	..	..	3.96	−0.45	2 48	0	8	19	1	10	sw.	J. W. Pulliam
Hannibal	Marion	534	37	70.2	+ 2.3	99	1	43	27	32	3.54	−0.02	2.15	0	5	20	2	8	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	71.6	+ 2.5	103	8	42	27	41	3.37	+0.09	2.05	0	7	25	2	3	n.	Miss Emma Swift
Kirksville	Adair	969	39	69.4	+ 3.4	96	7	40	27	38	3.25	−1.18	1.92	0	5	21	3	6	s.	Prof. J. S. Stokes
Louisiana	Pike	469	40	70.2	+ 2.3	100	6†	37	26†	42	3.10	−0.74	1.70	0	4	25	1	4	w.	J. T. Farrell
Macon	Macon	875	28	69.4	+ 1.0	98	1†	40	26	36	4.56	+0.48	1.87	0	7	17	9	4	sw.	W. C. Brown
Mexico	Audrain	800	43	68.2	− 0.6	106	2	39	26	38	4.10	−0.31	1.82	0	5	21	3	6	sw.	Mrs. Abbie Snoddy
Palmyra	Marion	652	22	69.0	+ 0.4	100	1	40	26	33	5.04	+1.33	2.81	0	6	19	4	7	ne.	W. B. Markell
St. Catherine	Linn	800	12	69.0	+ 1.2	94	7	44	11†	29	3 81	. ....	1.46	0	7	17	9	4	sw.	L. D. Baker
St. Charles ††	St. Charles	456	43	73.2	+ 6.0	101	2	43	26	38	2.48	−0.60	1.25	0	4	21	3	6	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	73.8	+ 3.7	99	2	50	26	29	2.49	−0.42	2.02	0	5	22	5	3	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	73.0	+ 2.8	99	2	49	26	31	2.40	−2.24	1.78	0	4	23	3	4	ne.	St. Louis University
Shelbina	Shelby	779	28	....	......	..	..	..	..	..	....	......	....	0	..	..	..	..	......	S. G. Parsons
Steffenville	Lewis	650	28	73.5	+ 4.8	104	7	40	27	38	3.68	−0.55	1.80	0	5	19	5	6	e.	Frank Hall
Unionville	Putnam	1,062	28	68.6	+ 1.3	96	1	40	11†	42	2.75	−1.93	1.40	0	7	23	2	5	n.	Geo. W. Davis
Warrenton	Warren	816	31	71.4	+ 2.6	99	2†	42	26	38	2.10	−1.86	0.70	0	6	18	8	4	sw.	Prof. A. W. Eberling
Keokuk, Iowa	Lee, Ia.	574	49	70.0	+ 3.6	98	7	46	26	31	2.92	−1.05	2.42	0	6	20	2	8	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	70.7	+ 2.5	106	2	37	26†	42	3.56	−0.46	3.55	0	6	20	4	6	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	80.1	+ 6.7	106	7	53	26	43	2.95	−0.15	2.70	0	2	28	1	1	e.	H. E. Averill
Doniphan	Ripley	344	17	71.2	+ 0.4	101	7	34	28	51	0.15	−3.49	0.10	0	2	25	3	2	s.	W.W. Martin
Jackson	Cape Girardeau	428	31	72.6	+ 2.7	99	7	41	27	41	5.41	+1.86	4.43	0	4	15	10	5	s.	John G. Putz
Marble Hill	Bollinger	470	27	71.8	+ 1.4	98	7	39	27	42	1.32	−2.31	1.32	0	1	26	2	2	n.	R.A. DeWitt
Parma	New Madrid	281	..	....	......	..	..	..	..	..	....	......	....	0	..	..	..	..	......	J.E. Pearce
Patton (near)	Bollinger	500	11	....	......	..	..	..	..	..	0.48	−2.73	0.48	0	1	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	339	17	74.0	+ 2.7	100	7	46	21	37	0.53	−3.05	0.20	0	3	21^{a}	8^{a}	0^{a}	n.	Rev. John H. Gallaher.
Vanduser	Scott	304	..	....	......	..	..	..	..	..	0.86	......	0.53	0	3	27	0	3	. ....	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	74.2	+ 2.7	96	7	52	26	27	1.41	−1.06	0.78	0	4	21	4	5	n.	U. S. Weather Bureau
Section means and	extremes	....	..	74.0	+ 2.8	106	7	34	28	51	1.64	−1.56	4.43	0	2	23	4	3	n.	
Ozark Plateau.																				
Arcadia	Iron	926	43	68.7	+ 1.1	95	6	34	27	44	0.94	−2.70	0.30	0	4	22	3	5	s	Arcadia College
Birchtree	Shannon	1,000	28	70.8^{h}	+ 1.3	98	6	45	27	35	0.69	−2.90	0.44	0	2	25	3	2	s.	V. H. Kirkendall
Bolivar	Polk	1,071	32	73.0	+ 3.4	104	1	42	26	37	2.30	−1.80	1.10	0	4	21	6	3	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	72.0	+ 1.3	103	1	39	12†	46	1.58	−2.04	1.22	0	4	24	2	4	sw.	H. E. Dean
Eldon	Miller	934	22	72.2	+ 2.9	103	2	40	27	36	2.11	−1.69	1 46	0	5	11	13	6	s	E. H. Shepherd
Farmington	St. Francois	918	24	70.4	+ 1.1	98	6	40	27	38	1.21	−2.01	0.87	0	4	23	5	2	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	70.4	+ 0.9	98	6	37	27	40	1.23	−3.03	1.06	0	2	22	5	3	s.	A. C. Leach
Goodland	Iron	1,000	28	69.8	+ 2.5	98	6	34	27	47	0.44	−3.29	0.27	0	2	26	2	2	s.	F. M Adams
Greenville.	Wayne	381	..	70.5	......	96	6†	35	27	46	1.65	......	1.25	0	4	23	3	4	nw.	J. J. Amen.
Hollister	Taney	735	18	74.4	+ 2 8	107	2	39	26	50	1 15	−2.56	1.15	0	1	20	8	2	sw	W. P. Chapmann
Houston	Texas	1,280	29	71.0	+ 2.4	99	2†	31	27	51	1.23	−2.88	0.64	0	2	25	3	2	ne.	Walter T. Beard
Koshkonong ††	Oregon	958	20	74.2	+ 3.3	99	7†	47	27	34	0.63	−2.76	0.43	0	2	20	5	5	n.	R. M. Hitt
Lebanon	Laclede	1,265	34	71.0	+ 1.5	104	2	38	26†	46	3.26	−0.83	1.54	0	7	18	7	5	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	73.2	+ 1.9	100	2	45	11†	30	1.73	−2.27	0.91	0	2	23	5	2	sw.	C. S. Crow
Mountain Grove	Wright	1,463	25	72.2	+ 3.8	101	3	42	12	35	1.55	−2.49	0.82	0	3	22	4	4	s.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	71.6	+ 1.3	101	1	40	26	41	2.52	−1.70	2.20	0	2	26	2	2	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	72.6	+ 4.6	97	6	42	27	44	0.80	−3.04	0.65	0	3	22	7	1	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	15	73.8	+ 5.0	99	7	46	12	33	1.38	−2.74	1.24	0	2	20	8	2	sw.	Floyd E. Fawver
Seymour	Webster	1,642	16	71.0	+ 2.4	99	1†	38	12†	43	1.03	−3.55	0.73	0	4	23	4	3	s.	Ira H. Hailey
Springfield	Greene	1,350	42	72.7	+ 4.8	97	1	47	11	28	0.95	−2.81	0.42	0	5	19	7	4	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	71.8	+ 2.6	107	2	34	27	50	1.43	−2.46	2.20	0	3	22	5	3	s.	
Southwest Plain.																				
Amoret	Bates	831	15	71.4	+ 2.7	103	1	42	11†	37	3.95	+0.05	1.21	0	6	20	6	4	sw.	Darby Fruit Farm
Appleton City	St. Clair	853	29	73.1	+ 2.8	102	1	46	26	35	4.80	+1.13	3.25	0	4	20	8	2	sw.	W. G. Bigelow
Clinton	Henry	765	34	73.8	+ 3.6	105	1	46	11†	39	5.60	+1.78	3.70	0	3	20	9	1	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	46	70.0	+ 1.7	103	1	47	26	35	8.22	+3.86	5.36	0	5	10	4	16	s.	John H. Patterson
Lamar	Barton	980	40	73.1	+ 2.5	103	1†	44	11†	40	4.13	−0.11	2 00	0	3	25	2	3	se.	Joe W. Springer
Lamonte	Pettis	867	35	73.2	+ 3.1	105	1	43	11†	35	6.18	+1.68	2.62	0	6	16	8	6	sw.	J. E. Wheeler
Marshall	Saline	779	32	71.0	+ 2.7	100	1†	39	11	36	6.94	+2.06	2 80	0	7	20	6	4	ne.	Dr. W. H. Black
Nevada	Vernon	862	30	72.2	+ 3.1	101	1	43	26	33	4.86	+0.70	2.49	0	2	18	7	5	s.	George A. Kaupp
Warsaw	Benton	687	26	72.1	+ 2.1	105	2	40	27	39	7.05	+2.73	3.55	0	8	19	9	2	e.	J. R. Smith, M. D.
Section means and	extremes	.....	..	72.2	+ 2.7	105	1†	39	11	40	5.75	+1.54	5.36	0	5	19	6	5	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	24	70.4	+ 0.8	98	1	44	11	32	3.23	−1.72	1.50	0	5	24	4	2	sw.	F. G. Ashbaugh
Bethany	Harrison	916	30	71.0^{f}	+ 4.3	102	1	39	11	46	3.15	−0.63	0.85	0	5	15^{f}	4^{f}	5^{f}	sw.	M. H. Moulton
Chillicothe	Livingston	779	13	68.6	− 1.8	98	1	39	26	38	4.34	−2.14	2.11	0	6	20	5	5	s.	Wm. J. Olenhouse
Conception	Nodaway	980	37	70.2	+ 3.2	106	1	44	27	43	3.86	+0.09	2.04	0	7	18	5	7	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	9	64.5^{f}	.....	103	1	39	11†	26	3.46	+0.89	1.38	0	5	22^{a}	2^{a}	5^{a}	e.	Fred L. Stiff
Grant City	Worth	1,134	30	69.1	+ 2.1	96	1†	43	11†	40	5.63	+1.68	2 68	0	6	20	8	2	s.	B. F. Locke
Kansas City	Jackson	963	32	72.0	+ 4.5	101	1	51	26	27	4.50	+0 74	2.45	0	8	20	4	6	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	34	69.6	+ 2.1	103	1	42	11†	39	4.35	+0.32	1.73	0	8	16	5	9	se.	Linn Terry
Lexington	Lafayette	688	39	71.2^{a}	+ 2.7	103	1	43	27	38	2.37	−2.07	0.94	0	6	19	6	5	s.	Edwin G. Loomis
Liberty	Clay	859	31	71.6	+ 2.1	105	1	44	26	34	6.58	+2.29	2.97	0	7	17	10	3	se.	James H. Harris
Maryville	Nodaway	1,169	27	69.0	+ 3.6	101	1	42	11	31	4.86	+0.62	2 00	0	8	19	2	9	s.	J. R. Brink
Oregon	Holt	1,048	66	69.0	+ 1.9	101	1	45	11	28	5.55	+1.87	1.82	0	7	20	6	4	s.	Tom Curry
St. Joseph	Buchanan	967	49	71.6	+ 2.9	104	1	45	11	30	3.09	−0.26	1.06	0	7	21	5	4	s.	U. S. Weather Bureau
Tarkio	Atchison	916	28	69.0	+ 2.8	105	1	40	11	39	3.56	+0.05	1.45	0	7	18	6	6	s.	Albert Volker
Trenton	Grundy	822	26	66.9^{h}	+ 0.6	93	7	45	11†	27	4.04	−0.19	2.49	0	8	19	3	8	se.	W. H. Estes
Section means and	extremes	.....	..	69.6	+ 2.3	106	1	39	11†	46	4.17	+0.16	2.97	0	7	19	5	6	s.	
State means and	extremes	.....	..	71.7	+ 2.6	107	2	34	27†	51	3.31	−0.57	5.36	0	5	21	5	4	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean. Anderson: of Gano. Salem, R. F D. No. 5.

Daily Precipitation for September, 1922.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	.10		.12	.02					.04	3.18	.22						.35		1.18	.05												5.26
Brunswick‖	Grand			.40						.80	1.25	.15						.35		.95	.05												3.95
Clifton Hill	Chariton			.25	.11					.47	1.50					T.	.27		.33	1.21													4.14
Columbia***	Missouri	.01	.27		T.					1.64	1.21						.08		.33	.25													3.79
Downing	Mississippi		.08	.70	.03					1.15	.23					.10	.24		.05	.45	.03										T.		3.06
Fayette‖	Missouri	T		.11						.11	2.39						.33		1.66	T.													4.60
Fulton	do		T.	.85	.16						3.55	.30							.06	.38													5.30
Gorin	Mississippi		.07	.70						2.48	.21					T.	.10		.02	.34											.04		3.96
Hannibal***	do		.44							1.34	.83					T.	T.		.75	.18	T.												3.54
Hermann‖	Missouri			1.70	.03	.03					.80	.21								.20	.10												3.07
Jefferson City‖	do		.12	.28					.10		2.05	.13								.62	.07												3.37
Kirksville	Mississippi		.27							1.92	.71						.04		.31														3.25
Louisiana	do			.65				T.		.10	1.70									.65													3.10
Macon ‖	Chariton			.64						.47	1.87	.10						.03		1.40	.05												4.56
Mexico ‖	Mississippi			1.25							1.82	.23								.78	.02												4.10
Pacific‖	Meramec	.77		.20		.26					.22	.84								T.	.03												2.32
Palmyra‖	Mississippi			.21						T.	2.81	.26					.23			1.10	.43												5.04
St. Catherine	Grand		.32		.03					1.46	.35						T.		.67	.97	.01										T.		3.81
St. Charles	Missouri			1.25						.20	.98									.05													2.48
St. Louis (1)***	Mississippi		.17	.09						T.	2.02								T.	.19	.02												2.49
St. Louis (2)	do		.40	.12						T.	1.78									.10													2.40
Shelbina	do																																....
Steffenville	do			T						.73	1.80					T.	.10		.05	1.00													3.68
Union‖	Meramec	.23		.36		.14					.30	.50								.07	.02												1.62
Unionville	Chariton		.30							.50	.90					.10	.45		.40	T.											.10		2.75
Valley Park‖	Meramee	.85		.65	T.						1.00	.50								T.	T.												2.50
Warrenton‖	Mississippi			.70	T.	.87					.60	.16								.18	.09												2.10
Keokuk, Ia.***	do		.05	T.					T.	2.13	.37		T.			T.	.05		.11	.21	T.										T.		2.92
Southeast Lowlands																																	
Cape Girardeau‡‖	Mississippi	.62			1.60							1.27									.55												4.04
Caruthersville	do																																....
Doniphan	Black	.10									.05																						0.15
Jackson	Mississippi	4.43									.50	.26									.22												5.41
Marble Hill	do										1.32																						1.32
New Madrid‖	do	1.30	1.90									.60									.05												3.85
Parma	St. Francis																																....
Patton (near)	Mississippi										.48																						0.48
Poplar Bluff	Black	.20									.19										.14												0.53
Vanduser	Mississippi	.03				.30					.53																						0.86
Cairo, Ill.***	do	.49			.07						.78									.07	T.												1.41
Ozark Plateau.																																	
Arcadia ‖	St. Francis	.30			.25					T.	.13	.26									T												0.94
Birchtree	Black				.25						.44																						0.69
Bolivar	Osage																																....
Dean	Neosho				.15					.13	1.22									.08													1.58
Eldon	Missouri	.03								.08	1.46						.14			.40													2.11
Farmington	St. Francis			.87					T.	T.	.26	.03								T.	.05												1.21
Gano	Meramec				T.						1.06							.17		T.	T.												1.23
Goodland	Black			.17							.27																						0.44
Greenville ‖	St. Francis	.23		.05							1.25										.12												1.65
Hollister	White										1.15																						1.15
Houston	Gasconade																																....
Jerome ‖	do	.06	.05		.47						.43	.14									.06												1.21
Koshkonong	Black	.20									.43																						0.63
Lebanon ‖	Osage				1.54				.32		.86	.27						T.		.09	.16	.02											3.26
Lockwood	do										.91									.82													1.73
Mountain Grove‡‖	White				.58						.15	.82																					1.55
Neosho	Neosho				T.						2 20									.32									T.				2.52
Rolla	Meramec	T.		.10						.65	.05									T.													0.80
Seligman	Neosho				T.	T.		.14			1.24									T.													1.38
Seymour	White	T									.73						.14	.12		.04	T.												1.03
Springfield***	do			.03	T.						.42						.27	.01		.22													0.95
Steelville‖	Meramee	.43			.05	.35					.85	.85																					2.53
Tuscumbia ‖	Osage	.02		.40	.05						.57	.16						T.		.60													1.80
Southwest Plain.																																	
Amoret	Osage			1.21						.30	1.10						.63		.09	.62													3.95
Appleton City	do			T.						.04	3.25						.33			1.18													4.80
Clinton	do			.40							3.70									1.50													5.60
Harrisonville‖	do			5.36						.28	.70							.67		1.21													8.22
Lamar ‖	Neosho										2.00	.48								1.65													4.13
Lamonte	Missouri		.30	.54						1.20	2.62						.76			.76													6.18
Marshall	do		T.	.80						.20	2.80						.40		1.45	1.20	.09												6.94
Nevada	Osage																																....
Osceola‖	do										4.90							.58		1.05													6.53
Warsaw	do		.13	.40		.05	.15			.07	3.55						1.25			1.45													7.05
Waverly ‖	Missouri			.49	.09					.65	1.52	T.					.20	.05		.95	T.												3.95
Northwest Plateau.																																	
Avalon	Grand	T.			.30					1.00	.40							1.50													.03		3.23
Bethany	do		T.	.35	T.					.85	.80						.55		.60	T.													3.15
Chillicothe ‖	do			.03	.02	.22				1.30	.66						T.			2.11	T.												4.34
Conception	Missouri		T.	.30	T.				.10	2.04	.20					T.	.32		.28										T.		.62		3.86
Edgerton	do			.38						1.38	.33								1.16												.21		3.46
Grant City	Grand				.34					2.68	.35					.75			.92												.59		5.63
Kansas City***	Missouri		.18	.55					.51	2.02	.28						.20		.75												01		4.50
Kidder ‖	Grand			.18	.55					1.73	.40						.11	.02		1.35	.01												4.35
Lexington	Missouri			.94	.13					.60		.05					.03			.62													2.37
Liberty	do			1.57	.02					2.97	.79						.27		.87												.09		6.58
Maryville	do				.07	.09				1.41	2.00					.02	.73		.25	.13											.16		4.86
Oregon	do			.33	.25					1.86					.02	.25			1.82												1.02		5.55
St. Joseph***	do			.35	.04				.64	.35							.20		1.06												.45		3.09
Tarkio	do				.24				.40	.32						.05	1.45		.60												.50		3.56
Trenton	Grand		.17		.06				2.49	.44							.12		.62	12											.02		4.04

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for September, 1922.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	101	96	93	93	98	99	101	98	79	70	77	83	88	92	86	70	77	66	71	68	80	83	88	80	75	78	81	85	91	85	..	84.4
	Minimum	70	73	69	72	69	70	71	74	69	60	47	48	54	54	56	62	52	53	54	58	51	54	56	55	49	45	45	46	57	57	..	58.3
Columbia	Maximum	100	96	89	90	96	98	98	97	88	66	70	80	85	87	82	70	73	76	65	64	74	81	84	76	68	72	76	83	86	87	..	81.9
	Minimum	76	70	72	69	73	74	74	75	65	52	46	49	57	59	62	60	54	54	58	55	52	54	59	57	49	46	44	59	57	59	..	59.7
Fayette	Maximum	98	94	87	88	94	96	98	97	85	63	70	78	82	85	79	65	71	63	63	62	69	76	82	73	68	69	72	81	82	80	..	79.0
	Minimum	70	72	68	68	68	70	70	70	63	55	44	44	50	52	59	58	50	50	58	52	48	47	52	55	49	43	40	55	51	52	..	56.1
Hannibal	Maximum	99	94	88	88	94	98	98	96	84	68	69	78	83	86	78	69	72	70	67	63	76	81	84	75	68	72	74	81	87	86	..	80.9
	Minimum	73	67	69	71	73	75	75	78	68	54	48	49	58	61	62	59	52	53	59	55	53	54	59	58	49	46	43	49	55	56	..	59.4
Jefferson City §§	Maximum	101	102	94	94	100	100	103	98	92	68	71	82	86	90	86	75	77	85	67	65	74	85	87	77	70	73	80	87	89	91	..	85.0
	Minimum	71	71	69	69	69	69	70	67	72	64	48	47	49	58	60	62	54	53	54	58	54	54	55	57	50	45	42	46	56	58	..	58.3
Kirksville	Maximum	95	90	86	89	94	95	96	92	89	72	73	78	82	85	73	70	72	62	65	65	78	84	84	77	68	74	78	81	87	76	..	80.3
	Minimum	70	69	66	69	69	72	72	74	68	55	57	52	54	56	58	59	47	51	58	61	50	55	59	58	45	43	40	54	57	61	..	58.6
Louisiana	Maximum	95	98	99	99	96	100	100	98	90	88	89	80	82	87	85	73	73	74	70	65	75	80	85	85	80	70	78	78	88	92	..	85.1
	Minimum	72	68	68	68	70	72	68	72	48	46	48	44	54	60	60	60	52	48	60	58	48	50	55	58	45	37	37	37	48	50	..	55.4
Macon §§	Maximum	98	94	89	89	96	98	98	97	75	68	74	80	85	87	81	69	75	63	66	65	72	81	85	76	71	73	77	83	86	83	..	81.1
	Minimum	70	74	67	68	69	70	72	74	68	58	43	49	55	56	59	60	49	50	55	55	51	53	58	57	45	40	44	47	56	60	..	57.7
Mexico §§	Maximum	98	106	89	89	96	99	98	96	91	66	69	80	86	89	81	70	73	72	66	64	76	82	87	75	68	73	78	79	88	90	..	79.1
	Minimum	69	75	68	69	70	72	73	72	68	64	44	46	50	58	59	60	49	50	55	55	52	51	56	58	45	39	40	45	51	56	..	57.3
St. Catherine	Maximum	93	88	86	84	90	93	94	93	86	65	70	77	80	84	78	69	71	64	66	66	73	78	82	76	69	71	76	82	85	78	..	78.9
	Minimum	72	72	69	70	70	71	72	74	68	56	44	51	55	57	60	61	51	54	58	55	48	53	58	60	47	44	47	57	58	60	..	59.1
St. Louis (1)	Maximum	89	99	88	90	95	98	98	95	94	80	70	77	84	87	85	80	76	79	73	69	75	85	87	79	71	74	77	82	86	89	..	83.7
	Minimum	73	70	70	74	75	77	77	76	78	60	55	56	60	63	64	63	58	55	62	59	58	62	65	60	51	50	56	59	63	64	..	63.8
Unionville	Maximum	96	88	90	91	94	95	95	94	86	74	75	78	83	82	74	72	71	62	64	70	77	81	87	82	75	74	82	83	88	76	..	81.3
	Minimum	70	67	62	68	66	70	71	70	66	55	40	52	55	56	66	54	46	49	56	52	46	50	55	52	42	38	40	50	56	60	..	56.0
Warrenton §§	Maximum	96	99	87	87	96	98	99	97	93	69	69	80	87	89	83	77	75	79	71	65	78	85	87	77	70	75	79	87	89	92	..	83.8
	Minimum	67	74	69	69	70	71	72	73	73	66	48	49	53	57	60	59	54	50	51	57	57	56	57	60	46	42	44	49	54	60	..	58.9
Southeast Lowlands.																																	
Caruthersville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Doniphan	Maximum	84	95	95	93	96	98	101	96	95	92	76	81	86	90	93	88	81	86	86	80	75	86	89	91	82	77	81	85	88	89	..	87.8
	Minimum	71	69	69	68	61	66	67	56	54	41	51	43	47	50	55	60	62	52	52	59	55	52	52	54	55	46	41	34	49	50	..	54.7
Jackson	Maximum	84	95	87	90	97	92	99	96	95	92	74	81	81	91	94	86	82	87	86	76	74	88	91	90	80	77	82	88	91	92	..	87.3
	Minimum	67	69	72	71	69	70	67	72	69	68	56	47	51	53	54	62	51	48	54	62	57	53	55	55	50	44	41	50	50	53	..	58.0
Poplar Bluff	Maximum	82	96	94	91	98	99	100	98	97	90	76	81	86	91	94	87	83	86	84	80	76	87	89	92	86	78	83	87	89	90	..	88.3
	Minimum	73	68	71	71	70	69	71	72	70	70	57	49	52	55	59	65	60	49	57	52	46	57	56	58	54	48	47	54	53	56	..	59.6
Cairo, Ill.	Maximum	78	90	88	89	93	92	96	93	91	88	72	77	83	87	90	83	78	82	84	74	75	85	87	86	75	75	80	85	84	88	..	84.3
	Minimum	70	71	73	73	73	76	71	75	75	61	59	57	62	65	65	65	60	56	61	60	60	62	63	63	54	52	53	60	62	62	..	64.0
Ozark Plateau.																																	
Arcadia §§	Maximum	84	94	87	90	91	95	92	91	92	75	72	78	83	87	89	81	79	80	78	70	73	83	88	82	73	75	77	84	86	87	..	83.2
	Minimum	65	71	71	70	64	67	66	68	65	66	53	41	46	50	51	56	56	45	50	56	56	49	48	50	47	35	34	40	45	46	..	54.2
Birchtree	Maximum	83	93	90	81	94	98	97	94	95	85	72	80	84	89	93	83	83	88	84	72	78	84	87	90	87	70	70	80	89	91	..	85.5
	Minimum	..	68	..	..	..	..	..	..	..	61	50	48	51	55	60	64	60	64	60	60	54	55	56	55	52	48	45	57	54	69	..	[h]56.2
Eldon	Maximum	101	103	98	98	102	98	101	101	98	75	72	81	87	91	90	76	79	85	70	66	75	74	79	79	72	75	70	85	90	87	..	85.3
	Minimum	72	71	73	66	67	67	71	72	62	58	44	46	52	55	55	64	55	57	59	57	53	54	56	56	59	65	40	55	55	55	..	59.0
Farmington	Maximum	85	96	86	88	94	98	97	93	95	78	73	73	80	87	88	83	80	80	78	70	77	86	87	83	72	70	75	86	86	87	..	83.7
	Minimum	71	70	72	70	64	70	72	68	68	58	51	43	54	55	54	61	54	49	55	59	53	52	53	55	47	44	40	48	48	52	..	57.0
Hollister	Maximum	106	107	105	100	104	107	104	103	100	88	80	85	92	98	100	88	90	94	88	88	86	88	86	95	90	88	86	90	94	96	..	94.2
	Minimum	71	70	70	68	66	65	66	68	68	60	46	42	45	50	60	55	60	52	50	50	48	44	46	50	48	39	40	40	50	48	..	54.5
Koshkonong	Maximum	96	95	81	87	96	98	99	99	95	84	72	78	85	89	93	87	83	87	84	78	75	85	87	89	78	77	81	86	89	90	..	86.8
	Minimum	72	71	73	72	70	71	72	72	70	63	51	48	55	58	73	62	62	54	60	62	54	57	59	62	54	48	47	57	59	59	..	61.6
Lebanon §§	Maximum	102	104	96	94	92	98	96	94	96	68	72	82	87	91	93	83	82	88	70	68	75	84	84	86	74	77	84	86	87	91	..	86.1
	Minimum	70	73	70	63	68	70	71	71	71	64	43	43	45	54	55	58	56	55	56	55	48	52	52	50	42	38	38	44	50	55	..	56.0
Mountain Grove §§	Maximum	94	97	101	90	94	97	96	93	93	72	71	80	83	90	92	84	82	87	74	72	80	82	88	87	79	77	83	86	89	90	..	86.1
	Minimum	70	68	72	68	68	69	69	69	68	64	45	42	48	55	61	62	57	57	59	55	54	52	56	54	46	47	48	52	58	59	..	58.4
Neosho	Maximum	101	100	99	97	98	97	100	99	97	94	72	81	86	91	91	91	85	87	84	70	77	84	86	87	81	76	77	88	81	88	..	88.2
	Minimum	76	67	66	61	66	66	66	66	66	60	42	41	50	50	54	58	55	54	59	49	53	49	51	49	41	40	45	53	52	48	..	55.1
Rolla	Maximum	88	95	90	91	93	97	95	94	92	87	72	80	87	89	90	85	80	83	76	61	78	85	89	82	76	76	80	86	88	91	..	85.3
	Minimum	73	72	71	68	70	72	74	72	71	60	47	46	56	60	60	61	58	52	62	58	56	55	60	59	50	44	42	56	56	54	..	59 8
Springfield	Maximum	97	96	90	87	94	94	95	94	91	77	69	77	83	87	90	85	79	85	66	65	71	80	83	83	73	73	79	82	86	87	..	83.3
	Minimum	77	76	74	72	71	73	74	75	73	55	47	52	56	59	65	62	60	60	54	54	52	57	61	59	52	50	53	63	63	64	..	62.1
Southwest Plain.																																	
Amoret	Maximum	103	102	96	97	98	97	100	100	95	83	72	82	85	90	88	78	80	85	70	68	72	80	85	85	73	74	74	87	87	86	..	85.7
	Minimum	75	72	66	67	68	69	67	70	67	57	42	48	53	53	58	58	54	55	55	52	47	49	52	54	47	42	45	54	54	62	..	57.1
Appleton City	Maximum	102	101	98	99	99	100	100	99	94	82	73	81	84	88	89	81	78	86	74	68	70	82	85	78	72	73	75	84	87	87	..	85.6
	Minimum	77	79	71	70	70	71	71	75	70	59	48	50	54	57	62	61	56	58	58	57	52	55	57	58	50	46	48	60	58	61	..	60.6
Clinton	Maximum	105	103	93	100	100	101	102	100	96	80	76	89	86	95	92	80	80	85	75	66	73	82	87	80	75	75	78	85	89	86	..	87.1
	Minimum	77	75	70	70	70	70	74	71	70	60	46	55	56	59	53	61	55	58	58	56	53	55	57	58	55	47	46	60	57	60	..	60.4
Harrisonville §§	Maximum	103	98	90	91	97	96	99	94	76	60	71	80	82	88	80	74	75	78	64	66	71	79	83	63	70	73	71	86	88	83	..	81.0
	Minimum	73	74	61	71	69	70	71	72	70	60	48	49	54	55	56	63	53	58	57	56	50	52	57	57	48	47	49	51	59	61	..	59.0
Lamar §§	Maximum	103	103	99	99	100	101	102	99	100	75	76	84	88	92	96	79	85	91	72	68	76	86	88	85	78	78	78	91	91	90	..	88.4
	Minimum	77	72	71	67	67	68	68	70	68	63	44	44	49	52	56	62	58	57	57	53	49	53	53	52	46	45	48	57	54	54	..	57.8
Lamonte	Maximum	105	104	94	94	101	102	104	101	90	74	77	84	87	93	88	69	70	72	80	70	80	84	86	89	76	78	78	88	92	88	..	86.6
	Minimum	79	73	68	69	70	71	73	74	69	56	43	49	54	56	60	60	60	60	55	57	50	55	55	56	48	44	43	57	58	69	..	59.7
Marshall	Maximum	100	100	90	91	96	97	100	98	93	75	75	84	83	85	85	79	75	70	66	70	76	79	83	79	74	74	78	85	89	85	..	83.8
	Minimum	76	72	68	70	68	69	69	72	69	56	39	60	50	54	60	60	50	52	58	50	51	52	55	58	49	45	44	64	53	57	..	58.3
Nevada	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warrensburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warsaw	Maximum	104	105	98	96	99	100	102	100	101	78	74	83	86	90	90	79	78	85	72	66	75	81	85	80	73	74	79	84	87	87	..	86.4
	Minimum	75	76	66	69	68	68	70	74	72	58	45	46	51	52	57	61	56	55	59	57	50	51	53	54	45	42	40	58	53	54	..	57.8
Northwest Plateau.																																	
Chillicothe §§	Maximum	98	88	89	89	94	95	96	96	75	67	73	81	84	86	81	71	74	61	67	66	70	80	86	75	71	74	78	85	87	74	..	80.4
	Minimum	72	68	68	69	67	69	70	71	69	58	42	48	54	56	59	51	51	51	54	56	50	51	55	58	44	39	40	51	57	56	..	56.8
Grant City	Maximum	96	88	89	91	92	96	95	95	70	73	70	81	84	81	78	76	72	67	66	67	73	80	87	81	74	73	78	84	88	82	..	80.9
	Minimum	69	61	66	64	70	70	72	71	60	58	43	53	56	55	57	54	52	53	56	55	46	55	57	55	47	43	47	52	59	62	..	57.3
Kansas City	Maximum	101	95	90	93	96	97	98	96	75	68	73	81	84	88	82	67	74	72	66	67	73	80	85	74	70	73	72	84	87	77	..	81.3
	Minimum	81	73	68	74	75	76	77	69	68	55	51	57	60	63	62	60	56	58	55	57	53	59	63	60	52	51	53	61	64	68	..	62.7
Kidder §§	Maximum	103	92	93	90	95	98	98	97	76	69	76	85	85	89	85	76	76	62	65	68	78	81	90	76	74	75	78	85	89	72	..	82.5
	Minimum	66	70	69	69	68	69	70	71	67	51	42	46	54	56	59	60	52	56	54	56	47	42	54	56	45	42	45	48	57	60	..	56.7
Lexington §§	Maximum	103	98	92	92	96	96	98	96	86	70	73	82	84	90	82	76	74	71	69	67	74	80	86	78	73	75	76	85	88	..	..	[a]83.1
	Minimum	65	74	68	71	69	71	73	75	69	59	45	53	53	57	60	62	54	56	58	58	51	52	58	58	48	44	43	58	56	62	..	59.3
Maryville	Maximum	101	90	91	90	94	98	98	97	73	66	73	80	84	79	74	72	72	65	63	60	72	79	86	75	72	73	77	82	86	77	..	80.0
	Minimum	70	69	68	69	70	72	72	69	60	53	42	52	57	58	59	55	53	55	55	55	46	52	56	56	47	44	47	57	60	61	..	58.0
Oregon	Maximum	101	89	88	87	92	96	97	96	76	68	72	80	82	81	76	71	72	69	63	62	71	75	83	77	70	70	74	74	78	71	..	78.7
	Minimum	73	71	69	72	73	76	75	69	63	54	45	56	59	62	60	58	53	58	54	56	49	55	60	58	48	47	49	51	52	52	..	59.2
St. Joseph	Maximum	104	87	92	94	97	98	99	98	77	67	75	84	86	87	82	74	77	64	63	68	74	81	89	79	74	74	78	87	89	72	..	82.3
	Minimum	79	73	70	73	74	76	76	69	63	50	45	59	62	66	62	59	55	57	56	51	45	57	62	56	48	45	48	61	64	64	..	60.8
Trenton	Maximum	83	86	88	87	90	92	93	91	85	69	68	77	79	80	78	77	71	65	65	68	71	76	81	73	71	68	72	78	80	72	..	77.8
	Minimum	..	..	..	..	..	..	..	..	69	57	45	55	57	61	66	59	54	56	58	56	53	52	58	59	49	46	45	58	59	59	..	[h]56.0

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVI. COLUMBIA, MO., OCTOBER, 1922. No. 10.

GENERAL SUMMARY.

The weather of October, 1922, was about ideal for outdoor pursuits. Nearly all the month steady warmth prevailed in all sections of the State. The first week and the final days of the month were summer-like, the afternoon temperatures ranging between 80° and 90° generally.

On the morning of the 12th temperatures approximated the light and heavy frost values, and about a week later, on the 17th and 18th, killing frosts occurred at most stations, the exception being in the immediate vicinity of the larger cities, and in the southeastern part of the State. There was no damage as all crops had matured.

There were relatively few cloudy days. The precipitation was considerably less than normal, but was fairly well distributed, and fell on one or two days at a time at about seven-day intervals. The rains were timely and beneficial; at the same time outdoor work was only temporarily interfered with. In a few southwestern counties water had to be hauled some distance for drinking and other purposes.

Farm work was about completed, except the cribbing of corn which was well underway at the close of the month. Wheat seeding was practically finished. Pastures were green and stock grazing was general, except in the southern-third of the State where pasture lands had failed because of a lack of sufficient rain.

TEMPERATURE.

The monthly mean for the State, based upon the records of 69 stations, was 59.9°, or 2.4° above the normal as determined from 67 stations having records of 10 years or more. The month was one of fine, open weather, and the fifth consecutive October with mean temperature above the normal. Temperatures were uniformly distributed, all sections having practically the same plus departures.

The first six and last seven days of the month were characterized by summer-like warmth, the average daily excess ranging from 9° to as much as 20°. Afternoon maxima were in the high 80's generally, and 90° or higher occurred at 44 stations during the first week. There were only two short cold snaps. The first occurred on the 12th, when the first light to heavy frost occurred, but as a rule, confined to the central part of the State. On the 17th, and 18th, the first killing frosts and moderate freeze occurred, except at a few stations in the extreme south-central and southeastern borders, and within the influences of the larger cities.

PRECIPITATION.

The average precipitation for the State, 87 stations reporting, was 2.00 inches. The departure from the normal for 81 stations having 10 or more years' record was minus 0.77 inch. The precipitation was less than usual in all sections, but the deficiency was less marked in the northwestern plateau. General rains, varying in amounts from light to heavy, fell on the 6th, 7th, and 8th; light rain fell about the middle of the month, and again on the 22nd or 23rd, and the 31st, about seven days intervals, but at the same time only temporarily interfering with outdoor work.

The greatest monthly amount was 3.83 inches, at Grant City, and the least was 0.51 inch, at Seligman. The greatest amount in any 24 consecutive hours, was 3.00 inches, at Goodland on the 7th.

WIND.

The prevailing winds were from the south. The average monthly movement, 8 stations equipped with anemometers reporting, was 5,700 miles, or an hourly velocity of 7.5 miles. Except about 40 miles an hour at Kansas City on the 16th, there were no damaging winds.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine for the State, based upon the records of 6 well placed stations equipped with sunshine recorders, was 249. This is about 72 per cent of the possible, and about 6 per cent above normal, 4 per cent less than in October, 1921, and 28 per cent more than occurred in October, 1920.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---1st, 2nd, 10th, 15th, 16th, 19th, and 24th.

Frost, heavy.---12th, 18th.

Frost, killing.---On the 17th and 18th, except about 7 stations, the larger cities and in the extreme southeast.

Halos, solar.---1st, and 13th. Lunar.---1st, 2nd, 27th, and 31st.

Thunderstorms.---6th, 14th, 22nd, and 31st.

OBSERVERS' REMARKS.

Downing.---A month of ideal weather.

Gorin.---Warm and dry.

Kirksville.---Fine month; warm and dry with much sunshine.

Macon.---Corn and apple crops about gathered. Pastures dry.

St. Catherine.---October was a beautiful month of sunshine and clear skies.

Warrenton.---Fine autumn weather.

Farmington.---Fine weather all month. The last week was quite warm.

Greenville.---The ground is very dry and we are needing rain very much.

Lockwood.---A very dry and warm month. Fall plowing is delayed. Pastures dried and stock water very scarce. Wheat is very small and needs moisture very badly.

Rolla.---Unusually warm and dry.

Seligman.---This section extremely dry; wells and springs drying up. Many hauling water.

Lamonte.---Farmers busy gathering corn; 20 to 25 per cent in crib. Quality generally fair to good. 75 per cent fall plowing done. Wheat looking good.

Warsaw.---One of the most beautiful Octobers ever known in this section and all farm work has progressed. Wheat looking fine but not much acreage. Corn fair to good.

Avalon.---A remarkable fine month; very warm and pleasant. Favorable for farmers. Fine rain on the last day which was much needed.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
								Max. velocity.		
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Miles per hour.	Direction.	Date.
Columbia	30.02	82	65	245	71	4,612	6.2	26	nw.	16
Hannibal	30.02	79	..	...	..	5,255	7.1	31	nw.	16
Kansas City	30.01	71	52	272	78	6,735	9.1	40	n.	16
St. Joseph	30 00	77	56	262	76	5,139	6.9	37	nw.	16
St. Louis	30.01	68	50	223	65	8,148	11.0	37	n.	16
Springfield	30.03	72	51	246	71	6,529	8.8	39	w.	22
Cairo, Ill	30.02	81	60	...	..	4,765	6.4	30	n.	17
Keokuk, Iowa	30.02	73	53	244	71	4,419	5.9	33	nw.	16

COMPARATIVE DATA FOR OCTOBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	53.6	−3.5	89	24	2.65	+0.21	......	....	7	....	....	....
1889	53.8	−3.3	91	27	2.50	+0.06	......	....	6	....	....	....
1890	54.8	−2.3	91	22	2.24	−0.20	......	....	6	....	....	....
1891	55.7	−1.4	98	19	1.11	−1.33	......	....	3	....	....	....
1892	57.5	+0.6	95	16	2.28	−0.16	2.40	0	5	16	7	8
1893	56.7	−0.4	95	16	0.99	−1.45	2.81	....	10	20	8	3
1894	57.6	+0.5	94	18	1.74	+0.70	3.52	T.	6	17	8	6
1895	54.2	−5.9	89	15	0.35	−2.09	1.20	T.	2	21	6	4
1896	54.1	−3.0	90	19	2.48	+0.04	2.68	0	5	19	6	6
1897	62.5	+5.4	99	23	0.71	−1.73	1.70	0	3	22	6	3
1898	53.5	−3.6	94	19	4.23	+1.79	4.51	1.4	8	11	7	13
1899	62.4	+5.3	100	24	2.93	+0.49	2.53	0	5	20	6	5
1900	62.4	+5.3	92	25	4.18	+1.74	4.04	0	7	17	7	7
1901	60.1	+3.0	96	24	1.64	−0.80	2.98	0	6	18	8	5
1902	59.5	+2.4	88	28	2.52	+0.08	2.69	0	5	21	5	5
1903	57.2	+0.1	90	19	2.85	+0.41	3.80	0	6	19	6	6
1904	57.6	+0.5	90	19	0.90	−1.54	2.46	0	3	20	7	4
1905	55.1	−2.0	90	20	4.64	+2.20	7.24	0.3	5	17	6	8
1906	56.3	−0.8	94	17	0.87	−1.57	1.50	0	10	15	7	9
1907	56.7	−0.4	94	18	2.90	+0.46	3.46	0	7	19	5	7
1908	56.3	−0.8	92	21	2.74	+0.30	4.90	0.8	5	18	6	7
1909	57.2	+0.1	96	20	2.77	+0.33	2.57	T.	6	19	5	7
1910	59.4	+2.3	94	15	2.71	+0.27	5.50	0	5	22	4	5
1911	56.9	−0.2	96	25	3.30	+0 86	5.12	0.2	8	11	7	13
1912	59.1	+2.0	97	21	3.83	+1.39	5.12	0.7	6	20	5	6
1913	54.7	−2.5	93	11	4.46	+1.94	2.80	3.3	9	15	6	10
1914	59.2	+2.0	88	19	4.54	+2.04	5.40	0	7	14	6	11
1915	59.8	+2.9	95	22	1.19	−1.45	1.97	0	3	23	5	3
1916	58.0	+0.7	95	20	2.17	−0.54	3.90	0	6	18	5	8
1917	49.8	−7.4	93	12	1.16	−1.49	2.00	0.2	6	16	8	7
1910	60.6	+3.5	95	28	3.37	+0.71	5.61	0	7	14	6	11
1919	58.4	+1.4	98	17	6.74	+3.92	4.91	0	11	10	7	14
1920	61.3	+4.3	93	18	2.89	+0.25	2.45	T	7	17	6	8
1921	57.9	+0.8	92	24	2.19	−0.40	2.32	0	5	21	5	5
1922	59.9	+2.4	97	18	2.00	−0.77	3.00	0	5	20	5	6

Climatological Data for October, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	59.0	+ 4.2	93	3	30	17†	43	0.99	−1.86	0.40	0	5	20	0	11	s.	O. K. Benecke
Clifton Hill	Randolph	731	22	59.2	+ 2.3	91	3	28	17	40	1.26	−0.59	0.54	0	5	22	2	7	......	Dr. A. J. Bradsher
Columbia	Boone	748	31	59.4	+ 1.6	89	4	30	18	35	1.50	−0.92	0.95	0	6	21	2	8	se.	U. S. Weather Bureau
Downing	Schuyler	878	11	59.2	......	90	2†	28	17	42	2.65	+0.29	1.40	0	6	20	6	5	s.	E. E. St. Clair
Fayette	Howard	661	38	55.4	− 2.4	88	4	27	18	43	2.20	−0.27	1.80	0	3	..	..	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	29	59.7	+ 2.1	90	3†	31	18	45	2.80	+0.30	2.06	0	7	21	5	5	sw.	Westminster College
Gorin	Scotland	700	34	....	......	..	..	..	..	..	1.02	−1.39	0.49	0	3	21	3	7	se.	J. W. Pulliam
Hannibal	Marion	534	37	59.1	+ 3.2	90	3	33	17	36	1.83	+0.19	0.88	0	5	21	3	7	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	59.4	+ 2.7	92	5	29	18	38	1.59	−1.00	0.95	0	5	23	1	7	s.	Miss Emma Swift
Kirksville	Adair	969	39	58.2	+ 4.2	89	1†	28	17	37	1.92	−0.94	1.09	0	6	22	2	7	s.	Prof. J. S. Stokes
Louisiana	Pike	469	40	59.2	+ 3.1	93	4	28	18	42	2.25	−0.25	1.15	0	5	19	2	10	w.	J. T. Farrell
Macon	Macon	875	28	57.8	+ 0.5	87	2†	26	17	38	0.75	−2.05	0.36	0	5	19	7	5	se.	W. C. Brown
Mexico	Audrain	800	43	57.7	+ 1.2	90	3†	28	17	35	1.99	−0.32	0.97	0	6	24	1	6	nw.	Mrs. Abbie Snoddy
Palmyra	Marion	652	22	57.8	+ 0.4	91	3	29	17	37	1.15	−1.24	0.58	0	2	17	6	8	nw.	W. B. Markell
St. Catherine	Linn	800	12	58.7	+ 2.8	86	2†	29	18	36	1.87	−0.10	1.08	0	7	23	3	5	s.	L. D. Baker
St. Charles	St. Charles	456	43	62.0	+ 4.1	94	3	33	18	40	1.42	−1.09	0.88	0	3	20	3	8	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	62.2	+ 3.8	90	3	38	18	31	1.74	−0.67	1.03	0	7	17	5	9	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	61.4	+ 2.5	90	4	35	18	31	2.40	−1.39	1.60	0	9	19	3.	9	se.	St. Louis University
Shelbina	Shelby	779	28	....	......	..	..	..	..	..	1.05	−1.97	0.50	0	3	..	..	..	.....	S. G. Parsons
Steffenville	Lewis	650	28	62.6	+ 5.4	93	30	27	17	39	1.70	−0.38	0.90	0	5	21	5	5	s.	Frank Hall
Unionville	Putnam	1,062	28	57.6	+ 2.2	88	2†	27	17	37	2.86	+0.42	1.00	0	4	16	5	10	n.	Geo. W. Davis
Warrenton	Warren	816	31	60.0	+ 4.6	94	3	33	17	41	1.70	−1.03	0.80	0	4	21	5	5	sw.	Prof. A. W. Eberling
Keokuk, Iowa	Lee, Ia.	574	49	59.4	+ 4.0	90	3	32	17	36	0.77	−1.72	0.34	0	5	18	6	7	sw.	U. S. Weather Bureau
Section means and	extremes	.....	..	59.3	+ 2.6	94	3	26	17	45	1.71	−0.78	2.06	0	5	20	4	7	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	65.7	+ 4.0	97	3	37	19	45	2.80	−0.16	1.00	0	5	24	2	5	n.	H. E. Averill
Doniphan	Ripley	344	17	59.0	+ 0.6	90	1	27	18	46	1.08	−1.97	0.35	0	7	17	6	8	s.	W. W. Martin
Jackson	Cape Girardeau	428	31	60.4	+ 2.4	94	3†	29	18	42	2.93	−0.29	1.10	0	9	8	8	15	n.	John G. Putz
Marble Hill	Bollinger	470	27	60.1	+ 2.1	93	3†	29	19	43	1.68	−0.97	0.96	0	5	20	6	5	s.	R. A, DeWitt
Parma	New Madrid	281	..	....	.....	..	..	..	..	..	1.73	......	0.83	0	5	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	11	....	......	..	..	..	..	..	2.55	−0.62	1.20	0	3	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	329	17	62.3	+ 2.0	93	3	31	18	41	0.95	−2.25	0.35	0	6	17	10	4	s.	Rev. John H. Gallaher.
Vanduser	Scott	304	..	....	......	..	..	..	..	..	2.80	+0.20	1.20	0	6	25	0	6	.....	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	62.0	+ 1.6	89	3	38	18	29	2.54	−0.09	0.89	0	8	14	7	10	s.	U. S. Weather Bureau
Section means and	extremes	....	..	61.7	+ 2.2	97	3	27	18	46	2.12	−0.77	1.20	0	6	18	6	7	s.	
Ozark Plateau.																				
Arcadia	Iron	926	43	57.5	+ 1.4	89	1	25	18	51	2.12	−0.95	1.38	0	6	20	2	9	w.	Arcadia College
Birchtree	Shannon	1,000	28	61.4ª	+ 3.2	91	3	30	18	42	1.35	−1.23	0.42	0	4	24	4	3	se.	V. H. Kirkendall
Bolivar	Polk	1,071	32	60.1	+ 1.6	91	4	27	18	39	1.53	−1.78	0.95	0	3	21	7	3	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	59.8	− 0.1	93	4	18	18	53	1.67	−1.82	0.75	0	5	21	5	5	ne.	H. E. Dean
Eldon	Miller	934	22	59.9	+ 2.2	91	3	28	18	45	1.85	−1.18	0.84	0	5	16	10	5	s.	E. H. Shepherd
Farmington	St. Francois	918	24	59.2	+ 2.8	92	3	29	18	36	3.43	+0.54	2.00	0	8	16	8	7	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	59.6	+ 1.6	92	5	29	18	39	2.98	−0.90	2.45	0	6	20	5	6	se.	A. C. Leach
Goodland	Iron	1,000	28	57.8	+ 2.0	92	2†	24	18	50	3.82	+0.60	3.00	0	5	23	1	7	s.	F. M Adams
Greenville	Wayne	381	..	58.9	......	91	2†	25	18†	51	0.72	......	0.25	0	7	19	5	7	s.	J. J. Amen.
Hollister	Taney	735	18	61.0	+ 0.6	96	4	25	18	53	3.00	+0.17	1.00	0	4	19	5	7	sw.	W. P. Chapmann
Houston ††	Texas	1,280	29	58.4	+ 1.2	92	3	24	18	51	3.32	+0.58	2.00	0	4	16	10	5	se.	Walter T. Beard
Koshkonong	Oregon	958	20	62.2	+ 2.2	91	3†	34	18	31	2.33	−0.58	0.80	0	9	14	11	6	s.	R. M. Hitt
Lebanon	Laclede	1,265	34	59.0	+ 1.0	90	3†	26	18†	45	1.63	−1.63	1.01	0	5	18	6	7	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	61.3	+ 2.7	89	4	29	18	43	1.22	−2.23	0.86	0	3	18	10	3	se.	C. S. Crow
Mountain Grove	Wright	1,463	25	60.2	+ 2.6	90	2	26	18	42	1.89	−1.16	1.20	0	4	18	10	3	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	60.8	+ 1.6	91	3†	21	18	52	1.47	−1.92	0.58	0	6	21	6	4	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	61.0	+ 5.1	91	2†	31	18	38	2.50	−0.45	1.22	0	6	22	4	5	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	15	61.6	+ 3.3	90	4	29	18	39	0.51	−2.43	0.29	0	4	18	9	4	sw.	Floyd E. Fawver
Seymour	Webster	1,642	16	59.3	+ 1.8	88	3	21	18	42	1.91	−1.10	0.87	0	7	21	5	5	s.	Ira H. Hailey
Springfield	Greene	1,350	42	61.0	+ 3.7	86	3	32	18	30	1.60	−1.20	1.13	0	6	18	8	5	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	60.1	+ 2.2	96	4	18	18	53	1.98	−1.07	3.00	0	5	19	7	5	s.	
Southwest Plain.																				
Amoret	Bates	831	15	58.6	+ 1.5	88	4†	29	17†	44	3.30	+0.78	1.25	0	6	17	5	9	sw.	Darby Fruit Farm
Appleton City	St. Clair	853	29	60.9	+ 1.8	89	3	31	18	40	1.29	−1.05	0.55	0	7	20	8	3	se.	W. G Bigelow
Clinton	Henry	765	34	59.7	+ 1.1	91	3	30	18	34	1.40	−1.41	0.75	0	4	21	6	4	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	46	59.2	+ 3.2	89	4	29	17	41	2.03	−0.56	1.10	0	6	15	3	13	s.	John H. Patterson
Lamar	Barton	980	40	61.3	+ 2.4	94	4	25	18	45	1.47	−1.66	0.99	0	5	23	2	6	se.	Joe W. Springer
Lamonte	Pettis	867	35	60.0	+ 2.0	92	3	28	17†	43	2.14	−0.19	0.60	0	7	19	3	9	sw.	J. E. Wheeler
Marshall	Saline	779	32	59.2	+ 2.6	89	3	29	17†	43	1.87	−0.71	1.05	0	4	23	2	6	sw.	Dr. W. H. Black
Nevada	Vernon	862	30	59.8	+ 2.5	88	4	27	18	38	1.17	−1.91	0.87	0	3	20	8	3	s.	George A. Kaupp
Warsaw	Benton	687	26	59.8	+ 0.7	91	4	30	19	47	1.50	−1.81	0.35	0	8	21	6	4	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	59.8	+ 2.0	94	4	25	18	47	1.80	−0.95	1.25	0	6	20	5	6	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	24	60.0	+ 1.5	89	3	28	17	36	1.95	−1.23	1.00	0	3	16ᵉ	7ᵉ	3ᵉ	sw.	F. G. Ashbaugh
Bethany	Harrison	916	30	57.1ᵇ	+ 2.8	90	2†	24	18	49	2.32	+0.11	0.95	0	4	18ᵇ	7ᵇ	4ᵇ	sw.	M. H. Moulton
Chillicothe	Livingston	779	13	57.2	+ 2.1	89	3	28	17†	44	1.49	−2.74	0.75	0	4	25	1	5	s.	Wm. J. Olenhouse
Conception	Nodaway	980	37	59.8	+ 4.4	94	6	27	17	38	3.59	+1.12	1.31	0	5	22	2	7	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	9	...	......	..	..	22	12	..	2.13	−0.34	0.95	0	6	23	2	6	s.	Fred L. Stiff
Grant City	Worth	1,134	30	58.8	+ 3.6	87	5†	25	17	38	3.83	+1.06	1.81	0	4	22	7	2	s.	B. F. Locke
Kansas City	Jackson	963	32	60.6	+ 4.8	87	4	34	17	32	2.31	+0.10	1.66	0	5	21	4	6	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	34	57.0	+ 0.8	87	2	26	17	46	1.44	−1.32	0.77	0	6	24	1	6	se.	Linn Terry
Lexington	Lafayette	688	39	61.6	+ 4.1	94	4	30	17	46	0.89	−1.68	0.46	0	6	21	3	7	s.	Edwin G. Loomis
Liberty	Clay	859	31	59.8	+ 2.4	90	4	27	17	42	2.26	−0.24	1.21	0	5	26	0	5	se.	James H. Harris
Maryville	Nodaway	1,169	27	58.0	+ 4.8	86	6	26	17	36	2.46	−0.37	1.03	0	5	23	0	8	s.	J. R. Brink
Oregon	Holt	1,048	66	57.8	+ 2.9	86	3	28	17	28	3.07	+0.48	1.55	0	7	22	4	5	s.	Tom Curry
St. Joseph	Buchanan	967	49	59.4	+ 3.1	90	6	30	17	36	2.72	+0.12	0.87	0	6	23	3	5	s.	U. S. Weather Bureau
Tarkio	Atchison	916	28	57.1	+ 1.6	88	5†	25	17	38	2.48	−0.03	1.05	0	5	20	6	5	se.	Albert Volker
Trenton	Grundy	822	26	57.0	+ 0.5	82	4†	30	17	33	3.18	+0.66	1.90	0	6	25	2	4	s.	W. H. Estes
Section means and	extremes	.....	..	58.7	+ 2.8	94	4†	22	12	49	2.41	−0.29	1.90	0	5	22	4	5	s.	
State means and	extremes	.....	..	59.9	+ 2.4	97	3	18	18	53	2.00	−0.77	3.00	0	5	20	5	6	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ª, ᵇ, ᶜ, appearing in the table indicate number of days missing; for example, ᵇ represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for October, 1922.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri						3.10	1.40	.05	.05						.17								.26								.09	5.12
Brunswick‖	Grand	.10						.30	.03							.16								.40									0.99
Clifton Hill	Chariton						.42	.03	.05						.22								.54									T.	1.26
Columbia***	Missouri						.95	T.	.04						.33								.14	.01								.03	1.50
Downing	Mississippi							.58	.03						.09								.35	.20								1.40	2.65
Fayette‖	Missouri						1.80								.13								.27										2.20
Fulton	....do						2.06	.02							.11	.38	.01							.16								.06	2.80
Gorin	Mississippi							.32							.21								.49										1.02
Hannibal***	....do						.84	.04	T.					T.	.11								.37									.47	1.83
Hermann‖	Missouri							.45		.05						.31								.14								T.	0.95
Jefferson City‖	....do						.05	.95		.05						.42								.12									1.59
Kirksville	Mississippi							.26	.07						.07								.30	.13								1.09	1.92
Louisiana	....do						1.15	.25	T.					T.		.30							.52									.03	2.25
Macon‖	Chariton						.10	T.		.05						.20								.36								.04	0.75
Mexico‖	Mississippi						.97	.23		.13						.45								.15								.06	1.99
Pacific‖	Meramec							2.11	.03	T.						.38	T.							.12									2.64
Palmyra‖	Mississippi							.58									T.							.57								T.	1.15
St. Catherine	Grand	.04						.24	.02						.07								.37	.05								1.08	1.87
St. Charles	Missouri						.88	T.				T.				.19								.35								T.	1.42
St. Louis (1)***	Mississippi						1.03	.03		.02	.09				T	.18	T.						.08									.31	1.74
St. Louis (2)	....do						1.60	.01		.02	.06				.03	.17	.01						.07									.43	2.40
Shelbina	....do					.50									.15								.40										1.05
Steffenville	....do						.90	.50	T.						.10								.10									.10	1.70
Union‖	Meramec							1.08	.02							.54								.10									1.74
Unionville	Chariton						.90								.30								.66									1.00	2.86
Valley Park‖	Meramec						T.	1.15	.03	T.		.03				.15								.10									1.46
Warrenton‖	Mississippi						.47	.80	T.	T.						.32								.11								T.	1.70
Keokuk, Ia.***	....do						.16	.01	T.						.09								.34									.17	0.77
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi							1.35	.05		.25	.35					.15	50						.30									2.95
Caruthersville	....do						.75	1.00		.15	T.						.55	T.						.35								T.	2.80
Doniphan	Black						.15	.35	.07	.08	T.					T.	.10							.30							.03		1.08
Jackson	Mississippi						.30	1.10	.05	.15	.15					.02	.60							.37								.19	2.93
Marble Hill	....do							.96		.20	.10						.20															.22	1.68
New Madrid‖	....do							.89	.17		.18	.06					.37	.54						.25									2.46
Parma	St. Francis							.50		.07	.05						.83															.28	1.73
Patton (near)	Mississippi							.75	.60								1.20																2.55
Poplar Bluff	Black							.13		.05	T.	.02				T.	.35							.32								.08	0.95
Vanduser	Mississippi						1.20			.06	.08	.06						.95						.45									2.80
Cairo, Ill.***	....do						.63	.26		.07	.47						.80						.01	.29								.01	2.54
Ozark Plateau.																																	
Arcadia‖	St. Francis							1.38	T.	.02	T					.15	.20	.28						.09									2.12
Birchtree	Black						.42	.30	.33							.30																	1.35
Bolivar	Osage							.95	.20					T.		.38																	1.53
Dean	Neosho								.75							.07							.14	.01								.70	1.67
Eldon	Missouri						.84	.35	.05							.51							.10										1.85
Farmington	St. Francis						.03	2.00		.02	.02					.13	.56							.12								.55	3.43
Gano	Meramec						1.67	.78	.07							.25	.06							.15									2.98
Goodland	Black							3.00	.17							.28	.20						.17										3.82
Greenville‖	St. Francis						T.	.25		.05		.01				.05	.06							.25								.05	0.72
Hollister	White						1.00	1.00							.80								.20									T.	3.00
Houston	Gasconade						2.00	.69								.57	.06															T.	3.32
Jerome‖	....do							1.25	.05							.45								.22									1.97
Koshkonong	Black						.64	.80	.05	.10						.20	.18	.05						.26								.05	2.33
Lebanon‖	Osage			.18				1.01	.03							.30								.11									1.63
Lockwood	....do	T.						.86	.23							.13																	1.22
Mountain Grove‖	White							1.20	T.	T.						.45	.03					T.		.21									1.89
Neosho	Neosho							.58	.30							.15						.08	.23									.13	1.47
Rolla	Meramec						1.22	.04	.15						.24								.18									.67	2.50
Seligman	Neosho							.10	.04							.29	T.						.08										0.51
Seymour	White	.08	.28				.35	.87	.04	T.						.24	.05															T.	1.91
Springfield***	....do	.06				T.	.36	.77	.22						T.	.07						T.	.12										1.60
Steelville‖	Meramec							2.00		.10						.20								.15									2.45
Tuscumbia‖	Osage							2.03	.01							.32								.09									2.45
Southwest Plain.																																	
Amoret	Osage	.90						.65	.13						.15								.22									1.25	3.30
Appleton City	....do	.03					.01	.45	T.						.08	.16	T.						.01									.55	1.29
Clinton	....do							.75	.15						.15	.35																	1.40
Harrisonville‖	....do	.35						1.10	.08							.06								.25								.19	2.03
Lamar‖	Neosho							.99	.10	.03						.25																.10	1.47
Lamonte	Missouri						.60	.50	.04						.30								.35	.05								.30	2.14
Marshall	....do						28	.24							.30							1.05										T.	1.87
Nevada	Osage							.87	.02																							.28	1.17
Osceola‖	....do							.62	.13	.10						.25	.10																1.20
Warsaw	....do						.31	.35	.35	.05					.10	.18	.06							.10								T.	1.50
Waverly‖	Missouri	.22						.30	T.	.05						.09								.36								.09	1.11
Northwest Plateau.																																	
Avalon	Grand						.40																.55									1.00	1.95
Bethany	....do						T.	.95	T.						.45	T.							.50									.42	2.32
Chillicothe‖	....do							.75	T.	.02					T.									.48								.24	1.49
Conception	Missouri						1.31	.03	T.					T.	1.30								.15								T.	.80	3.59
Edgerton	....do	T.					.59	.02	.01						.30	T.							.26									.95	2.13
Grant City	Grand						1.81								1.02								.15									.85	3.83
Kansas City***	Missouri	.01					.54		T.						.17								.43									1.16	2.31
Kidder‖	Grand	.01						.16		.02					.17									.31								.77	1.44
Lexington	Missouri	.06						.46	.01	.09						.04								.23									0.89
Liberty	....do							.41	.02						.21								.41									1.21	2.26
Maryville	....do	.33							.53						1.03									.25								.32	2.46
Oregon	....do	T.					.78		.04						1.55								.25									.45	3.07
St. Joseph***	....do	T					.87		.04					.02	.83								.23								T.	.73	2.72
Tarkio	....do						1.05								.46								.37								.10	.50	2.48
Trenton	Grand						.22	.02							.43								.31								.30	1.90	3.18

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for October, 1922.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	86	90	93	90	87	75	64	56	62	68	71	62	73	58	63	73	53	67	74	77	76	59	56	73	78	79	87	85	86	84	74	73.5
	Minimum	59	59	55	56	57	58	55	49	39	37	42	33	34	46	49	45	30	30	32	36	38	39	38	36	40	43	44	45	51	51	52	44.5
Columbia	Maximum	83	87	88	89	88	74	64	55	57	64	70	57	72	63	61	68	51	62	69	71	73	63	55	70	73	76	85	83	82	80	77	71.3
	Minimum	61	57	56	59	62	64	50	47	42	40	44	34	43	53	52	33	32	30	36	39	44	45	38	36	47	45	50	55	55	55	60	47.4
Fayette	Maximum	79	83	84	88	86	66	60	52	53	63	68	58	68	60	58	66	51	64	68	69	72	54	54	68	72	74	81	81	80	79	76	68.9
	Minimum	58	54	52	52	53	60	50	46	37	37	43	32	38	47	44	35	28	27	29	29	35	35	35	31	43	39	38	42	48	45	56	41.9
Hannibal	Maximum	87	89	90	88	87	74	65	54	57	64	68	56	68	63	60	70	52	62	70	70	74	68	54	66	68	69	83	82	81	80	73	70.7
	Minimum	61	58	57	57	64	64	51	47	45	44	46	36	41	52	51	40	33	34	34	37	44	43	41	39	44	41	48	57	52	53	59	47.5
Jefferson City §§	Maximum	83	88	90	90	92	72	60	52	57	65	72	58	72	70	69	69	53	64	69	71	72	75	55	70	72	77	85	84	82	81	81	72.6
	Minimum	58	58	59	57	60	63	59	48	45	42	43	38	38	47	46	46	34	29	30	37	38	43	40	36	38	44	47	51	48	52	54	46.1
Kirksville	Maximum	89	87	89	86	84	79	68	56	61	65	62	57	68	65	68	70	52	65	71	73	73	66	56	69	69	71	83	80	82	80	73	71.5
	Minimum	61	56	58	58	59	64	52	45	39	38	45	30	38	38	39	39	28	31	34	39	42	46	36	39	47	43	46	53	47	48	50	44.8
Louisiana	Maximum	90	88	92	93	91	89	75	82	58	58	68	58	62	66	64	70	70	60	70	70	72	72	68	64	68	70	80	83	84	80	80	74.0
	Minimum	58	52	58	54	55	62	58	48	48	44	48	36	34	44	42	43	34	28	32	33	38	40	40	34	50	35	38	44	42	52	52	44.4
Macon §§	Maximum	84	87	87	86	85	75	62	60	57	64	68	56	71	61	65	70	51	61	69	71	72	61	68	68	69	73	83	80	81	80	78	71.1
	Minimum	60	57	59	58	60	62	53	39	41	36	44	30	34	45	45	43	26	29	36	41	42	44	35	40	37	40	45	53	48	48	53	44.6
Mexico §§	Maximum	85	85	90	90	89	67	59	54	58	64	70	60	69	64	62	71	53	67	71	72	75	65	48	52	66	70	82	81	80	75	74	69.9
	Minimum	59	56	55	56	59	61	58	47	42	40	44	32	39	47	49	43	28	31	34	38	41	46	37	35	42	40	47	50	50	50	56	45.5
St. Catherine	Maximum	82	86	86	86	83	80	69	57	58	63	69	55	69	66	67	73	53	62	70	73	72	65	55	68	71	74	81	80	80	80	74	71.2
	Minimum	61	63	60	58	56	64	54	47	37	38	45	33	41	50	40	41	31	29	37	41	39	44	37	37	41	45	45	51	51	54	59	46 2
St. Louis (1)	Maximum	88	88	90	89	88	77	70	56	58	57	72	57	65	72	65	64	54	62	67	70	68	77	56	67	73	70	83	82	79	78	78	71.6
	Minimum	66	68	69	69	64	67	51	48	46	50	51	42	42	50	54	42	38	38	44	48	54	53	46	41	53	54	52	58	57	61	63	52.9
Unionville	Maximum	83	88	88	87	80	72	60	62	65	65	57	60	70	65	66	70	62	65	73	74	72	63	55	72	70	73	83	80	82	80	70	71.4
	Minimum	62	55	54	67	62	52	46	35	35	45	30	34	34	42	35	40	27	30	40	40	41	43	35	40	42	40	46	52	50	50	55	43.8
Warrenton §§	Maximum	90	90	94	92	92	68	64	56	58	60	69	50	70	72	65	68	52	62	70	72	74	74	52	70	72	74	86	84	83	81	79	72.4
	Minimum	60	61	61	62	63	63	63	47	46	45	46	36	36	42	50	47	33	34	35	41	43	48	41	36	37	45	45	49	52	52	54	47.5
Southeast Lowlands.																																	
Caruthersville	Maximum	96	94	97	95	95	85	80	78	75	62	90	75	78	85	86	77	65	70	68	78	78	78	74	77	72	74	90	92	88	80	72	80.8
	Minimum	61	62	64	62	63	70	65	57	48	47	48	48	43	43	50	62	42	39	37	40	40	49	52	39	42	44	45	49	49	50	60	50 6
Doniphan	Maximum	90	88	89	89	88	84	72	64	55	63	76	65	69	76	79	79	74	62	67	70	74	78	67	66	75	75	80	80	79	78	77	75.1
	Minimum	52	54	54	52	55	65	58	45	46	46	42	39	32	34	48	40	28	27	28	30	30	41	48	31	33	36	38	38	40	53	64	42.8
Jackson	Maximum	93	92	94	94	94	88	80	63	57	54	75	70	70	76	76	70	65	61	69	74	75	79	69	66	80	80	80	82	82	82	82	76.5
	Minimum	53	54	54	53	52	62	59	49	42	46	46	39	33	38	49	55	39	29	30	33	44	45	42	31	41	40	38	40	42	46	52	44.4
Poplar Bluff	Maximum	90	92	93	92	88	87	76	64	61	62	79	72	72	79	82	76	66	65	70	73	76	79	69	68	78	77	82	82	83	78	77	77.0
	Minimum	55	59	60	58	58	67	60	42	45	47	45	44	36	37	50	58	41	31	34	36	49	47	49	34	40	44	41	43	46	58	63	47.6
Cairo, Ill.	Maximum	87	87	89	89	86	82	72	58	53	53	74	60	68	74	76	66	61	59	65	70	72	75	60	63	74	71	77	80	79	77	79	72.1
	Minimum	62	64	64	63	65	67	55	47	46	50	50	46	44	52	54	59	42	38	39	44	53	53	45	39	47	48	48	51	52	58	65	51.9
Ozark Plateau.																																	
Arcadia §§	Maximum	89	88	88	88	87	81	68	58	55	59	75	63	68	76	74	62	55	65	67	69	72	76	61	68	83	73	84	81	77	80	78	73.2
	Minimum	51	49	49	50	50	53	62	46	45	45	46	37	31	35	47	53	36	25	28	30	32	41	45	29	32	36	38	45	40	43	46	41.8
Birchtree	Maximum	89	90	91	89	..	84	70	62	57	57	75	68	68	78	75	70	61	65	72	70	71	78	76	69	81	80	86	81	79	82	77	[a]75.0
	Minimum	61	59	61	58	..	66	54	40	42	45	45	41	37	45	57	57	38	30	33	37	46	47	47	33	39	45	46	46	56	56	63	[a]47.7
Eldon	Maximum	88	89	91	89	90	76	67	55	57	69	71	60	73	70	68	72	56	68	72	75	75	68	62	70	80	84	88	85	73	84	80	74.4
	Minimum	71	60	56	56	57	65	48	46	44	41	44	34	37	51	42	42	32	28	34	37	44	40	37	33	40	40	43	48	49	48	60	45.4
Farmington	Maximum	89	87	92	87	90	81	73	64	56	56	72	67	68	75	70	64	60	58	64	68	64	76	64	62	72	77	81	79	79	79	75	72.5
	Minimum	54	53	55	55	56	67	53	46	45	46	47	39	34	45	54	54	30	29	30	32	44	44	44	31	43	43	45	49	46	52	62	46.0
Hollister	Maximum	90	92	94	96	94	81	68	58	60	62	80	78	75	78	80	82	76	68	66	75	78	82	75	78	80	85	89	88	89	85	78	79.4
	Minimum	60	62	60	48	52	62	55	45	44	46	40	41	36	40	42	40	40	25	30	28	30	38	40	42	30	35	36	38	40	36	60	42.6
Koshkonong	Maximum	90	90	91	88	91	86	70	61	54	62	74	65	69	75	76	68	64	60	65	67	72	77	69	65	72	77	80	79	78	80	77	73.9
	Minimum	61	62	62	59	63	67	55	47	46	47	46	44	39	46	55	58	39	34	38	40	50	50	45	38	60	46	49	50	52	55	61	50.5
Lebanon §§	Maximum	86	85	90	88	90	85	60	58	57	64	72	62	71	67	68	70	52	63	70	71	70	71	60	70	80	80	86	85	84	80	80	73 4
	Minimum	56	56	55	53	56	57	59	43	39	39	40	35	35	42	51	47	52	26	26	33	40	45	43	33	35	41	41	47	48	50	55	44.5
Mountain Grove §§	Maximum	88	90	89	89	88	83	63	57	54	64	72	65	67	72	85	70	53	65	70	70	74	77	60	68	81	77	83	79	80	82	75	73.9
	Minimum	60	61	55	57	58	60	58	45	44	41	45	38	38	39	45	54	35	26	28	40	41	49	40	35	39	46	48	51	51	55	58	46.5
Neosho	Maximum	85	90	91	91	91	88	79	63	62	67	77	73	82	78	74	75	71	65	74	75	75	81	62	82	80	86	85	84	86	85	78	78.5
	Minimum	57	50	49	47	54	62	51	41	40	33	35	35	42	49	53	46	37	21	24	29	48	40	32	30	39	[illegible]	44	42	41	46	56	43.1
Rolla	Maximum	90	91	91	91	87	84	66	58	58	63	72	71	71	70	66	68	63	55	70	71	70	79	68	68	79	78	85	87	82	82	79	74.6
	Minimum	64	58	58	58	62	66	52	47	44	44	42	38	39	50	53	51	34	31	32	35	33	46	41	35	46	44	51	50	48	55	62	47.4
Springfield	Maximum	83	84	86	86	85	78	64	52	56	61	71	60	69	72	69	69	51	61	67	67	70	76	57	68	78	78	82	80	79	80	75	71.4
	Minimum	61	64	64	63	66	64	51	46	43	42	46	40	45	52	54	42	36	32	41	46	52	50	40	39	48	50	55	55	58	57	64	50.5
Southwest Plain.																																	
Amoret	Maximum	78	83	85	88	88	87	68	56	60	68	72	65	76	70	67	72	56	66	70	71	71	63	58	72	80	84	85	84	81	77	67	73.2
	Minimum	60	55	56	55	52	61	51	43	37	36	42	38	34	42	48	45	29	29	34	33	45	41	35	35	40	40	45	47	50	49	53	43.9
Appleton City	Maximum	83	85	89	88	88	84	68	58	60	68	73	62	74	67	63	72	56	65	70	72	71	71	59	72	80	84	85	83	84	82	77	74.0
	Minimum	62	60	60	60	59	68	52	47	41	41	47	36	45	55	51	44	33	31	36	38	45	46	39	31	43	44	48	50	54	54	59	47.8
Clinton	Maximum	83	88	91	90	89	87	75	60	60	68	75	64	73	75	62	72	56	65	69	60	62	62	60	59	65	72	75	75	73	69	69	71.1
	Minimum	63	65	68	58	59	66	53	50	42	40	45	37	45	55	52	46	32	30	35	36	46	45	38	39	43	45	50	55	55	54	50	48.3
Harrisonville §§	Maximum	76	86	88	89	86	85	63	60	62	68	75	53	75	59	66	74	52	65	70	73	58	59	74	75	82	85	82	80	70	78	66	72.1
	Minimum	63	60	63	59	58	60	52	46	39	39	42	33	34	48	49	46	29	30	32	41	45	46	36	37	40	44	44	51	51	58	56	46.2
Lamar §§	Maximum	87	89	91	94	92	87	63	53	63	71	78	65	78	75	69	76	59	68	75	76	76	81	65	73	84	89	87	86	85	86	78	77.4
	Minimum	57	54	54	56	56	64	52	42	39	36	39	37	45	50	52	41	33	25	30	34	48	45	37	32	49	44	46	48	49	52	56	45.2
Lamonte	Maximum	84	90	92	91	91	76	68	54	61	67	72	62	74	64	60	73	55	69	74	76	77	58	59	72	80	84	88	81	85	85	77	74.3
	Minimum	59	59	55	57	60	64	50	48	37	39	43	32	40	52	50	43	28	28	36	36	40	43	36	36	41	45	45	52	54	53	58	45.8
Marshall	Maximum	82	80	89	88	88	78	69	60	62	69	73	58	72	69	60	70	63	67	72	71	60	57	69	72	73	80	81	80	80	79	77	72.6
	Minimum	59	64	67	54	65	64	53	47	38	39	47	30	39	54	51	44	29	29	34	39	40	35	35	40	39	51	41	50	45	48	53	45.9
Nevada	Maximum	80	84	86	88	87	85	72	54	59	66	71	61	75	65	63	71	54	63	68	72	71	75	58	72	80	84	84	83	82	80	70	73 0
	Minimum	61	54	54	60	61	68	51	44	39	38	43	36	45	52	50	40	32	27	32	35	49	46	36	36	46	46	52	50	52	50	56	46.5
Warrensburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warsaw	Maximum	83	86	88	91	89	84	71	71	58	64	72	63	74	72	60	70	59	65	72	74	74	72	70	72	82	85	87	83	85	87	80	75.6
	Minimum	58	50	52	51	54	68	53	48	39	38	41	34	41	50	54	45	33	36	30	31	39	37	38	32	41	39	40	42	45	48	60	44.1
Northwest Plateau.																																	
Chillicothe §§	Maximum	81	85	89	87	86	82	63	55	61	61	68	59	71	56	65	72	53	67	73	75	73	58	57	73	72	77	86	83	83	79	72	71.7
	Minimum	57	55	52	54	55	60	53	47	37	35	42	30	30	48	34	39	28	28	35	39	37	39	36	37	40	43	42	48	48	50	49	42.8
Grant City	Maximum	78	84	85	86	87	87	78	63	65	70	66	56	69	68	68	68	54	66	73	74	71	61	58	74	73	76	84	81	79	72	66	72.3
	Minimum	58	55	58	56	57	64	51	46	37	38	45	29	43	42	38	40	25	30	35	43	50	45	32	40	46	41	46	55	52	52	53	45.3
Kansas City	Maximum	75	81	87	87	87	86	63	54	61	68	68	55	74	64	65	69	51	66	70	72	70	59	56	73	76	81	85	82	79	71	61	70.8
	Minimum	65	62	64	67	64	61	51	46	43	45	47	37	48	49	45	38	34	41	46	50	52	47	40	44	50	48	57	58	55	57	54	50.5
Kidder §§	Maximum	82	87	77	76	74	76	67	55	64	69	68	60	71	55	66	76	72	67	73	76	73	56	56	72	76	71	76	81	80	81	67	71.0
	Minimum	58	55	56	57	58	59	52	46	37	36	40	28	34	48	36	37	26	29	32	40	42	45	34	34	41	41	42	41	50	50	50	43.0
Lexington §§	Maximum	80	92	93	94	93	82	70	58	69	77	78	68	76	64	67	82	63	78	80	85	74	59	59	73	75	78	86	83	82	80	74	76.5
	Minimum	62	56	57	57	57	64	52	49	39	38	45	34	43	52	50	43	30	34	34	37	39	43	37	39	48	43	47	53	53	53	59	46.7
Maryville	Maximum	74	80	83	85	85	86	82	55	61	68	63	55	67	66	65	67	53	64	70	73	70	60	55	74	72	74	84	82	78	68	62	70.4
	Minimum	57	54	60	61	54	62	46	45	37	37	46	29	44	47	46	39	26	30	37	45	42	47	34	41	45	46	49	59	52	53	53	45.7
Oregon	Maximum	73	78	86	83	84	85	65	58	58	65	64	54	69	66	63	68	48	60	66	70	68	59	50	72	70	71	80	81	52	66	60	68.1
	Minimum	59	57	62	61	61	65	52	45	37	40	45	31	47	47	41	40	28	33	40	47	46	44	34	41	45	45	52	59	57	55	53	47.5
St. Joseph	Maximum	77	82	87	88	89	90	65	53	61	69	66	57	71	58	66	68	52	67	72	74	72	55	57	76	75	77	86	83	80	69	61	71.1
	Minimum	60	55	58	64	64	59	48	46	39	38	45	33	47	46	39	36	30	35	42	47	48	44	38	45	45	47	50	61	57	56	54	47.6
Trenton	Maximum	79	80	80	82	82	80	63	56	59	64	65	53	58	62	61	67	49	59	65	67	68	55	53	69	69	68	80	76	75	72	76	67.5
	Minimum	60	58	57	60	59	60	54	48	39	49	46	32	41	48	38	40	30	32	40	41	41	45	42	40	46	42	47	52	51	54	53	46.6

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVI. COLUMBIA, MO., NOVEMBER, 1922. No. 11.

GENERAL SUMMARY.

In Missouri nearly the whole month of November was mild and pleasant. There were more bright, sunshiny days than usual, and the wind movement differed only slightly from normal. Many of the afternoons during the first week were summer-like in warmth; and there were but few days during the month that called for heavy clothing. The weather of both October and November, about 61 days, was of considerable economic value to the people of Missouri. The demands for fuel were light; live stock did well on pasture, and much farm work as well as a large amount of house building was done.

The month's total precipitation was moderate to large, but fell on about 7 or 8 days, and these were largely confined to the first half of the month. The Grand River, following quite heavy rains from the 11th to the 13th, went out of banks, flooding the lowlands for a short time, but the resulting damage was relatively small. The Missouri River and most of its tributaries remained well within banks.

Winter wheat stooled fairly well and the condition and progress of the crop at the end of the month was satisfactory. Cribbing corn was completed in most sections. Pastures furnished good grazing and live stock entered the winter in good condition.

TEMPERATURE.

The monthly mean for the State, based upon the records of 69 staitons, was 47.8°, or 2.9° above the normal, as determined from 66 stations having records for 10 years or more. It was the warmest November since 1916. The excess warmth was evenly distributed over all sections, ranging from about 2° a day in the Ozark Plateau and southwestern plain to slightly more than 3° in the other sections. Warm and cool spells alternated quite regularly, the former persisting for several days to a week, while the latter, as a rule, covered about two or three days. There was no very cold weather, the 21st, and 25th being the coldest days, when the minima ranged from about 16° to 26°. During the first three or four days the afternoon temperatures ranged between 70° and 80° quite generally.

PRECIPITATION.

The average precipitation for the State, 87 stations reporting, was 3.82 inches. The departure from the normal for 81 stations having 10 or more years' record was plus 1.45 inches. The precipitation was favorably distributed. save in parts of the northwest plateau where there was rather too much. All sections received amounts greater than normal, the southeastern lowlands being less pronounced in this respect. Most of the precipitation fell during the first 15 days. Though the precipitation was considerably more than usual, there were but 7 rainy days, and but 8 cloudy days. Altogether it was favorable for outdoor occupations. The greatest monthly fall was 6.75 inches, at Dean, McDonald County. The greatest 24-hour fall was 3.40 inches, at Palmyra on the 12th. The Grand River was in flood following the rains of the 11th, 12th, and 13th, but no extensive damage was reported.

Snow flurries fell on the 26th, confined to the eastern part of the State, from about Pike to Mississippi County.

WIND.

The prevailing winds were from the southwest. The monthly movement, 8 stations equipped with anemometers reporting, was 7,363 miles. The average hourly velocity was 10 miles, a little above the monthly normal. Brisk to strong winds occurred on the 1st, 5th, and 27th.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well selected stations equipped with sunshine recorders reporting, was 186. This is about 62 per cent of the possible, and about 5 per cent more than normal.

MISCELLANEOUS PHENOMENA.

Fog, dense.---3rd, 9th, and 21st.
Halos, solar.---3rd, 9th, 16th, 23rd, 25th, and 26th.
Halos, lunar.---2nd, 29th, and 30th.
Thunderstorms.---1st, 5th, 6th, 11th, 12th, and 13th.

OBSERVERS' REMARKS.

Downing.---The remarkably mild weather of the month has caused a great saving of fuel and also of feed for live stock.

Kirksville.---The ground was frozen several times during the month but not during the last week.

Macon.---Corn mostly all in and quality fair and good. Weather all month was wonderful; slight rain helped materiallly.

St. Catherine.---November was very nice for general fall work.

Warrenton.---First snowfall was on the 26th; only a trace. Generally fine weather.

Farmington.---Fine fall weather throughout.

Lockwood.---A very open month with good rains. Wheat is looking good and blue grass pastures are good. Corn shucking well advanced. Conditions for plowing are good.

Appleton City.---Roses blooming out of doors during the month. Month very favorable for out door work. Roads dusty first part of month.

Clinton.---Very mild November.

Lamonte.---Wheat looks good. Farmers are pretty well caught up with their work. Ninety per cent of corn in crib.

Warsaw.---The month was ideal for farm work and all classes are far advanced. Wheat looking fine; but acreage is small. Corn mostly gatherered and good quality.

Avalon.---Very favorable for the farmers. Wheat doing fine; pastures still fair. Corn all gathered; good crop.

Chillicothe.---Grand River out of banks.

Tarkio.---Month characterized by mild and pleasant weather.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	30.10	81	67	187	62	6,519	9.1	34	nw.	27
Hannibal	30.10	78	..	...	..	6,876	9.6	31	s.	1
Kansas City	30.11	76	61	221	73	8,426	11.7	48	nw.	27
St. Joseph	30 08	79	63	190	64	6,934	9.6	37	nw.	27
St. Louis	30.13	76	62	178	59	9,784	13.6	44	s.	5
Springfield	30.14	78	57	181	59	7,874	10.9	38	sw.	1
Cairo, Ill	30.16	80	60	...	..	6,118	8.5	37	nw.	27
Keokuk, Iowa	30.12	78	68	159	53	6,372	8.8	36	s.	5

COMPARATIVE DATA FOR NOVEMBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	41 6	−2.0	87	15	3.26	+0.94	......	.....	11	....	.....	.....
1889	39.9	−3.7	73	8	3.43	+1.11	......	.....	7	....	.....	.....
1890	46.5	+2.9	80	20	2.31	−0.01	......	.....	5	....	.....	.....
1891	39.6	−4.0	82	− 2	3.60	+1.28	......	.....	5	....	.....	.....
1892	40.1	−3.5	79	9	2.60	+0.28	......	1.0	6	11	7	12
1893	40.9	−2.7	79	− 1	1.54	−0.73	4.86	0.3	4	14	9	7
1894	41.0	−2.6	80	3	1.68	−0.74	2.20	T.	4	15	9	6
1895	41.6	−2.0	82	2	3.37	+1.05	2.98	3.2	8	10	7	13
1896	42.3	−1.3	82	5	2.18	−0.14	4.00	0.2	6	11	7	12
1897	43.4	−0.2	82	− 3	2.40	+0.08	3.39	T.	6	13	8	9
1898	39.9	−3.7	79	− 8	2.28	−0.04	2.75	2.3	6	14	8	8
1899	49.5	+5.9	82	16	1.90	−0.42	2.66	0.2	7	11	9	10
1900	43.7	+0.1	84	7	2.58	+0.26	4.55	0.2	6	15	7	8
1901	43.6	0.0	84	9	1.38	−0.94	1.90	0.3	4	17	7	6
1902	50.1	+6.5	85	18	3.62	+1.20	2.14	0.4	9	8	9	13
1903	40.9	−2.7	79	2	1.24	−1.08	2.44	1.1	5	13	8	9
1904	46.3	+2.7	83	11	0.22	−2.10	0.68	T.	2	21	5	4
1905	45.8	+2.2	83	2	1.94	−0.38	2.49	T.	6	18	6	6
1906	42.5	−1.1	88	− 3	2.60	+0.28	3.60	5.0	8	12	6	12
1907	43.8	+0.2	88	5	2.52	+0.20	3.00	T.	4	19	4	7
1908	47.6	+4.0	87	9	4.14	−1.82	4.00	0.2	8	15	7	8
1909	53.6	+10.0	87	11	4 43	+2.11	6.18	0.4	8	12	7	11
1910	42.0	−1.6	83	11	0 38	−1.94	0.70	0.1	3	15	8	7
1911	39.1	−4.5	93	− 3	2.55	+0.23	2.15	1.1	7	13	6	11
1912	45.9	+2.3	88	12	1.52	−0.80	2.37	0.1	3	20	5	5
1913	51.7	+7.4	80	11	2.73	+0.35	2.50	T.	7	10	8	12
1914	48.6	+4.0	89	2	0.65	−1.84	1.90	0.1	3	19	6	5
1915	49.5	+4.9	87	12	2.76	+0.33	2.62	0.1	5	16	7	7
1916	49.6	+5.9	85	3	2.49	+0.14	2.53	0.1	4	19	4	7
1917	46.1	+1.5	80	8	1.05	−1.46	3.26	T.	3	14	5	11
1918	44.9	+0.5	85	12	3.18	+0.79	4.60	1 2	6	15	4	11
1919	42 2	−2.2	78	2	3.62	+1.40	3.36	1.0	6	15	5	10
1920	40.9	−3.5	82	6	1.21	−1.09	1.89	T.	6	12	6	12
1921	45.6	+1 2	84	10	2.82	+0.40	4.29	0.4	5	13	7	10
1922	47.8	+2.9	84	15	3.82	+1.45	3.40	T.	7	16	6	8

Climatological Data for November, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	47.0	+ 5.8	77	5	21	26	36	4.51	+2.55	1.15	0	10	16	0	14	se.	O. K. Benecke
Clifton Hill	Randolph	731	22	46.8	+ 3.1	75	3	19	25†	34	2.83	+1.10	0.97	0	8	14	7	9	......	Dr. A. J. Bradsher
Columbia	Boone	748	31	47.4	+ 3.1	73	3	22	25	27	2.37	+0.06	1.15	0	8	14	8	8	sw.	U. S. Weather Bureau
Downing	Schuyler	878	11	48.4	......	68	4†	17	25	29	3.47	+1.78	1.10	0	10	6	16	8	n.	E. E. St. Clair
Fayette	Howard	661	38	43.8	+ 1.2	72	3	17	25	32	3.10	+1.05	1.30	0	5	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	29	47.6	+ 3.1	75	3	21	25	34	1.11	−1.29	0.36	0	7	14	10	6	w.	Westminster College
Gorin	Scotland	700	34	....	......	..	..	..	..	..	3.37	+1.41	0.78	0	9	10	3	17	sw.	J. W. Pulliam
Hannibal	Marion	534	37	46.0	+ 5.5	68	3	24	25	24	3.36	+1.41	1.16	0	10	12	10	8	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	47.0	+ 2.9	75	11	22	25	35	2.68	+0 41	0.95	0	7	22	2	6	n.	Miss Emma Swift
Kirksville	Adair	969	39	45.8^{a}	+ 5.5	69	5	18	25	31	3.26	+1.51	1.17	0	7	16^{a}	0^{a}	13^{a}	sw.	Prof. J. S. Stokes
Louisiana	Pike	469	40	47.2	+ 3.1	78	1	20	25†	33	4.27	+2.06	1.45	T.	11	17	5	8	w.	J. T. Farrell
Macon	Macon	875	28	43.8	− 0.4	70	3†	18	25	32	2.55	+0.60	0.75	0	8	15	7	8	se.	W. C. Brown
Mexico	Audrain	800	43	45.4	+ 2.3	73	11	19	25	32	3.24	+0.84	0.95	0	8	18	3	9	w.	Mrs. Abbie Snoddy
Palmyra	Marion	652	22	44.4	+ 1.3	72	1	20	25†	37	6.64	+4.33	3.40	0	7	16	3	11	nw.	W. B. Markell
St. Catherine	Linn	800	12	46.1	+ 3.1	72	3	18	25	29	3.07	+1.44	0.95	0	10	12	7	11	sw.	L. D. Baker
St. Charles	St. Charles	456	43	48.8	+ 3.5	77	1†	21	25	30	2.11	−0.53	1.46	T.	3	16	5	9	nw.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	48.8	+ 3.7	73	5	25	25	24	2.36	−0.52	0.64	T.	10	11	10	9	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	48.1	+ 1.6	73	5	25	25	23	2.82	+0.51	1.00	T.	9	14	4	12	se.	St. Louis University
Shelbina	Shelby	779	28	.. .	......	..	..	..	..	..	3.70	+1.61	1.55	0	5	..	..	..	...	S. G. Parsons
Steffenville	Lewis	650	28	48.0	+ 4.2	75	1	23	21	30	2.43	+0.50	0.80	0	8	12	12	6	w.	Frank Hall
Unionville	Putnam	1,062	28	44.6	+ 4.6	68	4	16	25	30	4.60	+2.91	2.75	0	9	14	3	13	sw.	Geo. W. Davis
Warrenton	Warren	816	31	46.1	+ 3.2	72	11	20	25†	34	3.32	+0.68	1.36	T.	6	18	5	7	nw.	Prof. A. W. Eberling
Keokuk, Iowa	Lee, Ia.	574	49	45.4	+ 4.3	65	3	22	25	25	3.38	+1.53	0.99	0	11	9	13	8	sw.	U. S. Weather Bureau
Section means and	extremes	.....	..	46.5	+ 3.2	78	1	16	25	36	3.24	+1.13	3.40	T.	8	14	6	10	sw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	55.0	+ 5.1	82	2†	25	26	36	3.84	−0.01	1.50	0	6	21	5	4	ne.	H. E. Averill
Doniphan	Ripley	344	17	48.8	+ 1.2	78	5	21	26	40	6.49	+3.37	2.97	0	8	20	4	6	n.	W. W. Martin
Jackson	Cape Girardeau	428	31	49.4	+ 2.7	78	2	22	25†	41	2.71	−0 42	1.04	T.	5	11	8	11	n.	John G. Putz
Marble Hill	Bollinger	470	27	49.3	+ 4.9	79	2	21	21†	34	3.74	+0.57	1.04	T.	5	19	4	7	n.	R. A. DeWitt
Parma	New Madrid	281	..	....	......	..	..	..	..	..	3.81	......	1.70	0	5	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	11	....	......	..	..	..	..	..	3.84	+1.61	1.20	0	5	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	339	17	51.8	+ 4.4	80	2	23	26	40	4.10	+0.84	1.42	0	7	19	5	6	nw.	Rev. John H. Gallaher.
Vanduser	Scott	304	..	....	......	..	..	..	..	..	3.40	−0 25	1.14	0	5	..	..	..	....	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	50.7	+ 3.4	75	2	27	26	27	1.98	−2.04	0.93	T.	9	11	9	10	s.	U. S. Weather Bureau
Section means and	extremes	....	..	50.8	+ 3.6	82	2†	21	21†	41	3.77	+0.46	2.97	0	6	17	6	8	n.	
Ozark Plateau.																				
Arcadia	Iron	926	43	47.0	+ 3.0	78	2	20	21	35	3 24	−0.38	1.00	T.	6	15	5	10	w.	Arcadia College
Birchtree	Shannon	1,000	28	48.6	+ 2.1	80	3	22	26	39	4.02	+1.13	1.06	0	8	16	8	6	s.	V. H. Kirkendall
Bolivar††	Polk	1,071	32	48.0	+ 1.2	87	3	24	20†	38	1.49	+1 96	1.30	0	6	21	3	9	w.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	....	......	82	3	18	26†	..	6.75	+3.71	1.78	0	6	22^{a}	2^{a}	5^{a}	n.	H. E. Dean
Eldon	Miller	934	22	49.2	+ 4.0	80	3	24	21	39	2.65	+0.44	1.05	0	5	9	12	9	s.	E. H. Shepherd
Farmington	St. Francois	918	24	47.8	+ 3.5	75	3	21	25	32	2.71	−1.25	0.76	T.	9	18	5	7	sw.	Robert Forsyth
Gano ††	Dent	1,250	20	46.3	− 0.5	75	3	19	25	36	3.28	+0.97	1.22	0	7	21	0	9	nw.	A. C. Leach
Goodland	Iron	1,000	28	47.1	+ 2.5	75	2†	15	26	38	3 04	+0.15	1.25	0	5	19	2	9	s.	F. M. Adams
Greenville	Wayne	381	..	48.0	......	79	2	19	26	47	3.95	......	1.66	0	8	19	2	9	n.	J. J. Amen.
Hollister	Taney	735	18	51.6	+ 3.4	84	2†	20	21†	45	4.65	+1.87	1.05	0	6	19	7	4	sw	W. P. Chapmann
Houston ††	Texas	1,280	29	48.6	+ 2.1	79	3	20	26	38	3.49	+1.03	0.90	0	7	17	6	7	sw.	Walter T. Beard
Koshkonong	Oregon	958	20	49.8	+ 0 4	76	2	26	21†	30	3.74	+0.72	1.30	0	7	18	4	8	w.	R. M. Hitt
Lebanon	Laclede	1,265	34	47.8	+ 1.8	84	4	19	25†	41	2.83	+0.29	1.15	0	8	18	8	4	n.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	48.4	+ 0.7	75	11	26	25	31	4.78	+2.57	2.23	0	5	20	2	8	se	C. S. Crow
Mountain Grove	Wright	1,463	25	46.7	+ 0.1	76	3	23	25†	36	3.14	+0.71	0.65	0	7	16	6	8	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	49.6	+ 2.4	81	4	23	20†	42	5.55	+2.49	1.48	0	6	21	2	7	nw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	48.8	+ 3.9	78	3	21	25	32	3.21	+0.90	0.82	0	6	22	3	5	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	15	49.4	+ 2.2	81	3	25	20	35	5 05	+2.69	1 55	0	8	16	7	7	nw	Floyd E. Fawver
Seymour	Webster	1,642	16	47.0	+ 0.9	75	3	22	26	35	2.88	+0.55	0.75	0	7	18	6	6	nw.	Ira H. Hailey
Springfield	Greene	1,350	42	48.1	+ 3.7	75	3	26	20	28	4.14	+1.50	1.40	0	6	14	11	5	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	48.3	+ 2.1	84	2†	15	26	47	3.85	+1.12	2.23	0	7	18	5	7	nw.	
Southwest Plain.																				
Amoret	Bates	831	15	47.2	+ 1.7	77	4	22	20†	32	5.02	+3.36	2.07	0	7	13	8	9	nw.	Darby Fruit Farm
Appleton City	St. Clair	853	29	48.6	+ 2.5	77	4	24	25	30	3.91	+1.78	1.39	0	9	20	4	6	sw.	W. G. Bigelow
Clinton	Henry	765	34	47.1	− 0.2	69	11†	25	25	28	3.85	+1.97	1.30	0	5	21	3	6	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	46	45.4	+ 3.0	74	3	22	25	40	3.65	+1.70	1.00	0	7	15	5	10	nw.	John H. Patterson
Lamar	Barton	980	40	47.8	+ 1.2	79	4	22	20	40	4.42	+2.18	1.60	0	6	17	6	7	se.	Joe W. Springer
Lamonte	Pettis	867	35	48.3	+ 3.9	80	3	20	25	34	2.77	+0.87	1.07	0	8	21	7	2	sw.	J. E. Wheeler
Marshall	Saline	779	32	47.1	+ 1.5	75	3	23	21	31	4.66	+2.58	1.35	0	7	14	11	5	nw.	Dr. W. H. Black
Nevada	Vernon	862	30	47.9	+ 3.5	78	4	24	19†	32	4.44	+2.56	1.55	0	5	18	5	7	s.	George A. Kaupp
Warsaw	Benton	687	26	47.2	− 0.3	79	3	20	25	36	4.26	+1.85	1.58	0	7	16	10	4	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	47.4	+ 1.9	80	3	20	25	40	4.09	+2.07	2.07	0	7	17	7	6	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	24	47.5	+ 3.7	78	3	25	21	33	3.45	+1.52	1.25	0	6	13	9	8	....	F. G. Ashbaugh
Bethany	Harrison	916	30	45.6^{a}	+ 2.2	76	30	16	25	44	5.65	+4.06	2.00	0	9	15^{a}	7^{a}	7^{a}	sw.	M. H. Moulton
Chillicothe	Livingston	779	13	45.4	+ 3.0	76	3	19	25	30	3.68	+1.20	1.27	0	7	18	4	8	e.	Wm. J. Olenhouse
Conception	Nodaway	980	37	44.9	+ 3.5	75	3	20	25	31	3.80	+2.52	1.14	0	6	12	10	8	sw	Fr. Adelhelm Hess
Edgerton	Platte	856	9	43.4^{d}	......	65	4	18	25	22	3.14	+1.89	0.85	0	8	18	4	8	w.	Fred L. Stiff
Grant City	Worth	1,134	30	45.8	+ 3.0	74	3	19	26	31	4.58	+3.12	1.60	0	5	15	9	6	se	B. F. Locke
Kansas City	Jackson	963	32	47.8	+ 6.3	73	4	25	25	23	3.17	+1.32	1.30	0	10	18	6	6	sw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	34	43.9	+ 1.6	76	3†	21	25†	32	5.59	+3.89	2.28	0	7	17	4	9	nw.	Linn Terry
Lexington	Lafayette	688	39	48.5	+ 4.5	76	4	21	25	35	3.26	+1.41	0.80	0	7	15	7	8	se.	Edwin G. Loomis
Liberty	Clay	859	31	47.0	+ 3.3	77	3	21	25	32	3.15	+1.45	0.84	0	8	15	11	4	sw.	James H. Harris
Maryville	Nodaway	1,169	27	45.4	+ 6 4	74	3	20	25	31	4.91	+3.43	2.27	0	10	15	0	15	s.	J. R. Brink
Oregon	Holt	1,048	66	44.7	+ 4.5	69	4	21	25	27	3.64	+1.96	2.12	0	7	18	3	9	sw.	Tom Curry
St. Joseph	Buchanan	967	49	46.3	+ 1.9	74	3	24	25	29	4.99	+3.24	2.96	0	10	17	6	7	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	28	44 7	+ 4.6	76	2	20	25	32	4.54	+3.24	1.45	0	8	15	3	12	se.	Albert Volker
Trenton	Grundy	822	26	46.2	+ 3.6	69	3	22	25	23	4.58	+2.92	2.95	0	9	16	6	8	w.	W. H. Estes
Section means and	extremes	.....	..	45.8	+ 3.7	78	3	16	25	44	4.14	+2.48	2.96	0	8	16	6	8	sw.	
State means and	extremes	.....	..	47.8	+ 2.9	84	2†	15	26	47	3.82	+1.45	3.40	0	7	16	6	8	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for November, 1922.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	.17	.31		T.	.18	.18					T.	1.10	.87	.05				.30														3.16
Brunswick‖	Grand	1.05	.30		.18	.70						.08	.54	1.15	.10				.34												.07		4.51
Clifton Hill	Chariton	.51			.10							.50	.47	.97				.18	.06												.04		2.83
Columbia***	Missouri	.39				.22						.14	.50	.79	.01			.26										T.			.06		2.37
Downing	Mississippi	.40			.25	.35						.18	1.10	.97				.10	05									.02			.05		3.47
Fayette‖	Missouri	.63				.46						.43	1.30					.28															3.10
Fulton	....do											.05	.27	.36	.11			.25	.06												.01		1.11
Gorin	Mississippi	78			.18	.32						.27	.73	.78				.21										.05			.05		3.37
Hannibal***	....do	.99			T.	.29						.50	.22	.95	.09			.20	.01									.04			.07		3.36
Hermann‖	Missouri	.68	.76				.20							.28	.80				.28														3.00
Jefferson City‖	....do	.75	.06				.20						.32	.95	.10				.30														2.68
Kirksville	Mississippi	.18			.15	.22						.36	1.08	1.17				.10															3.26
Louisiana	....do	1.45	.10			.58						.18	.34	.53	.28			.05	.68								T.	.05			.03		4.27
Macon ‖	Chariton	.23	.23		.27	.26							.75	.55	.05				.21												T.		2.55
Mexico ‖	Mississippi	.75	.35				.39					.09	.36	.95	.09				.26												T.		3.24
Pacific‖	Meramec	1.09	.23				.26					.01		.17	.79	.01			.48										.04				3.08
Palmyra‖	Mississippi	1.21	.65		T.		.15					T.	3.40	.96					.23										.04				6.64
St. Catherine	Grand	.50	.02		.20	.32						.13	.95	.59				.15	.15									T.			.06		3.07
St Charles	Missouri	1.46				.30							T.	T.					.35								T.	T.			T.		2.11
St. Louis (1)***	Mississippi	.48				.36						T.	.02	.50	.17			.45	.04								.01	.03			.30		2.36
St. Louis (2)	....do	.34				.32							.05	1.00	.16			.52	.03								T.	.05			.35		2 82
Shelbina	....do	.70				.30							1.55	.85				.30															3.70
Steffenville	....do	.80	.05	.01		.25						.27		.80				.15	.10												T.		2.43
Union‖	Meramec	.64	.48				.30							.42	.96				.37										.03				3.20
Unionville	Chariton	.50			.45	.35						.30	1.75	1.00				.10	.10	.05											T.		4.60
Valley Park‖	Meramec	.86	.46				.44					T.		.33	.98				.51									T.	.05				3.63
Warrenton ‖	Mississippi	.56	.75				.23							.20	1.36				.22									T.	T.				3.32
Keokuk, Ia.***	....do	.84	.02		.10	.19						.73	.41	.81				.16	.02									.05			.05		3.38
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi	.06	.30				.70							.26	1.00	.25			.50														3.07
Caruthersville	....do	.52					1.05						T.	.15	.50	.12		T.	1.50														3.84
Doniphan	Black	.73				.80	.35						.72	2.97	27			.35	.30														6.49
Jackson	Mississippi	.35					.38							.21	1.04	.73											T.						2.71
Marble Hill	....do	.35					.88							.65	1.04				.82								T.						3.74
New Madrid‖	....do	.20	.35				.58							.01	.63	.12			.83														2.72
Parma	St. Francis	.36					.45							.05	1.70				1.25														3.81
Patton (near)	Mississippi	.70					1.20							.40	.94			.60															3.84
Poplar Bluff	Black	.48					1.42						.05	1.02	.44			.01	.68														4.10
Vanduser	Mississippi	.36					1.14							.17	1.00			.73															3.40
Cairo, Ill.***	....do	.23				.24	.06						.02	.07	.39	T.		.40	.53								T	.04			T.		1.98
Ozark Plateau.																																	
Arcadia ‖	St. Francis	1.00	.10				.62							.08	.95	.08			.41									T.	T.				3.24
Birchtree	Black	.72				.85							1.06	.26			.34	.26												.08	.45		4.02
Bolivar	Osage	.90				1.19							.34	1.30				.65													.11		4.49
Dean	Neosho	1.09				1.78							.83	1.75				1.17													.13		6.75
Eldon	Missouri	.44											.40	1.05				.38													.38		2.65
Farmington	St. Francis	.57				.46	.02						.03	.76	.44			.19	.22									.02			T.		2.71
Gano	Meramec	1.22				.52							.17	.67	.33			.16	.21												T.		3.28
Goodland	Black.	1.25				.31								.65	.35				.48														3.04
Greenville ‖	St. Francis	.33				.07	.24						.34	1.66	.60			.01	.67									T.			T.		3.95
Hollister	White					.80								1.05	.30			.50	1.00												1.00		4.65
Houston	Gasconade	.45				.90							.48	.65	.26			.25													.50		3.49
Jerome ‖	....do	.63	.12				.30							.92	.59				.35														2.91
Koshkonong	Black	.72				.65							.18	1.30	.23			.38	.28												T.		3.74
Lebanon ‖	Osage	.35	.15			.03	.40						.05	1.15	.10				.60														2.83
Lockwood	....do	.73				.55							.45	2.23				.82															4.78
Mountain Grove‖	White	.63	.03				.63							.65	.55	.02			.63												T.		3.14
Neosho	Neosho	.97				1.12							.80	1.48				.98													.20		5.55
Rolla	Meramec	.10				.52							.82	.65				.44													.68		3.21
Seligman	Neosho	.28		T.	T.	1.17							.83	1.55	.08			1.04	.06												.04		5.05
Seymour	White	.55				.44							.32	.58				.75	.17												.07		2.88
Springfield***	....do	.76				.60							.60	.88	T.			.71													.59		4.14
Steelville‖	Meramec	.85	.20				.30							.29	.81	.01			.41														2.87
Tuscumbia ‖	Osage	.27	.19				.45							1.28	.10				.29														2.58
Southwest Plain.																																	
Amoret	Osage	2.07			.04	.93							.81	.83				.31	.03												T.		5.02
Appleton City	....do	1.39	.01			.60						.01	.95	.64				.28	.02												.01		3.91
Clinton	....do	1.30		.50									.90	.80				.35															3.85
Harrisonville‖	....do	1.00	.03		.02	.60							.79	.90					.31														3.65
Lamar ‖	Neosho	1.60	.11		T.	.71							.64	.88					.48														4.42
Lamonte	Missouri	.48			.05	.45						.03	63					1.07	.02												.04		2.77
Marshall	....do	1.04			.70	.50						T.	.80	1.35				.25	T.												.02		4.66
Nevada	Osage	1.55				.82							.69	.86				.52													T.		4.44
Osceola‖	....do	.32	.15		05	.64							.84	1.14						.45													3.59
Warsaw	....do	.95			T.	.58							.62	1.58				.40	.08												.05		4.26
Waverly ‖	Missouri	1.06	.06		.14	.46	T.						.71	.92	T.				.29												T.		3.64
Northwest Plateau.																																	
Avalon	Grand	.50		.33	.27								1.25	.80				.30															3.45
Bethany	....do	1.65			.18	.50						.25	2.00	.92				05	.09									T.			.01		5.65
Chillicothe ‖	....do.	.85	.10		.15	.23						T.	1.27	.88	T.				.20														3.68
Conception	Missouri	.88			.30	.28				T.		.96	1.14	.24				T.													T.		3.80
Edgerton	....do	.69			.24	.43						.30	.85	.41				.08	.14												T.		3.14
Grant City	Grand	.98				.85						1.60	.65	.50																			4.58
Kansas City***	Missouri	.61		.06	.10	.47						.23	1.29	.09				.25	.04												.03		3.17
Kidder ‖	Grand	1.34	.11		.16	.47							2.28	.83					.40														5.59
Lexington	Missouri	.75	.03		.16	.50							.75	.80					.27														3.26
Liberty	....do	.62			.04	.65						.60	.84					.25	.12												.03		3.15
Maryville	....do	.58	.26		.61	.43						.22	2.27	.20	.22				.05												.07		4.91
Oregon	....do	1.00			.15	.29						**	2.12						.05												.03		3.64
St. Joseph***	....do	1.17		.05	.14	.24				T.		2.27	.73	.26				.03	.08												.02		4.99
Tarkio	....do	1.45			.29	.20						1.20	1.07	.20				.03	.10												T.		4.54
Trenton	Grand	.15		.09		.22						2.95	.76	.02				.33										.04			.02		4.58

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for November, 1922.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	67	69	80	75	77	60	59	48	53	68	70	68	62	51	48	57	47	61	45	43	52	56	61	44	40	48	47	51	62	68	..	58.2
	Minimum	60	50	46	47	52	40	34	33	33	38	43	53	54	33	30	27	30	39	36	30	24	23	25	28	22	21	33	32	33	36	..	36.2
Columbia	Maximum	68	68	73	72	68	59	59	45	55	66	72	66	63	49	46	53	44	62	52	46	51	52	60	43	37	47	47	46	61	63	..	56.4
	Minimum	51	53	49	55	49	41	39	33	35	41	53	56	44	35	31	29	36	44	34	29	25	26	36	28	22	27	36	32	34	50	..	38.4
Fayette	Maximum	65	67	72	70	64	65	57	45	53	63	58	62	57	48	45	53	42	57	44	44	48	53	56	40	36	49	43	45	59	58	..	53.9
	Minimum	49	42	40	52	48	35	40	32	30	35	50	50	38	29	28	23	28	38	38	27	19	23	32	23	17	20	32	23	30	43	..	33.8
Hannibal	Maximum	66	64	68	66	65	57	56	45	54	62	57	60	62	50	40	51	45	57	49	41	48	53	58	39	37	46	40	46	57	62	..	53.4
	Minimum	52	49	44	49	51	42	37	37	32	44	52	53	46	37	30	29	36	44	37	31	28	30	36	28	24	31	33	33	35	49	..	38.6
Jefferson City §§	Maximum	67	68	73	73	67	59	60	52	59	66	75	64	60	50	45	52	47	61	49	43	50	51	62	41	37	48	48	45	62	62	..	56.5
	Minimum	58	50	45	50	56	42	36	37	33	37	40	57	58	35	31	27	29	41	39	29	22	25	30	28	22	24	36	35	33	35	..	37.4
Kirksville	Maximum	65	63	68	68	69	60	55	50	58	61	61	55	58	49	45	59	57	55	..	53	49	55	58	50	38	46	41	47	54	62	..	[a]55.5
	Minimum	51	47	40	50	50	39	34	31	35	38	50	50	47	31	28	28	35	40	..	30	23	28	38	24	18	29	32	25	31	43	..	[a]36.0
Louisiana	Maximum	78	76	70	70	68	62	62	56	52	58	63	65	63	60	54	46	50	51	57	40	48	54	60	60	48	40	45	45	53	58	..	57.1
	Minimum	48	52	40	48	57	42	38	38	28	38	52	50	53	38	32	25	33	32	38	35	24	28	38	27	20	20	35	35	32	42	..	37.3
Macon §§	Maximum	66	63	70	70	65	61	56	46	51	66	60	62	61	47	44	55	47	55	37	43	48	53	57	41	35	42	43	36	56	63	..	53.3
	Minimum	59	48	44	47	51	38	41	31	31	37	35	50	50	30	28	28	29	39	33	28	23	25	25	24	18	19	30	26	26	35	..	34.3
Mexico §§	Maximum	64	63	69	70	62	54	65	45	54	65	73	64	61	51	44	52	47	59	49	44	52	53	60	43	37	46	43	48	56	61	..	55.1
	Minimum	57	50	44	46	51	40	36	34	28	37	41	50	53	37	30	26	30	39	35	31	22	25	36	25	19	24	32	30	31	36	..	35.8
St. Catherine	Maximum	67	64	72	70	65	58	56	52	51	64	62	60	59	49	45	57	50	58	55	43	49	55	61	54	39	48	44	46	55	63	..	55.7
	Minimum	53	49	47	52	53	40	32	31	33	40	53	52	47	30	28	28	35	40	32	31	24	25	34	25	18	24	35	28	32	44	..	36.5
St. Louis (1)	Maximum	69	68	70	69	73	61	60	48	56	61	70	65	63	50	48	49	50	61	52	43	48	53	63	42	36	44	44	46	57	61	..	56.0
	Minimum	57	55	51	50	55	48	44	42	39	39	51	57	50	42	36	33	36	45	39	36	33	37	40	30	25	28	35	36	33	45	..	41.6
Unionville	Maximum	63	64	62	68	64	58	55	50	52	64	63	56	55	50	44	57	50	55	52	42	48	56	56	46	38	45	44	47	54	65	..	54.1
	Minimum	46	45	47	50	48	38	34	35	32	40	50	50	40	30	28	27	35	40	32	30	22	28	35	22	16	28	30	25	32	40	..	35.2
Warrenton §§	Maximum	70	70	70	71	71	59	59	42	57	63	72	62	60	50	44	50	48	62	48	44	52	53	61	41	39	44	43	47	60	61	..	55.8
	Minimum	60	51	46	46	49	42	39	36	33	32	38	53	54	40	32	29	29	37	40	33	26	29	30	28	20	20	27	34	29	31	..	36.4
Southeast Lowlands.																																	
Caruthersville	Maximum	75	82	81	82	81	75	75	71	63	68	72	80	72	67	62	68	65	65	68	61	67	62	65	55	43	56	65	45	60	70	..	67.4
	Minimum	69	50	49	49	57	53	42	39	48	40	45	58	62	49	46	34	38	50	42	35	31	30	29	38	28	25	35	35	29	41	..	42.5
Doniphan	Maximum	69	76	75	73	78	72	66	64	57	62	67	70	64	62	56	50	53	62	62	55	51	55	64	58	41	59	50	46	55	62	..	61 1
	Minimum	59	43	42	42	56	49	34	31	31	30	44	50	58	46	38	28	35	42	34	27	24	26	24	35	28	21	30	32	22	38	..	36.6
Jackson	Maximum	71	78	74	75	74	73	68	60	60	64	70	73	70	63	52	57	54	65	61	57	49	54	65	62	57	44	48	47	54	64	..	62.1
	Minimum	57	50	41	42	53	48	33	32	31	31	44	55	60	46	37	25	29	45	36	33	23	25	24	39	22	22	27	30	24	39	..	36.8
Poplar Bluff	Maximum	74	80	79	77	78	71	72	68	59	68	70	72	68	63	60	57	54	66	68	57	56	62	68	59	47	58	59	51	59	65	..	64.8
	Minimum	59	49	46	46	56	51	36	35	33	35	43	53	60	48	40	28	35	45	40	30	26	30	28	35	27	23	35	37	24	30	..	38.8
Cairo, Ill.	Maximum	71	75	71	72	75	64	65	59	55	62	72	73	71	62	53	51	57	62	62	45	48	53	61	50	37	46	48	45	53	65	..	59.4
	Minimum	57	53	51	49	59	51	44	40	39	38	50	58	62	47	35	32	39	50	40	36	30	35	34	31	28	27	37	34	33	42	..	42.0
Ozark Plateau.																																	
Arcadia §§	Maximum	67	78	73	72	72	67	67	59	56	62	69	66	61	46	54	53	52	66	59	50	56	60	67	47	43	52	53	48	55	60	..	59.7
	Minimum	58	49	38	40	42	43	34	33	27	29	36	49	57	43	34	23	25	36	44	31	20	21	24	30	21	22	27	33	27	31	..	34 2
Birchtree	Maximum	66	77	80	70	70	62	60	58	57	61	64	61	52	46	45	51	64	56	53	55	55	67	56	58	45	55	48	56	54	68	..	59.0
	Minimum	58	47	45	54	53	40	38	35	30	47	55	52	42	34	27	32	41	44	29	24	30	28	34	32	24	22	31	28	38	53	..	38.3
Eldon	Maximum	69	74	80	75	68	60	53	63	59	68	76	65	60	54	50	57	41	63	53	47	54	57	64	73	68	52	50	50	62	63	..	61.0
	Minimum	51	45	44	52	40	38	33	33	29	40	52	57	40	30	35	27	35	41	37	25	24	30	42	44	29	29	36	29	31	47	..	37.5
Farmington	Maximum	66	71	75	73	72	65	62	56	56	60	66	65	60	58	47	52	53	62	58	46	44	52	62	58	42	47	42	46	55	59	..	57.7
	Minimum	58	49	43	46	53	44	40	38	33	35	44	48	57	43	33	26	31	44	44	33	23	32	30	26	21	23	37	34	29	41	..	37.9
Hollister	Maximum	82	84	82	84	80	82	80	80	70	73	74	78	74	72	73	66	64	65	60	50	56	60	62	66	69	62	60	60	62	68	..	69.9
	Minimum	38	40	41	42	40	40	41	41	30	36	38	42	45	42	40	25	30	35	38	32	20	25	28	22	21	20	22	27	30	28	..	33.4
Koshkonong	Maximum	66	76	71	74	72	61	66	60	58	64	67	65	62	52	55	52	52	62	60	50	53	56	65	55	44	56	59	50	50	60	..	59.8
	Minimum	58	49	49	48	58	45	40	40	33	36	48	55	52	43	35	28	39	43	45	30	26	33	36	34	26	26	38	35	28	38	..	39.8
Lebanon §§	Maximum	65	75	80	84	77	62	63	60	61	61	71	63	68	56	53	50	48	62	52	50	55	62	65	48	53	60	51	48	61	62	..	60.9
	Minimum	50	42	42	47	49	39	35	32	31	32	40	53	53	38	28	28	34	38	36	21	23	23	30	29	19	19	35	35	[illegible]	31	..	34.8
Mountain Grove §§	Maximum	61	75	76	73	66	61	65	60	55	60	69	61	58	49	51	48	48	63	52	51	51	60	65	46	46	51	52	48	57	59	..	58.0
	Minimum	44	45	45	50	50	40	39	34	33	35	38	50	56	39	30	27	28	38	40	25	25	27	29	30	23	23	27	31	28	32	..	35.4
Neosho	Maximum	67	77	80	81	78	77	66	65	68	70	77	77	64	50	53	52	49	63	61	64	56	58	57	58	45	52	60	52	62	61	..	63.3
	Minimum	43	35	43	54	51	34	29	29	37	42	55	55	40	31	26	28	35	44	42	23	23	24	28	32	29	24	32	23	31	51	..	35.8
Rolla	Maximum	65	72	78	74	71	60	68	57	58	68	76	66	61	48	49	55	51	64	64	48	52	55	63	59	44	50	49	46	58	60	..	59.6
	Minimum	52	47	46	50	55	40	38	37	31	41	48	58	48	39	30	29	36	42	39	28	21	29	32	29	21	25	38	35	32	47	..	38.1
Springfield	Maximum	68	73	75	73	67	58	60	58	57	63	74	61	60	49	49	48	44	61	49	47	51	52	61	45	41	51	52	47	60	62	..	57.2
	Minimum	49	45	55	58	48	41	43	38	36	42	53	55	39	37	31	31	38	44	32	26	32	30	37	30	27	29	33	33	32	47	..	39.0
Southwest Plain.																																	
Amoret	Maximum	63	70	73	77	70	60	62	58	58	64	72	62	56	51	51	55	44	63	55	47	53	56	65	57	47	52	54	48	60	67	..	59.0
	Minimum	48	40	46	52	46	36	34	32	34	40	53	52	39	27	28	27	34	40	33	22	24	24	34	25	22	26	37	28	32	45	..	35.3
Appleton City	Maximum	66	71	73	77	69	63	64	55	60	62	70	67	60	52	50	54	48	62	56	45	54	55	65	57	44	52	54	50	62	63	..	59.2
	Minimum	50	42	49	59	50	38	35	36	36	43	54	56	42	30	29	29	37	42	35	26	27	27	35	28	24	28	38	30	35	48	..	38.0
Clinton	Maximum	62	62	68	68	65	62	56	56	54	60	69	69	62	46	45	48	48	58	58	40	49	49	57	57	42	45	49	45	58	62	..	55.6
	Minimum	50	45	48	57	50	40	38	35	35	43	55	57	44	32	32	29	38	42	37	26	28	29	34	29	25	30	40	30	35	45	..	38.6
Harrisonville §§	Maximum	57	69	74	60	57	59	61	50	53	58	59	57	45	51	53	55	46	65	49	46	54	57	64	47	44	51	51	49	61	65	..	55 6
	Minimum	55	41	43	52	49	37	35	31	35	35	43	54	44	28	29	30	35	40	35	23	24	26	24	27	22	24	38	30	31	35	..	35.2
Lamar §§	Maximum	57	77	78	79	67	61	66	63	62	65	76	66	44	53	54	56	51	62	52	52	56	59	65	48	47	56	58	52	66	62	..	60.3
	Minimum	53	37	48	54	48	35	29	30	34	39	53	53	40	27	26	27	35	41	34	22	24	24	29	27	25	24	35	28	33	46	..	35.3
Lamonte	Maximum	66	73	80	79	76	61	63	52	58	69	75	70	68	62	50	57	44	63	51	46	55	57	63	45	43	51	49	52	62	63	..	60.1
	Minimum	50	44	46	46	51	38	34	31	32	42	54	54	52	30	32	28	35	40	35	21	22	21	33	26	20	26	36	26	34	49	..	36.5
Marshall	Maximum	67	68	75	69	69	61	58	52	62	65	70	68	62	50	53	54	45	59	54	41	50	52	60	57	40	48	49	48	60	63	..	57.7
	Minimum	51	51	44	59	50	39	35	30	35	37	55	50	45	29	27	28	32	41	34	24	23	25	34	26	27	24	26	32	33	48	..	36.5
Nevada	Maximum	66	73	76	78	70	61	63	56	59	63	62	68	59	50	50	54	50	61	55	51	52	54	64	51	41	54	56	50	62	64	..	59.1
	Minimum	46	41	53	56	48	38	32	32	33	42	50	53	39	28	29	27	37	42	24	35	25	25	36	27	24	29	40	29	35	47	..	36.7
Warrensburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warsaw	Maximum	73	73	79	77	73	63	62	58	60	67	75	73	64	51	49	56	51	63	59	47	54	54	64	60	44	52	50	50	64	63	..	60.9
	Minimum	50	45	43	59	52	42	32	29	32	41	58	57	42	32	30	25	33	41	38	23	22	23	30	28	20	26	39	28	36	52	..	33.6
Northwest Plateau.																																	
Chillicothe §§	Maximum	63	67	76	72	63	56	56	46	53	65	66	68	55	49	47	56	45	58	40	35	50	54	58	43	40	47	46	50	59	66	..	55.0
	Minimum	58	51	46	50	51	40	36	33	36	39	42	53	51	29	30	27	32	41	30	29	21	26	29	26	19	20	32	28	32	37	..	35.8
Grant City	Maximum	63	64	74	69	67	56	57	49	48	64	60	60	60	48	49	59	60	57	51	39	49	57	59	48	42	50	49	50	54	70	..	56.1
	Minimum	54	49	47	53	49	38	32	32	38	42	54	48	40	27	27	29	29	41	30	27	23	25	36	24	24	19	29	25	29	41	..	35.5
Kansas City	Maximum	63	69	73	73	60	56	58	48	55	64	69	57	52	48	49	56	46	63	46	40	52	55	59	44	42	49	50	48	60	66	..	55.7
	Minimum	53	47	52	50	46	42	39	38	40	45	57	51	40	32	33	38	42	41	31	27	32	33	38	29	25	34	39	35	37	50	..	39.9
Kidder §§	Maximum	63	64	76	76	62	59	56	46	50	63	63	56	53	46	46	56	58	55	40	35	48	55	56	37	47	46	48	56	54	43	..	53.8
	Minimum	55	48	44	48	49	38	35	31	32	39	41	50	51	29	29	30	30	31	32	25	23	24	27	24	21	21	32	27	26	27	..	34.0
Lexington §§	Maximum	74	65	69	76	73	66	59	60	52	61	63	73	62	59	49	50	56	56	62	56	45	51	56	62	48	46	51	49	49	63	..	58.4
	Minimum	51	47	48	56	50	40	36	35	39	41	57	53	44	31	31	31	36	41	36	29	23	28	38	27	21	29	39	27	34	50	..	38.3
Maryville	Maximum	62	64	74	69	64	55	55	45	48	65	59	53	53	48	49	60	49	58	49	41	46	57	56	42	43	47	46	48	56	70	..	54.4
	Minimum	53	47	47	54	47	37	32	32	38	39	50	47	39	27	29	30	42	40	30	26	24	26	37	24	20	29	37	27	35	45	..	36.3
Oregon	Maximum	61	61	68	69	65	53	53	43	50	65	60	54	50	44	46	56	47	55	50	38	44	54	54	43	39	40	46	45	54	68	..	52.5
	Minimum	54	42	49	54	48	38	33	32	41	45	53	47	40	27	29	33	39	39	30	26	27	27	37	25	21	27	29	28	38	48	..	36.9
St. Joseph	Maximum	64	67	74	72	60	55	55	45	51	66	60	55	55	47	48	59	47	59	42	37	47	56	57	43	42	49	47	47	57	71	..	54 5
	Minimum	52	45	50	53	44	40	36	35	40	45	54	50	38	30	32	34	41	41	28	28	28	29	35	27	24	33	39	30	39	42	..	38.1
Trenton	Maximum	65	65	69	68	62	56	54	48	61	62	60	58	56	45	45	52	48	55	52	38	47	51	53	45	36	46	45	45	53	66	..	53.5
	Minimum	52	49	49	52	52	40	36	35	48	49	54	52	44	31	30	32	38	42	36	30	26	30	30	26	22	28	38	33	33	46	..	38.8

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVI. COLUMBIA, MO., DECEMBER, 1922. No. 12.

GENERAL SUMMARY.

December, 1922, in Missouri, as in 1920 and 1921, was mostly bright and pleasant. Notwithstanding some occasional precipitation spells sunshine was 60 per cent of the possible, or about 12 per cent above normal. Except a real touch of winter cold during the second decade, temperatures were nearly ideal for outdoor work and field sports. The cold spell, terminating about the 18th, was followed by mild, pleasant weather to the end of the month. On Christmas Day temperatures were between 60 and 70 generally---the warmest December 25th since 1889.

Winter wheat was seeded under favorable conditions in the early autumn. There has been sufficient moisture for needs, and at the end of this month stands were fine, and color good. Live stock were on pasture most of the month. Nearly all corn has been cribbed. Fruit buds are healthy.

TEMPERATURE.

The monthly mean temperature for the State as a whole, 69 stations reporting, was 36.3°. The departure from the normal for 65 stations having 10 or more years' record was plus 2.9°. It is the third consecutive December with marked plus departures. The excess in warmth was quite uniform and marked in all sections, except perhaps in the northeastern plain where it was less than 2°. The month was made up of two mild periods, 1st to 7th, and 21st to the 31st, and one rather cold period, from the 8th to the 20th. Real cold weather prevailed from the 11th to the 18th. Beginning about 7 p. m. of the 11th and for about 90 consecutive hours the temperatute did not rise above 32° in central and northern sections. On the 12th, 15th, and 18th zero or lower was recorded at 26 stations on one or more days. There were no zero temperatures south of the Missouri River. There were 24 days with 32° or lower.

PRECIPITATION.

The average precipitation for the State, as determined from the records of 87 stations, was 2.11 inches. The departure from the normal for 78 stations having 10 or more years' record was minus 0.14 inch. It was drier than usual in the northern half of the State and southwest plain, and somewhat wetter in the Ozark Plateau and southeastern lowlands. Outdoor occupations were interfered with the first 7 or 8 days in the eastern Ozarks and southeast section, and again more generally from the 27th to the 31st. The snowfall of the month was light and local, and of no consequence. The greatest monthly precipitation was 5.25 inches, at Doniphan. The greatest fall in any 24 consecutive hours was 3.04 inches, at St. Louis on the 26th and 27th.

WIND.

The prevailing winds were from the south. The average monthly movement was 7,612 miles, or an hourly velocity of 10.4 miles. Rather strong winds prevailed on two days, the 11th and 27th.

SUNSHINE AND CLOUDINESS.

The average number of sunshine hours for the State as a whole, was 174. This is about 60 per cent of the possible, and 12 per cent above normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---2nd, 4th, 6th, 7th, 14th, and 29th.
Hail.---At Clinton, on the 30th. No damage.
Halos, solar.---3rd, 8th, 9th, 11th, 12th, 15th, and 30th.
Halos, lunar.---4th, 5th, 11th, 28th, 29th. and 30th.
Sleet, light.---13th, 14th, 21st, and 30th.
Thunderstorms.---4th, 6th, 26th, 27th, and 30th.

OBSERVERS' REMARKS.

Downing.---A remarkable fine December. Cattle still on grass, saving a lot of feed stuff. Some wells dry and rain is needed on that account.

Macon.---One of the finest Decembers known in recent years.

St. Catharine.---December was an ideal month. Fine for outdoor work. Live stock did well on pasture.

Farmington.---December was a month of pleasant weather with almost no snow. Warmest Christmas in many years.

Lockwood.---A nice winter month. Live stock on pasture. Wheat in good condition. All outdoor work up; some plowing.

Rolla.---December was unusually open and mild.

Appleton City.---The warmest Christmas in many years. Roads in good condition, and dusty part of the month.

Clinton.---Fine month. Severe thunder and hail storm on the 30th. No damage.

Warsaw.---December has been an ideal winter month for work and travel. Warmest Christmas in many years. Snow is needed for wheat.

Avalon.---Unusually dry, fine month. Favorable for live stock. Good crop of corn; all cribbed.

Bethany.---Unusually mild and open December. Roads in fine condition.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.11	78	66	178	61	6,846	9.2	31	n,	27
Hannibal	30.13	76	..	...	..	6,611	8.9	31	n.	27
Kansas City	30.10	73	54	209	71	8,967	12.1	37	nw.	11
St. Joseph	30.10	80	60	185	64	6,690	9.0	31	nw.	11
St. Louis	30.11	76	68	169	57	9,895	13.3	39	s.	4
Springfield	30.09	80	68	143	48	8,612	11.6	33	n.	27
Cairo, Ill	30.12	82	69	...	..	7,861	10.6	31	nw.	27
Keokuk, Iowa	30.14	74	62	157	54	6,014	8.1	29	nw.	11

COMPARATIVE DATA FOR DECEMBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	35.9	+1.7	70	0	2.29	+0 24	......	....	6	....	....	....
1889	46.8	+12.6	78	2	0.96	−1.09	......	....	5	....	....	....
1890	36.0	+1.8	76	− 3	1.03	−1.02	......	....	3	....	....	....
1891	39.8	+5.6	72	− 1	1.90	−0.15	......	....	6	....	....	....
1892	29.4	−4.8	75	−22	2.38	+0.33	3.08	4.8	6	8	7	16
1893	35.2	+1.0	76	7	0.95	−1.10	2.95	2.7	5	11	11	9
1894	36.7	+2.5	75	− 7	2.13	+0.08	3.01	1.3	5	14	8	9
1895	34.3	+0.1	69	− 8	6.13	+4.08	6.95	3.4	8	9	8	14
1896	38.6	+4.4	79	− 5	0.93	−1.12	2.25	T.	3	13	8	10
1897	29.3	−4.9	74	−14	2.80	+0.75	2.70	6.3	7	8	8	15
1898	28.7	−5.5	74	−20	1.69	−0.36	2.50	5.1	5	17	6	8
1899	30.4	−3.8	72	−13	2.11	+0.06	1.70	6.6	9	12	9	10
1900	35.6	+1.4	68	− 3	0.69	−1.36	1.08	0.6	4	14	8	9
1901	28.5	−5.7	71	−29	2.93	+0.88	4.43	6.9	8	11	7	13
1902	30.7	−3.5	68	− 7	2.91	+0.06	2.50	3.1	8	10	4	17
1903	30.2	−4.0	65	11	1.51	−0.54	1.80	2.3	5	16	7	8
1904	32.9	−1.3	75	−10	1.50	−0.55	1.55	6.0	5	16	7	8
1905	33.3	−0.9	66	− 2	1.45	−0.60	2.24	1.7	4	18	6	7
1906	36.1	+1.9	73	0	2.27	+0.22	2.85	0.6	8	8	6	17
1907	37.7	+3.5	76	3	1.84	−0.21	1.78	3.7	7	11	7	13
1908	38.4	+4.2	80	− 4	0.85	−1.20	1.35	T.	3	16	7	8
1909	24.9	−9.3	76	−17	2.86	+0.81	2.50	7.7	8	12	8	13
1910	31.2	−3.0	67	− 5	1.25	−0.80	2.85	2.4	4	16	5	10
1911	36.7	+2.5	74	−11	2.80	+0.70	2.00	5.1	7	13	6	12
1912	36.5	+2.3	72	2	0.59	−1.46	0.91	0.6	3	19	5	7
1913	38.3	+4.9	74	− 3	2.27	+0.19	2.25	6.6	7	9	4	18
1914	26.8	−7.1	68	−18	2.48	+0.31	2.30	6.6	9	7	5	19
1915	34.7	+1.3	84	−13	2.77	+0.55	3.20	7.8	6	12	6	13
1916	31.3	−2.3	82	−29	1.85	−0.29	3.40	4.4	6	15	6	10
1917	25.5	−8.7	82	−23	0.74	−1.40	2.51	7.3	5	11	7	13
1918	40.0	+6.6	83	−12	3.21	+1.14	5.50	7.8	7	13	6	12
1919	28.5	−4.5	74	−22	0.69	−1.50	2.65	0.7	3	12	4	15
1920	35.6	+2.6	77	−10	1.93	−0.22	2.30	2 3	5	13	7	11
1921	36.9	+3.8	74	− 8	1.86	−0.23	1.91	1.9	6	13	7	11
1922	36.3	+2.9	75	− 6	2.11	−0.14	3.04	0.2	6	15	6	10
....	.....	....	.....	.....	......	....	.....	....	...	....	....	....
....	.....	....	.....	.....	......	....	.....	....	...	....	....	....
....	.....	....	.....	.....	......	....	.....	....	...	....	....	....

Climatological Data for December, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	30.8	+ 0.2	68	7	0	18†	42	0.81	−0.90	0.37	2.0	3	18	0	13	ne.	O. K. Benecke
Clifton Hill	Randolph	731	22	34.0	+ 3.3	64	4	− 1	18	37	0.75	−0.84	0.40	0.2	4	15	9	7	......	Dr. A. J. Bradsher
Columbia	Boone	748	31	34.3	+ 1.1	72	7	3	18	37	1.38	−0.63	0.96	0.3	6	9	13	9	se.	U. S. Weather Bureau
Downing	Schuyler	878	11	31.8	......	64	25	− 6	18	36	0.52	−1.14	0.25	1.0	3	2	12	17	n.	E. E. St. Clair
Fayette	Howard	661	38	28.8^{a}	− 2.7	68	7	− 3	18	41	0.51	−1.22	0.51	0	1	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	29	36.5	+ 2.8	71	7	3	18	41	1.93	−0.07	1.20	0.4	5	14	10	7	se.	Westminster College
Gorin	Scotland	700	34	....	......	..	..	....	..	..	0.33	−1.52	0.24	1.0	3	10^{a}	8^{a}	12^{a}	se.	J. W. Pulliam
Hannibal	Marion	534	37	32.3	+ 1.0	63	4	2	18	32	0.38	−1.27	0.18	0.5	6	12	8	11	nw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	35.2	+ 2.4	71	7	3	18	40	2.52	+0.67	1.65	1.0	6	18	4	9	s.	Miss Emma Swift
Kirksville	Adair	969	39	31.0	+ 1.6	61	1†	− 4	18	34	0.85	−0.87	0.51	0.5	4	14	1	16	nw.	Prof. J. S. Stokes
Louisiana	Pike	469	40	34.8	+ 3.8	66	5	− 5	18	44	0.97	−0.75	0.60	1.0	6	20	3	8	w.	J. T. Farrell
Macon	Macon	875	28	28.8	− 1.7	62	4	− 3	18	43	0.21	−1.29	0.11	0.5	3	17	9	5	sw.	W. C. Brown
Mexico	Audrain	800	43	31.2	− 1.0	66	4	− 4	18	42	2.10	−0.61	0.83	1.5	8	20	3	8	se.	Mrs. Abbie Snoddy
Palmyra	Marion	652	22	28.6^{a}	− 1.6	63	25	− 2	18†	43	0.43	−1.49	0.16	T.	4	18	1	12	sw.	W. B. Markell
St. Catharine	Linn	800	12	32.8	+ 3.1	63	1	− 2	18	36	0.57	−0.74	0.30	0.5	4	12	10	9	s.	L. D. Baker
St. Charles	St. Charles	456	43	36.6	+ 1.6	66	4†	2	18	40	3.67	+1.75	1.85	1.0	5	12	10	9	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	36.7	+ 1.9	67	4	5	18	37	4.98	+2.75	3.04	0.5	8	10	11	10	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	35.8	+ 1.5	67	4	4	18	32	5.22	+3.12	2.77	1.1	8	8	9	14	se.	St. Louis University
Shelbina	Shelby	779	28	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	.....	S. G. Parsons
Steffenville	Lewis	650	28	33.2	+ 2.8	63	25	− 5	18	32	0.50	−1.19	0.25	1.0	4	16	8	7	s.	Frank Hall
Unionville	Putnam	1,062	28	30.6	+ 3.2	64	25	− 5	18	38	0.50	−1.19	0.50	T.	1	14	7	10	n.	Geo. W. Davis
Warrenton	Warren	816	31	33.4	+ 1.3	68	25	0	18	43	3.14	+0.97	1.74	1.0	5	14	9	8	sw.	Prof. A. W. Ebeling
Keokuk, Iowa.	Lee, Ia.	574	49	30.5	+ 1.1	63	25	− 2	18	32	0.63	−1.24	0.20	1.3	6	10	9	12	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	32.7	+ 1.3	72	7	− 6	18	44	1.51	−0.31	3.04	0.7	5	14	7	10	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	45.7	+ 5.7	73	25	18	19	38	5.10	+0.66	1.90	0	9	12	1	18	e.	H. E. Averill
Doniphan	Ripley	344	17	40.4	+ 3.0	68	4	12	19	39	5.25	+1.92	1.40	0	12	12	5	14	n.	W. W. Martin
Jackson	Cape Girardeau	428	31	38.3	+ 1.7	67	5	11	19	39	2.13	−1.07	0.39	T.	11	9	9	13	s.	John G. Putz
Marble Hill	Bollinger	470	27	39.2	+ 3.0	70	1†	9	19	43	4.26	+0.93	2.28	T.	9	12	7	12	n.	R. A. DeWitt
Parma	New Madrid	281	..	....	......	..	..	....	..	..	5.04	......	1.50	0	10	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	11	....	......	..	..	....	..	..	3.70	+0.68	2.00	0	5	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	339	17	40.3	+ 3.5	71	1	14	19	27	4.80	+0.62	1.86	0	14	12	5	14	s.	Rev. John H. Gallaher.
Vanduser	Scott	304	..	....	......	..	..	....	..	..	5.14	+1.13	1.77	0	11	..	..	..	.....	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	41.4	+ 3.6	68	4	16	19	32	3.27	−0.06	0.85	0	13	6	7	18	s.	U. S. Weather Bureau
Section means and	extremes	....	..	40.9	+ 3.4	73	25	9	19	43	4.30	+0.60	2.28	T.	10	13	5	13	s	
Ozark Plateau.																				
Arcadia	Iron	926	43	35.2	+ 0.9	68	25	9	18†	44	4.96	+1.98	1.37	T.	9	15	4	12	s.	Arcadia College
Birchtree	Shannon	1,000	28	38.2^{a}	+ 2.4	66	3	12	12†	34	4.35	+1.78	1.98	0	5	16^{a}	1^{a}	13^{a}	s.	V. H. Kirkendall
Bolivar	Polk	1,071	32	39.9	+ 4.1	72	7	11	12	44	1.31	−1.09	0.72	0	5	12	10	9	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	38.4	+ 1.0	74	7	11	19	45	2.78	+0.66	1.13	0	6	19	1	11	s.	H. E. Dean
Eldon	Miller	934	22	37.5	+ 3.2	72	7	5	18	47	1.16	−1.00	0.91	0	2	10	9	12	se.	E. H. Shepherd
Farmington	St. Francois	918	24	37.9	+ 0.9	67	25	7	18	34	4.83	+2.12	2.35	0.4	8	12	7	12	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	37.0	+ 1.8	67	25	6	18	36	5.14	+3.13	2.85	0.4	9	13	6	12	se.	A. C. Leach
Goodland	Iron	1,000	28	37.8	+ 3.4	70	25	8	18†	46	4.97	+2.49	2.40	0.5	8	14	5	12	s.	F. M. Adams
Greenville.	Wayne	381	..	40.4	......	70	1†	10	19	45	4.80	......	2.40	0	13	13	4	14	s.	J. J. Amen.
Hollister	Taney	735	18	45.5	+ 5.8	75	7	10	19	46	4.00	+1.73	2.15	0	4	10	11	10	ne.	W. P. Chapmann
Houston ††	Texas	1,280	29	37.8	+ 1,9	68	25	12	19	43	2.95	+0.73	1.50	T.	4	14	3	14	sw.	Walter T. Beard
Koshkonong	Oregon	958	20	41.6	+ 4.0	71	1	14	19	33	5.21	+2.05	1.32	0	12	14	2	15	ne.	R. M. Hitt
Lebanon	Laclede	1,265	34	37.8^{c}	+ 2.8	72	7	9	18†	39	2.42	−0.18	1.00	0	7	12^{c}	11^{c}	5^{c}	n.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	39.8	+ 4.3	73	7	12	12	39	1.67	−0.27	0.83	0	5	20	2	9	sw.	C. S. Crow
Mountain Grove	Wright	1,463	25	36.6	+ 2.3	66	25	12	18†	38	3.60	+1.37	0.98	0	8	13	6	12	se	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	42.2	+ 5.5	75	7	16	12	41	1.96	−0.58	0.60	0	7	20	3	8	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	39.8	+ 6.2	71	25	9	18	36	2.01	−0.06	1.09	T.	4	16	6	9	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	15	43.8	+ 7.2	71	7	15	12	40	3.71	+1.14	1.45	0	7	13^{a}	7^{a}	10^{a}	sw.	Floyd E. Fawver
Seymour	Webster	1,642	16	39.2	+ 4.8	70	7	12	18	40	2.93	+0.88	0.95	T.	8	15	5	11	s.	Ira H. Hailey
Springfield	Greene	1,350	42	39.2	+ 3.7	71	7	12	12	28	2.07	−0.60	1.28	T.	9	14	5	12	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	39.4	+ 3.6	75	7	5	18	47	3.36	+0.86	2.85	0.1	7	14	6	11	s	
Southwest Plain.																				
Amoret	Bates	831	15	36.7^{c}	+ 4.2	70	7	5	18	36	0.85	−0.74	0.50	0	2	16	6	9	sw.	Darby Fruit Farm
Appleton City	St. Clair	853	29	38.4	+ 4.1	66	25	10	12†	41	1.84	+0.20	1.28	0	5	18	7	6	ne.	W. G. Bigelow
Clinton	Henry	765	34	36.2	+ 1.8	66	4	10	18	45	1.90	+0.17	1.10	0	2	15	8	8	se.	A. E. Derwent, M. D.
Harrisonville	Cass	904	46	33.8	+ 2.6	68	7†	3	18	40	0.29	−1.49	0.17	0	2	7	3	21	s.	John H. Patterson
Lamar	Barton	980	40	37.0	+ 1.8	74	7	11	12	45	1.34	−0.61	0.55	0	6	15	4	12	se.	Joe W. Springer
Lamonte ††	Pettis	867	35	35.0	+ 0.8	66	25	3	18	36	0.83	−0.83	0.63	T.	4	18	9	4	se.	J. E. Wheeler
Marshall	Saline	779	32	36.1^{b}	+ 4.5	68	7	4	12	40	0.80	−0.86	0.40	T.	4	19^{b}	3^{b}	7^{b}	nw.	Dr. W. H. Black
Nevada	Vernon	862	30	38.2	+ 4.3	72	7	11	12	34	0.61	−1.25	0.28	0	3	15	9	7	s.	George A. Kaupp
Warsaw	Benton	687	26	39.2	+ 4.4	75	7	10	12†	46	1.44	−0.88	0.75	0	5	13	14	4	n.	J. R. Smith, M. D.
Section means and	extremes	.....	..	37.0	+ 3.5	75	7	3	18	46	1.13	−0.68	1.28	T.	4	15	7	9	se.	
Northwest Plateau.																				
Avalon	Livingston	730	24	33.4	+ 1.0	65	7	− 1	18	33	0.40	−1.12	0.20	0	3	19	5	7	nw.	F. G. Ashbaugh
Bethany	Harrison	916	30	29.5	− 1.4	63	25	− 3	12†	40	0.20	−1.30	0.08	1.0	3	14	10	7	nw.	M. H. Moulton
Chillicothe	Livingston	779	13	29.8	......	64	25	0	18†	43	0.28	−1.66	0.28	T.	1	18	4	9	s.	Wm. J. Olenhouse
Conception	Nodaway	980	37	30.1	+ 0.4	60	1†	− 3	12	34	0.03	−1.04	0.03	T.	1	15	9	7	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	9	29.6^{b}	......	54	29†	1	18	24	0.08	−1.70	0.06	T.	2	21	1	9	n.	Fred L. Stiff
Grant City	Worth	1,134	30	31.2	+ 3.2	63	1	0	15†	38	0.00	−1.25	0.00	0	0	16	12	3	ne.	B. F. Locke
Kansas City	Jackson	963	32	34.7	+ 3.2	67	25	3	18	36	0.22	−1.14	0.17	0.6	3	15	8	8	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	34	31.8	+ 2.3	72	2	− 1	18	44	0.30	−1.12	0.30	T.	1	22	1	8	se.	Linn Terry
Lexington	Lafayette	688	39	35.9	+ 4.4	68	8	− 1	18	47	0.74	−0.98	0.67	0.5	3	17	5	9	nw.	Edwin G. Loomis
Liberty	Clay	859	31	34.2	+ 2.3	66	7†	2	18	39	0.25	−1.24	0.16	0.2	3	15	10	6	sw.	James H. Harris
Maryville	Nodaway	1,109	27	30.0	+ 3.7	60	25	− 2	12	33	0.22	−0.94	0.20	0.2	2	19	0	12	n.	J. R. Brink
Oregon	Holt	1,048	66	30.4	+ 1.9	58	1†	− 1	12	32	0.05	−1.46	0.05	0.5	1	18	6	7	nw.	Tom Curry
St. Joseph	Buchanan	967	49	31.2	+ 1.3	63	25	1	12	30	0.16	−0.95	0.14	0.2	3	15	10	6	nw	U. S. Weather Bureau
Tarkio	Atchison	916	28	28.5	+ 3.3	60	24†	− 2	12	36	0.30	−0.69	0.29	0.5	2	17	8	6	ne.	Albert Volker
Trenton	Grundy	822	26	31.8	+ 2.0	60	1†	0	18	40	0.35	−1.19	0.24	0.5	4	20	5	6	s.	W. H. Estes
Section means and	extremes	.....	..	31.5	+ 2.8	72	2	− 3	12†	47	0.24	−1.19	0.67	0.3	2	17	6	8	nw.	
State means and	extremes	.....	..	36.3	+ 2.9	75	7	− 6	18	47	2.11	−0.14	3.04	0.2	6	15	6	10	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for December, 1922.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	....	....	....	.15	....	....	.82	.10	....	....	....	....	....	....	.02	....	T	....	....	T.	....	....	....	....	....	....	....	....	....	....	.50	1.59
Brunswick‖	Grand	....	....	....	....	....	....	.32	....	....	....	....	....	....	T.	....	....	.12	....	....	....	....	....	....	....	....	....	....	....	....	....	.37	0.81
Clifton Hill	Chariton	....	....	....	....	....	T.	.40	....	....	....	....	....	....	....	....	T.	.25	....	.02	....	....	....	....	....	....	....	....	....	....	.08	....	0.75
Columbia***	Missouri	....	....	....	T.	....	.44	.52	....	....	....	....	....	T.	.01	....	.02	....	....	....	T.	....	....	....	....	....	....	....	....	....	.38	.01	1.38
Downing	Mississippi	....	....	....	....	....	....	.25	....	....	....	....	....	....	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.25	....	0.52
Fayette‖	Missouri	....	....	....	....	....	.51	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.51
Fulton	....do	....	....	....	.19	....	....	1.20	....	....	....	....	....	....	T.	....	....	.02	....	....	....	....	....	....	....	....	....	....	....	....	.21	.31	1.93
Gorin	Mississippi	....	....	....	....	....	....	.24	....	....	....	....	....	....	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.05	....	0.33
Hannibal***	....do	....	....	....	.04	....	.04	.09	....	....	....	....	....	....	T.	....	.01	.02	....	....	....	T.	....	....	....	....	....	....	....	....	.18	....	0.38
Hermann‖	Missouri	.02	....	....	.10	....	....	1.80	....	....	....	....	....	....	....	.02	....	.03	....	....	....	....	....	....	....	....	....	.09	.18	....	....	.46	2.70
Jefferson City‖	....do	.05	....	....	.20	....	....	1.65	....	....	....	....	....	....	....	T.	....	.12	....	....	....	....	....	....	....	....	....	.20	....	....	....	.30	2.52
Kirksville	Mississippi	....	....	....	....	....	.08	.51	....	....	....	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.21	....	0.85
Louisiana	....do	....	....	....	.06	....	....	.16	....	....	....	....	T.	....	....	....	....	.02	....	....	....	....	....	....	....	....	....	.03	....	....	.10	.60	0.97
Macon ‖	Chariton	T.	....	....	....	....	....	.05	....	....	....	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.11	0.21
Mexico ‖	Mississippi	.06	....	....	.07	.29	....	.83	.02	....	....	....	....	....	....	.02	....	.15	....	....	T.	....	....	....	....	....	....	....	....	....	....	.66	2.10
Pacific‖	Meramec	.35	....	....	.81	.12	....	.44	.10	....	....	....	....	....	....	.04	....	.18	....	....	....	....	....	....	....	....	....	1.05	1.33	....	....	.20	4.62
Palmyra‖	Mississippi	.05	....	....	.11	....	....	.16	.11	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.43
St. Catharine	Grand	....	....	....	T.	....	.04	.21	....	....	....	....	....	....	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.30	....	0.57
St. Charles	Missouri	T.	....	.58	T.	....	....	1.08	....	....	....	....	....	....	T.	....	....	.01	....	....	....	....	....	....	....	....	....	1.85	....	....	.15	....	3.67
St. Louis (1)***	Mississippi	.18	....	T	.79	....	.14	.39	....	T.	....	....	....	....	T.	....	.05	T.	....	....	....	T.	....	....	....	....	T.	3.04	....	....	.38	.01	4.98
St. Louis (2)	....do	.20	....	....	.90	....	.15	.59	....	....	....	....	....	....	.01	....	.05	....	....	....	....	T.	....	....	....	....	....	2.77	....	....	.55	..	5.22
Shelbina	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Steffenville	....do	....	....	....	.05	....	....	.25	....	....	....	....	....	....	.10	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	.10	....	0.50
Union‖	Meramec	.40	....	....	.68	.20	....	.49	.03	....	....	....	....	....	....	.04	....	.15	....	....	....	....	....	....	....	....	....	1.50	.50	....	....	.21	4.20
Unionville	Chariton	....	....	....	....	....	T.	.50	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.50
Valley Park‖	Meramec	.53	....	....	.69	.17	....	.55	T.	....	....	....	....	....	....	T.	....	.12	....	....	....	....	....	....	....	....	....	.70	1.64	....	....	.56	4.96
Warrenton ‖	Mississippi	T.	....	....	.15	T.	....	1.74	T.	....	....	....	....	....	....	T.	....	.10	....	....	....	....	....	....	....	....	....	.65	....	....	.50	....	3.14
Keokuk, Ia.***	....do	....	....	....	.17	....	.18	.02	....	....	....	....	....	....	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.15	.01	0.63
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi	.04	....	....	.11	.25	....	.20	.10	.12	....	....	....	....	.30	.10	....	.20	....	....	....	....	....	....	....	....	....	.90	.40	....	....	.77	3.49
Caruthersville	....do	.22	.40	.20	1.90	.28	T.	.63	T.	.12	....	....	....	....	....	....	T.	T.	....	....	....	....	....	....	....	....	.05	1.30	T.	....	T.	....	5.10
Doniphan	Black	1.03	.20	.29	.72	....	.18	.30	.06	T.	....	....	....	....	.10	....	T.	....	....	....	....	....	....	....	....	....	T.	1.40	.20	....	.55	.22	5.25
Jackson	Mississippi	....	....	....	.32	.05	.01	.27	.15	....	....	....	....	....	.13	....	....	.16	....	....	....	....	....	....	....	....	....	.28	.03	....	.34	.39	2.13
Marble Hill	....do	....	....	....	.30	.05	....	.30	.15	....	....	....	....	....	.10	....	....	.10	....	....	....	....	....	....	....	....	....	2.28	....	....	.12	.86	4.26
New Madrid‖	....do	.07	.58	.05	.90	.80	....	.34	.05	.01	.05	....	....	....	.25	.04	....	.10	....	....	....	....	....	....	....	....	....	.85	.13	....	....	.93	5.15
Parma	St. Francis	....	.50	....	1.50	.25	....	.36	....	.24	....	....	....	....	.23	....	.10	....	....	....	....	....	....	....	....	....	....	.86	.05	....	....	.95	5.04
Patton (near)	Mississippi	....	....	....	.05	....	.65	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2 00	....	.40	.60	3.70
Poplar Bluff	Black	.38	....	.40	.63	.10	.09	.21	.07	....	....	....	....	....	.11	....	.03	.14	....	....	....	....	....	....	....	....	....	1.86	.06	....	.48	.24	4.80
Vanduser	Mississippi	.05	.10	....	.77	.22	.07	.51	....	....	....	....	....	....	.20	....	.14	....	....	....	....	....	....	....	....	....	....	1.77	.01	....	....	1.30	5.14
Cairo, Ill.***	....do	.02	.05	.17	.79	....	.28	.04	T.	T.	....	....	....	T.	.12	....	.07	.03	....	....	....	....	....	....	....	....	.06	.83	T.	....	.51	.30	3.27
Ozark Plateau.																																	
Arcadia ‖	St. Francis	.46	....	....	.10	.10	....	.26	.22	....	....	....	....	....	T.	....	....	.10	....	....	....	....	....	....	....	....	....	1.37	1.00	....	1.35	....	4.96
Birchtree	Black	....	....	.33	....	.23	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.98	....	....	1.10	.71	4.35
Bolivar	Osage	....	....	....	T.	....	.05	.23	....	....	....	....	....	....	.08	T.	....	....	....	....	....	....	....	....	....	....	....	.72	....	....	....	.23	1.31
Dean	Neosho	.13	....	.05	.24	....	1.13	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.13	....	....	T.	....	2.78
Eldon	Missouri	....	....	....	....	....	....	.91	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.25	....	....	....	....	T.	1.16
Farmington	St. Francis	.25	....	....	.67	....	T.	.22	....	....	....	....	....	....	....	....	T.	.11	....	....	....	....	....	....	....	....	T.	2.35	.23	....	.52	.48	4.83
Gano	Meramec	1.48	....	....	.32	....	T.	.41	....	....	....	....	....	....	.06	....	....	.06	....	....	....	....	....	....	....	....	....	1.67	.18	....	.80	.16	5.14
Goodland	Black	.50	....	....	.40	....	....	.25	.05	....	....	....	....	....	.05	....	....	.05	....	....	....	....	....	....	....	....	....	2.40	....	1.27	....	....	4.97
Greenville ‖	St. Francis	.20	....	.01	.28	.05	.05	.27	.09	....	....	....	....	....	08	....	T.	.19	....	....	....	....	....	....	....	....	....	2.40	.13	....	.52	.53	4.80
Hollister	White	....	....	....	35	....	1.00	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.15	....	....	.50	....	4.00
Houston	Gasconade	....	....	....	T.	....	.40	.14	....	....	....	....	....	....	T.	....	....	T.	....	....	....	....	....	....	....	....	1.50	....	....	....	.91	....	2.95
Jerome ‖	....do	.42	....	....	.05	.06	....	.17	....	....	....	....	....	....	T.	T.	....	....	....	....	....	....	....	....	....	....	....	1.24	.51	....	....	.16	2.61
Koshkonong	Black	.53	.16	.20	.70	.08	.43	.19	....	T.	....	....	....	....	....	....	T.	.20	....	....	....	....	....	....	....	....	....	1.32	.03	....	.87	.50	5.21
Lebanon ‖	Osage	.12	....	....	T.	.15	.15	.40	....	....	....	....	....	....	T.	.05	....	....	....	....	....	....	....	....	....	....	....	.55	1.00	....	....	....	2.42
Lockwood	....do	....	....	....	....	....	.30	.29	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	.83	....	....	.03	.22	1.67
Mountain Grove‖	White	.64	....	....	.06	.05	....	.80	.05	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	.53	.98	....	....	.49	3.60
Neosho	Neosho	.05	....	T.	.22	....	.60	.27	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.52	....	....	.02	.28	1.96
Rolla	Meramec	....	....	....	....	....	.12	....	....	....	....	....	....	....	T.	....	T.	....	....	....	....	....	....	....	....	....	1.09	.51	....	....	.29	....	2.01
Seligman	Neosho	.76	....	.02	.25	....	.93	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	1.45	....	....	.10	.20	3.71
Seymour	White	.95	....	T.	.05	....	.53	.13	....	....	....	....	....	....	.02	....	T.	....	....	....	....	....	....	....	....	....	....	.92	....	....	.08	.25	2.93
Springfield***	....do	.01	....	.02	.02	....	.39	04	T.	....	....	....	....	T.	.01	....	....	....	....	....	....	....	....	....	....	....	.17	1.11	....	....	.30	....	2.07
Steelville‖	Meramec	.83	....	....	.24	.08	....	24	....	....	....	....	....	....	....	....	....	.01	....	....	....	....	....	....	....	....	....	1.24	1 02	....	....	.59	4.25
Tuscumbia ‖	Osage	T	....	....	.13	.05	....	.60	....	....	....	....	....	....	T.	.06	....	T.	....	....	....	....	....	....	....	....	....	.72	T.	....	....	.41	1.97
Southwest Plain.																																	
Amoret	Osage	....	....	....	....	....	T.	.35	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.50	....	0.85
Appleton City	....do	....	....	....	T.	....	.03	1.28	....	....	....	....	....	....	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.39	.11	1.84
Clinton	....do	....	....	....	....	....	....	1.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.80	....	1.90
Harrisonville‖	....do	....	....	....	....	....	....	.17	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.12	....	0.29
Lamar ‖	Neosho	.10	....	....	.03	....	....	.50	....	....	....	....	....	....	.06	T.	....	....	....	....	....	....	....	....	....	....	....	.10	....	....	....	.55	1.34
Lamonte	Missouri	....	....	....	....	....	.06	.63	....	....	....	....	....	....	.02	....	T	....	....	....	....	....	....	....	....	....	....	....	....	....	.12	....	0.83
Marshall	....do	....	....	....	....	....	.05	.40	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.12	.23	0.80
Nevada	Osage	....	....	....	....	....	.28	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	.06	....	....	.27	....	0.61
Osceola‖	....do	.10	....	....	....	....	....	.90	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.57	1.57
Warsaw	....do	....	....	....	T	....	.07	.75	....	....	....	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.22	.35	1.44
Waverly ‖	Missouri	T.	....	....	....	....	....	.28	....	....	....	....	....	....	....	....	....	.09	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.37
Northwest Plateau.																																	
Avalon	Grand	....	....	....	....	....	.10	....	....	....	....	....	....	....	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.10	....	0.40
Bethany	....do	....	....	....	....	....	.07	.08	....	....	....	T.	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.20
Chillicothe‖	....do	....	....	....	....	....	.28	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	0.28
Conception	Missouri	....	....	....	T.	....	.03	T.	T.	....	....	....	....	T.	T.	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.03
Edgerton	....do	....	....	....	....	....	.06	....	....	....	....	....	....	....	.02	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.08
Grant City	Grand	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	0.00
Kansas City***	Missouri	....	....	....	....	....	.15	.02	T.	....	....	....	....	....	T.	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.22
Kidder ‖	Grand	....	....	....	....	....	....	.30	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.30
Lexington	Missouri	....	....	....	....	....	....	....	.67	....	....	....	....	....	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	.02	....	0.74
Liberty	....do	....	....	....	....	....	.16	.07	T.	....	....	....	....	....	T.	T.	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.25
Maryville	....do	....	....	....	....	....	....	.20	....	....	....	....	....	....	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0 22
Oregon	....do	....	....	....	....	....	T.	....	....	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.05
St. Joseph***	....do	....	....	....	....	....	11	.03	T.	....	....	....	....	.02	T.	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.16
Tarkio	....do	....	....	....	....	....	.29	....	....	....	....	....	....	....	.01	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.30
Trenton	Grand	....	....	....	T.	....	.24	.03	....	....	....	....	....	.04	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.35

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. ‡ Separate dates of fall not recorded.

Daily Temperatures for December, 1922.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	51	48	55	62	38	48	68	28	32	40	48	18	28	26	27	33	20	14	44	37	53	51	42	52	64	50	41	43	55	54	37	42.2
	Minimum	32	32	31	38	19	17	26	24	11	4	18	4	5	17	11	10	10	0	0	11	17	24	25	26	29	28	34	20	19	31	26	19.3
Columbia	Maximum	63	62	58	68	37	50	72	38	28	40	44	18	28	28	24	34	31	23	45	41	47	60	44	60	67	57	38	40	54	52	41	44.9
	Minimum	36	38	34	31	22	25	38	22	18	20	17	7	15	18	13	22	5	3	14	20	19	25	32	32	30	36	25	22	29	41	26	23.7
Fayette	Maximum	55	57	52	62	38	42	68	32	28	34	42	15	25	23	17	30	24	22	43	33	39	57	39	58	64	46	35	51	..	49	32	[a]40.4
	Minimum	30	32	25	30	18	20	32	18	12	12	14	6	10	12	7	12	9	−3	3	21	18	23	24	22	23	17	15	12	..	21	22	[a]17.2
Hannibal	Maximum	62	58	54	63	33	44	58	40	28	42	42	17	24	27	25	34	28	20	40	38	46	52	44	59	62	47	37	35	46	49	45	41.9
	Minimum	36	37	35	33	20	24	40	21	17	20	17	5	15	17	10	23	4	2	11	18	16	23	29	27	31	32	27	24	26	38	27	22.7
Jefferson City §§	Maximum	49	65	60	67	38	53	71	32	30	41	48	28	29	30	33	48	22	21	45	42	47	60	48	62	67	62	33	38	55	50	50	45.9
	Minimum	38	36	36	40	24	25	31	28	21	18	24	9	9	15	12	15	20	3	6	21	20	28	32	28	33	38	33	22	23	37	30	24.4
Kirksville	Maximum	61	57	60	56	40	37	49	50	26	41	43	26	22	23	24	30	29	22	38	38	48	54	52	56	61	54	39	37	47	54	46	42.6
	Minimum	30	29	31	38	15	17	18	16	12	12	24	0	12	16	2	16	7	−4	10	24	13	24	21	27	30	32	27	15	24	36	28	19.5
Louisiana	Maximum	60	55	60	63	66	56	68	40	36	42	45	42	34	30	28	33	33	33	32	44	40	44	40	60	60	62	54	38	42	45	40	46.0
	Minimum	37	32	30	45	22	24	28	32	18	15	32	8	10	21	12	18	18	−5	4	32	15	32	30	22	22	28	33	32	22	35	32	23.7
Macon §§	Maximum	47	48	55	62	33	40	57	26	28	40	44	16	26	25	23	31	19	21	42	35	48	55	39	57	60	45	33	28	50	54	37	39.5
	Minimum	30	30	31	35	16	15	22	20	14	13	15	2	1	15	5	5	10	−3	−1	16	15	24	28	26	29	33	30	16	16	26	24	18.0
Mexico §§	Maximum	51	60	60	66	35	50	68	30	27	41	40	18	22	26	26	33	22	21	41	43	44	56	40	61	62	51	34	35	49	51	34	41.8
	Minimum	34	34	34	37	19	19	26	25	16	15	21	5	7	17	9	17	14	−4	−3	12	16	23	29	27	30	32	31	21	22	28	26	20.6
St. Catherine	Maximum	63	56	56	60	45	39	54	54	29	39	45	28	24	24	27	33	33	23	41	39	50	55	54	57	60	55	42	39	52	53	47	44.4
	Minimum	29	32	28	41	17	20	34	19	13	14	28	0	8	18	5	18	9	−2	11	28	14	23	29	26	27	34	30	17	26	40	23	21.3
St. Louis (1)	Maximum	58	58	57	67	39	47	64	62	34	42	51	27	28	34	26	35	29	22	35	47	43	50	47	62	64	57	45	36	42	48	46	45.2
	Minimum	43	41	44	39	28	28	43	25	24	25	27	12	15	26	17	24	13	5	12	24	20	33	36	33	41	45	32	26	28	35	30	28.2
Unionville	Maximum	62	55	60	54	42	36	44	42	26	41	42	26	25	22	23	34	32	23	38	38	50	55	48	56	64	56	42	44	50	52	48	42.9
	Minimum	28	26	30	40	12	16	32	14	11	10	24	−1	9	12	−2	14	2	−5	8	12	12	24	30	27	28	30	29	15	25	36	22	18.4
Warrenton §§	Maximum	62	64	60	66	40	52	67	33	29	42	50	18	27	28	25	33	23	21	39	44	43	57	42	62	68	61	45	37	46	48	33	44.0
	Minimum	44	34	34	40	23	23	24	31	21	18	18	11	9	16	15	13	22	0	1	10	17	19	29	29	32	38	34	24	23	27	29	22.8
Southeast Lowlands.																																	
Caruthersville	Maximum	62	72	60	70	61	65	68	72	60	46	48	48	40	50	46	40	43	35	48	54	50	62	68	69	73	64	60	46	57	56	55	56.4
	Minimum	52	49	49	50	36	38	48	50	35	32	30	28	21	34	27	28	33	22	18	22	25	28	33	34	35	46	40	34	29	40	40	35.0
Doniphan	Maximum	67	61	56	68	64	47	65	66	39	44	47	45	31	46	46	34	38	32	39	40	48	55	61	64	65	60	66	60	48	52	50	51.7
	Minimum	54	43	40	40	36	31	41	28	33	27	28	22	17	28	23	23	30	16	12	17	20	22	25	25	28	31	36	28	24	37	36	29.1
Jackson	Maximum	62	60	51	62	67	51	66	66	36	45	49	44	30	38	37	34	35	27	38	46	40	52	55	59	65	59	58	38	44	51	51	48.9
	Minimum	48	41	33	47	37	26	43	34	25	24	26	18	15	27	21	25	25	12	11	17	18	20	26	24	26	36	36	28	22	34	34	27.7
Poplar Bluff	Maximum	71	61	59	70	64	46	67	67	39	42	45	45	31	46	46	35	35	28	34	43	42	49	58	56	58	61	61	43	45	53	46	49.8
	Minimum	56	43	41	48	36	30	42	44	28	26	29	23	18	29	23	24	28	15	14	20	22	26	34	29	35	36	37	29	24	29	38	30.8
Cairo, Ill.	Maximum	67	56	56	68	50	59	67	67	36	44	48	43	32	46	34	38	37	26	41	46	41	53	58	63	67	61	60	38	44	51	53	50.0
	Minimum	49	45	46	50	36	32	52	35	30	29	35	18	17	31	24	25	21	16	16	27	24	30	38	33	39	49	37	31	29	40	31	32.7
Ozark Plateau.																																	
Arcadia §§	Maximum	64	62	58	64	49	54	65	42	35	45	48	25	32	38	30	34	31	26	40	47	47	52	60	63	68	54	46	39	48	48	40	46.9
	Minimum	43	36	33	34	30	23	23	40	21	18	18	16	12	16	18	18	24	9	9	13	17	12	22	23	24	29	40	24	21	24	34	23.4
Birchtree	Maximum	57	50	66	60	45	65	62	62	34	46	..	40	30	43	40	33	33	25	36	45	48	59	63	65	62	62	55	41	44	45	45	[a]48.7
	Minimum	45	41	45	28	30	40	31	31	23	20	..	12	16	27	18	18	25	14	12	20	25	25	32	32	32	42	30	23	24	40	30	[a]27.7
Eldon	Maximum	63	66	59	67	56	50	72	56	32	42	50	32	47	33	28	33	32	20	50	45	51	61	52	65	70	67	41	43	56	50	51	49.7
	Minimum	36	36	33	55	30	22	50	22	20	11	29	9	12	25	12	12	19	5	14	22	22	26	30	18	32	40	28	21	26	41	25	25.3
Farmington	Maximum	62	62	58	62	60	53	62	60	33	46	48	40	30	35	37	36	30	23	40	44	45	55	54	62	67	57	53	32	45	45	42	47.7
	Minimum	50	36	37	48	35	25	42	32	22	20	28	15	13	23	18	24	23	7	10	27	19	29	38	28	37	40	32	25	23	33	31	28.1
Hollister	Maximum	68	64	72	70	72	63	75	70	58	52	54	50	48	65	60	50	50	60	50	50	56	58	62	66	70	70	62	60	62	60	55	60.7
	Minimum	50	50	34	50	52	30	42	40	25	28	30	18	16	32	30	20	18	20	10	20	18	20	32	20	25	31	35	30	38	36	40	30.3
Koshkonong	Maximum	71	59	63	67	59	45	67	62	33	44	52	43	39	53	44	33	32	28	43	51	55	60	63	65	70	61	59	51	52	48	45	52.2
	Minimum	55	44	44	45	34	32	40	32	26	23	30	19	17	30	20	24	26	16	14	25	22	33	39	36	37	41	31	25	26	40	31	31.1
Lebanon §§	Maximum	..	69	63	66	55	62	72	40	45	50	51	29	36	41	..	..	28	31	38	45	56	60	66	67	70	66	38	46	53	40	37	[c]53.7
	Minimum	44	..	42	45	25	25	33	29	18	15	30	10	10	18	12	..	..	9	9	18	17	23	23	29	38	42	34	21	21	31	26	[c]25.0
Mountain Grove §§	Maximum	62	63	59	63	53	53	65	36	30	42	52	25	32	47	27	31	28	31	43	46	55	59	56	63	66	61	39	45	50	45	50	47.6
	Minimum	46	45	38	43	28	28	34	35	21	19	20	13	13	18	15	15	26	12	12	18	20	21	27	30	32	38	33	22	22	28	26	25.7
Neosho	Maximum	62	68	61	64	57	53	75	70	31	46	52	50	40	57	34	41	41	37	50	47	55	65	60	64	71	72	69	52	63	60	55	55.5
	Minimum	40	40	34	34	30	35	52	28	24	28	31	16	18	32	17	26	23	21	18	25	19	21	25	29	31	40	34	22	31	46	22	28.9
Rolla	Maximum	61	70	63	67	57	49	70	66	34	46	53	46	31	35	31	34	34	31	48	47	51	65	56	64	71	64	56	42	53	48	45	51.2
	Minimum	43	38	37	49	28	28	46	29	20	18	31	16	13	27	16	24	22	9	18	28	19	29	33	29	35	44	31	23	28	42	28	28.4
Springfield	Maximum	59	67	57	67	53	50	71	49	32	39	50	23	34	46	28	36	31	32	44	43	52	60	55	62	67	66	43	48	55	49	44	48.8
	Minimum	47	47	42	39	29	37	47	23	21	21	23	12	16	24	14	25	18	16	20	27	24	33	36	40	41	43	29	23	34	44	26	29.7
Southwest Plain.																																	
Amoret	Maximum	60	58	54	65	48	47	70	47	31	39	..	..	..	31	23	31	30	31	46	43	56	62	55	66	66	58	46	49	64	55	45	[c]49.1
	Minimum	32	32	30	40	20	25	45	20	15	14	..	7	..	20	11	20	10	5	17	27	20	26	27	30	30	38	32	18	32	42	21	[b]24.3
Appleton City	Maximum	62	60	56	65	50	48	71	65	31	40	51	39	32	33	26	32	31	33	46	45	55	60	53	64	66	59	47	42	60	54	52	49.3
	Minimum	35	37	33	50	24	28	46	24	18	19	33	10	15	25	14	22	14	10	18	32	21	28	29	31	32	42	34	22	34	46	24	27.4
Clinton	Maximum	62	58	55	66	51	47	60	60	28	36	35	35	33	32	24	35	30	25	39	39	47	55	44	55	55	50	38	38	52	52	50	44.7
	Minimum	36	41	34	45	24	28	47	15	19	28	33	12	17	25	15	22	15	10	20	25	22	35	30	34	32	30	35	28	33	45	25	27.7
Harrisonville §§	Maximum	51	58	63	63	38	55	68	28	32	38	51	20	30	25	24	31	21	31	46	43	54	63	55	62	68	51	44	41	61	57	39	45.5
	Minimum	31	33	37	43	20	20	28	22	15	16	20	8	6	18	13	13	10	3	4	17	20	24	29	30	30	38	33	20	23	37	22	22.0
Lamar §§	Maximum	58	64	68	66	51	61	74	33	35	45	49	26	37	41	30	37	29	37	49	50	30	60	52	47	65	71	48	50	63	53	36	48.9
	Minimum	37	36	30	53	23	28	47	26	20	12	28	11	13	22	14	15	17	13	14	19	17	23	23	28	30	43	32	15	18	44	23	25.0
Lamonte	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Marshall	Maximum	63	60	56	65	60	44	68	60	38	39	38	32	29	28	31	29	43	40	50	..	..	57	48	60	60	60	45	40	55	58	53	[b]48.6
	Minimum	33	35	32	42	20	24	39	23	15	15	14	4	11	24	12	10	9	14	18	..	..	25	28	27	29	33	30	21	26	41	29	[b]23.6
Nevada	Maximum	63	62	60	66	46	53	72	48	29	41	52	28	34	34	28	35	32	35	47	46	55	60	53	64	67	67	48	48	62	59	56	50.0
	Minimum	35	35	32	44	25	28	46	24	19	16	26	11	15	26	14	17	15	12	19	27	21	28	29	31	34	46	36	20	33	35	23	26.5
Warrensburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warsaw	Maximum	65	64	60	68	58	60	75	71	36	42	48	47	34	31	28	33	33	33	48	46	54	64	58	63	70	64	51	48	60	57	52	52.4
	Minimum	36	37	28	47	22	29	50	25	20	14	32	10	14	26	14	21	16	10	15	32	17	21	28	23	25	34	33	23	28	48	26	25.9
Northwest Plateau.																																	
Chillicothe §§	Maximum	48	56	55	57	33	41	56	25	30	40	45	17	26	24	25	33	18	26	43	34	53	61	42	59	64	45	41	43	57	53	38	41.5
	Minimum	31	31	31	34	16	18	25	17	14	13	16	1	1	16	7	0	6	0	0	12	17	23	26	25	28	32	32	18	17	28	23	18.2
Grant City	Maximum	63	58	58	52	42	35	38	32	30	38	42	25	23	25	27	32	34	27	40	42	54	57	49	60	60	54	40	40	58	55	42	43.0
	Minimum	25	29	30	39	13	13	30	11	12	13	21	2	9	14	0	14	0	1	12	17	17	27	31	25	30	32	29	15	28	38	24	19.4
Kansas City	Maximum	58	58	58	61	33	49	65	29	30	37	46	17	29	27	26	30	30	27	46	39	54	63	52	61	67	49	43	46	62	53	39	44.6
	Minimum	34	37	43	29	19	24	29	17	14	19	15	5	13	17	13	20	9	3	24	30	28	39	35	38	40	36	28	23	35	30	24	21.8
Kidder §§	Maximum	70	72	55	53	55	61	54	24	29	44	42	44	21	22	29	31	16	25	43	34	38	59	51	58	64	41	39	43	56	54	45	44.5
	Minimum	29	28	30	39	19	17	23	18	14	14	15	1	1	15	5	6	6	−1	0	16	18	28	28	28	30	34	31	19	25	34	23	19.1
Lexington §§	Maximum	66	63	58	57	62	46	50	63	50	32	37	48	32	29	29	29	32	30	30	43	46	53	61	49	60	66	51	43	52	59	55	47.9
	Minimum	33	33	34	43	19	22	40	21	15	13	29	5	11	23	12	16	9	−1	10	30	19	26	32	30	30	36	31	20	30	43	23	23.9
Maryville	Maximum	46	57	59	49	36	33	36	28	29	35	34	17	21	21	17	31	30	26	42	38	52	59	46	59	60	53	38	42	59	55	36	40.2
	Minimum	25	27	29	36	24	20	28	12	13	14	16	−2	10	16	0	15	1	0	13	18	19	28	29	28	32	31	29	19	29	35	23	19.9
Oregon	Maximum	58	56	55	50	34	36	37	27	27	36	38	14	22	23	25	30	30	27	43	40	52	55	45	58	58	48	35	43	58	52	40	40.4
	Minimum	26	28	25	34	14	20	26	12	13	16	14	−1	10	16	3	20	2	2	18	20	21	32	28	29	35	32	27	20	32	33	23	20.3
St. Joseph	Maximum	46	57	56	54	32	40	42	23	30	38	41	14	24	23	25	31	20	29	45	39	53	59	47	60	63	43	39	45	62	52	38	41.0
	Minimum	31	31	36	26	17	22	23	14	16	17	11	1	13	12	7	20	5	3	21	23	24	32	31	33	33	34	24	21	33	27	25	21.5
Trenton	Maximum	60	52	51	53	37	36	48	35	28	35	42	20	24	25	24	33	31	21	39	38	60	57	48	52	59	50	40	37	51	54	43	41.4
	Minimum	31	32	33	37	18	20	35	18	15	16	20	2	13	18	7	19	6	0	12	19	20	29	31	30	32	32	28	19	28	40	29	22.2

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

551.05
UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXVI. Columbia, Mo., Year, 1922. No. 13.

GENERAL SUMMARY.

The outstanding weather features of the year 1922, in Missouri were a comparatively open winter with light snowfall; an unusually wet March, with some local flood damage; favorable spring for fruits and grasses; excessively heavy rains in July over the northern half of the State and resulting destructive floods in the northwestern section; a rather fine summer, though with some persistent local drought along the eastern border, and in the extreme southwest; an unusually hot September, and a mild and prolonged growing season into late autumn.

The weather of October and November, and most of December was about ideal for outdoor pursuits, and consequently of much economic value to the people of Missouri. The demands for fuel were light; live stock did well on pasture; much farm work as well as a large and necessary amount of house building was done, and besides, the public highways probably were never in better condition.

Outside of the destructive river floods in the northwestern section in July, and some local drought damage, it was a fair to good year for crops. Most tree fruits, and berries were unusually fine and plentiful.

TEMPERATURE.

The annual mean for the State was 56.8°, or about 2.0° above the normal. January and July averaged nearly normal; all other months were warmer than normal. The highest temperature was 108°, at Caruthersville, Pemiscot County on July 14th, and the lowest was —6°, at Fayette, Howard County and Mexico, Audrain County, on January 23rd, and at Downing, Schuyler County, December 18th. In July only 8 stations recorded 100° or higher; in August, 50, mostly on the 24th, and in September there were 40.

PRECIPITATION.

The annual precipitation for the State (rainfall and melted snow), was 39.99 inches, or 0.16 less than normal. January, February, May, June, August, September, October, and December were drier than normal, the last month being noticeably so; the other three months were wetter than normal, March being the most marked in this respect. The greatest local annual amount was 56.59 inches, at Warsaw, Benton County, and the least was 29.15 inches, at the St. Louis University. The greatest local monthly amount was 17.68 inches, at Grant City, Worth County, in July. There was no precipitation at Grant City in December and less than one-fourth of an inch at several other stations. The greatest amounts that fell in any 24 consecutive hours were 12.25 and 10.82 inches, at Grant City and Maryville, respectively, on July 10th. There were some few quite heavy local snows, but the season's average was little more than 8 inches.

THE WEATHER BY MONTHS.

January.—Except a cold spell along about the 19th to the 24th, with some zero temperatures, and a few days with appreciable snow or sleet, the month was mostly bright, and favorable for outdoor work. Precipitation was deficient in all sections but the dryness was most marked in the western parts. Winter wheat continued healthy, with a good root system. Live stock did well. Fruit buds were not injured in any manner.

February.—Barring a touch of winter cold along about the middle of the month, and wet, blustry weather the last five days, February was mostly bright and pleasant. The 13th was the coldest day, but only about 15 stations reported zero temperatures. The month was drier than usual; two appreciable snows fell, the 26th, and 28th, the latter storm interfering somewhat with cross-state traffic. Winter wheat continued in satisfactory condition. Fruit buds were normal. Highways continued in excellent condition up to the 20th.

March.—Mild and cold spells alternated quite regularly. The outstanding feature was the abnormally heavy precipitation. Most creeks and some of the smaller rivers were out of banks. As a whole the weather was favorable for wheat and grasses. Owing to saturated soil there was little plowing for or sowing oats. Overland traffic was unfavorably affected by flooded tracks, washouts, and slides. Country roads were almost impassable. Fruits well advanced.

April.—The month was warmer and wetter than normal. Except the 1st, and 18th, there was little or no freezing weather. The frost of the 18th did no damage. The month was marked by storms and floods, most of the smaller streams were out of banks, and for a short time the Missouri below Jefferson City was in flood. Railway traffic was delayed by soft roadbeds and washouts, and most of the country roads were nearly impassable. Wheat, grasses, and fruits did well. Preparing for corn planting and other farm work was a month behind the average.

May.—Somewhat warmer and drier than usual but there were no outstanding features about the weather of May. The rainfall was well distributed. The weather was, as a rule, favorable for all crops, and field work was well advanced. Except a few local hailstorms, there was no storm or flood damage. All fruit trees were heavily loaded with blossom. Berries were particularly favored by the month's weather.

June.—Somewhat warmer and drier than normal, but on the whole favorable for outdoor pursuits. Moderate local showers occurred the first three weeks, changing to heavier and more general rains the last week. Excessive heat about the middle of the month prematurely ripened some wheat, but most crops and outdoor work were favored by the prevailing weather. There were no damaging storms.

July.—About normal as to warmth, sunshine, and wind, but wetter than usual. A marked feature was excessive rain 10th to 12th over the northern half of the State, which caused the Grand, Platte, One Hundred and Two Rivers, and other smaller streams, to go ont of banks, resulting in the worst and most destructive flood in that section since 1909. Aside from the destructive flood, the weather of the month was the most favorable for crop development of any July since 1910.

August.—Mainly warmer and drier than normal. Droughty conditions were quite pronounced in the southwestern plain and in many of the east-central counties. Some late planted, and some upland corn was damaged by hot winds and lack of moisture. From the 15th to the 24th the weather was hot, the afternoon temperatures reaching 100° or higher daily. For most corn it was good maturing weather. Considerable fall plowing was done.

September.—The outstanding features were excessive warmth and relatively scanty precipitation. The first 8 or 9 days were unusually warm, 100° or higher being recorded on several days. Drought and hot winds caused some deterioration in all late planted crops, meadows and pastures in eastern and southern sections. The bulk of the corn crop was about made before the lack of moisture was much felt. Plowing for wheat made good progress. Highways very good.

(Continued on Page 53.)

Climatological data for Year, 1922.

Stations	Counties	Temperature (Degrees Fahrenheit)							Precipitation (inches)							Number of days				Prevailing direction of wind.
		Elevation, feet	Length of record, yrs.	Annual mean	Highest	Date	Lowest	Date	Length of record, yrs.	Total	Greatest monthly	Month	Least monthly	Month	Total snowfall	With precip. .01 inch or more	Clear	Partly cloudy	Cloudy	
Northeast Plain.																				
Brunswick	Chariton	652	44	55.5	102	Aug. 24	0	Dec. 18†	44	41.59	10.30	July	0.59	Jan.	15.2	89	205	[illegible]	160	se.
Clifton Hill	Randolph	731	24	55.7	100	June 13†	−1	Jan. 23†	24	33.38	7.04	"	0.42	"	7.6	88	194	82	89	....
Columbia	Boone	748	33	55.8	100	Sept. 1	−3	" 23	33	43.33	9.98	April	1.23	Feb.	10 1	105	154	100	111	se.
Downing	Schuyler	878	2	54.4	99	Aug. 24	−6	Dec. 18	14	35.05	9.07	July	0.52	Dec.	6.6	98	190	87	88	s.
Fayette	Howard	661	40	52.5	98	" 24†	−6	Jan. 23	40	39.90	7.61	April	0.51	"	14.0	63	....	....	....	....
Fulton	Callaway	818	31	57.2	100	" 17†	−2	" 23	31	43.80	11.92	"	0.44	June	10.4	94	163	136	66	se.
Hannibal	Marion	534	31	55.1	100	" 24	1	" 23	39	31.33	6.25	Mar.	0.38	Dec.	11.9	103	154	104	107	sw.
Jefferson City	Cole	557	36	56.6	103	Sept. 8	3	Dec. 18	40	50 62	13.89	April	0.92	Jan.	10.5	95	250	28	87	s.
Kirksville	Adair	969	34	53.6	100	Aug. 24	−4	" 18	41	40.87	11.95	July	0 85	Dec.	5.8	70	216[a]	39[a]	109[a]	s.
Louisiana	Pike	469	29	56.3	102	" 24	−5	" 18	42	38.11	8.48	April	0.97	"	16.6	97	245[a]	46[a]	73[a]	w.
Macon	Macon	875	25	53.7	99	June 23†	−3	" 18	30	35.76	6.10	July	0.21	"	5.2	100	200	83	82	se.
Mexico	Audrain	800	35	54.5	106	Sept. 2	−6	Jan. 23	45	39.24	8.58	Mar.	0.47	June	14.6	102	241	35	89	se.
Palmyra	Marion	652	22	53.4	102	Aug. 24	−2	" 23†	24	37.02	6.64	Nov.	0.43	Dec.	13.1	76	186[c]	63[c]	113[c]	se.
St. Catharine	Linn	800	14	54.3	97	" 24	−2	" 23†	14	37.89	10.27	July	0.57	"	5.5	97	170	121	74	s.
St. Charles	St. Charles	456	35	57.8	104	" 24	−1	Jan. 23	45	31.78	9.32	April	0.59	Jan.	11.2	66	185	180	100	s.
St. Louis (1)	St. Louis City	717	49	58.2	100	" 24	3	" 23	86	32.34	7.40	"	0.74	"	10.6	98	134	130	101	s.
St. Louis (2)	......do	578	11	57.4	101	" 24	3	" 23	11	29.15	6.09	"	0.62	"	9.1	102	160	95	110	se.
Steffenville	Lewis	650	24	56.2	104	Sept. 7	−5	Dec. 18	30	29.82	5.55	July	0.50	Dec.	11.5	81	183[a]	108[a]	73[a]	s.
Unionville	Putnam	1,062	30	53.3	98	Aug. 24	−5	" 18	30	44.34	10.80	"	0.50	"	7.0	82	174	69	122	n.
Warrenton	Warren	816	41	55.8	103	" 24	−1	Jan. 23†	41	38.57	10.79	April	0.18	June	14.3	89	188	92	85	se.
Keokuk, Iowa	Lee, Iowa	574	51	54.2	99	" 24	−2	Dec. 18	51	30.09	6.35	July	0.63	Dec.	9.8	100	143	109	113	s.
Section means and	extremes	....	......	55.3	106	Sept. 2	−6	Jan. 23†	......	37.33	13.89	April	0.18	June	10.5	90	188	68	99	s.
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	28	64.6	108	June 14	18	Jan. 24†	32	51.65	13.29	Mar.	0.91	Aug.	4.0	82	236	37	92	e.
Doniphan	Ripley	344	19	58.9	101	Sept. 7	10	" 28	19	44.74	7.72	"	0.15	Sept.	6.0	101	196	61	108	s.
Jackson	Cape Girardeau	428	32	58.8	99	June 15†	6	" 28	33	47.15	8.63	"	1.95	Jan.	6.0	105	102	93	170	s.
Marble Hill	Bollinger	470	28	58.3	105	" 14	8	" 24	32	42.89	9.17	"	0.74	"	5.0	67	176	119	70	s.
Parma	New Madrid	281	......	....	....	....	....	....	2	44 22	9.05	"	1.73	Oct.	4.0	83	....	....	....	....
Patton	Bollinger	500	......	....	....	....	....	....	15	35.64	8 38	"	0.48	Sept.	6.0	55	....	....	....	....
Poplar Bluff	Butler	339	19	60.9	100	July 27†	13	Jan. 24	19	36.69	6.90	"	0.53	"	3.8	91	166[k]	106[k]	82[k]	s.
Vanduser	Scott	304	......	....	....	....	....	....	2	42.40	7.97	"	0.86	"	3.0	90	....	....	....	....
Cairo, Ill.	Alexander, Ill.	359	48	59.9	96	June 15†	14	Feb. 7	51	34.80	8.40	"	0.98	Aug.	4.0	108	108	87	170	s.
Section means and	extremes	....	......	60.2	108	June 14	6	Jan. 28	......	42.24	13.29	Mar.	0.48	Sept.	4.6	87	165	85	115	s.
Ozark Plateau.																				
Arcadia	Iron	926	42	55.4	98	Aug. 14	6	Jan. 24	45	36.98	7.08	Mar.	0.94	Sept.	10.4	88	184[a]	77[a]	103[a]	s.
Birchtree	Shannon	1,000	29	57.5	100	" 23	10	" 24	30	35.72	7 21	"	0.69	"	10.0	72	222[c]	65[c]	75[c]	s.
Bolivar	Polk	1,071	29	57.8	104	Sept. 1	5	" 23	34	38 94	7.43	April	0.13	Aug.	7.5	75	228	64	73	sw.
Dean	McDonald	1,000	24	....	106	Aug. 24	6	Mar. 3	24	48.24	7.79	Mar.	1.24	"	6.5	86	236[e]	44[e]	80[e]	e.
Eldon	Miller	934	27	55.9	103	Sept. 2	−5	Jan. 22	24	39.74	12.59	April	0.86	Feb.	8.7	73	114[b]	149[b]	100[b]	s.
Farmington	St. Francis	918	13	57.1	100	Aug. 24	4	" 22	26	40.73	6.75	Mar.	1.17	Jan.	11.4	96	175	111	79	sw.
Gano	Dent	1,250	19	56.0	101	" 24	0	" 24	22	44.67	8.27	April	1.12	"	14.4	86	194	80	91	se.
Goodland	Iron	1,000	29	56.2	100	Aug. 18	6	Jan. 23†	30	42.25	7.93	"	0.44	Sept.	6.2	71	206	80	79	s.
Hollister	Taney	735	36	60.4	107	" 23†	10	Feb. 16†	20	38.05	5.25	Mar.	0.84	Jan.	4.0	52	201	78	86	sw.
Houston	Texas	1,280	31	57.3	103	" 24	8	Jan. 24	31	36.89	6.87	"	0.67	June	6.0	66	186	85	94	ne.
Koshkonong	Oregon	958	22	59.9	103	" 24	13	" 24	22	40 61	7.57	"	0 63	Sept.	6.0	88	151[c]	83[c]	116	se.
Lebanon	Laclede	1,265	36	56.5	104	" 24†	2	" 24	36	33.77	6.75	"	0 90	June	12.7	109	205[c]	76[c]	81[c]	s.
Lockwood	Dade	1,078	17	58.0	100	Sept. 2	7	" 19	27	39.07	7.94	April	0.83	"	13.0	71	226[a]	60[a]	78[a]	sw.
Mountain Grove	Wright	1,463	23	56.2	105	Aug. 24	7	" 24	27	36.84	7.26	"	1.00	Aug.	6 2	90	155	72	138	se.
Neosno	Newton	1,011	35	58.6	102	" 24	9	" 19	40	45.06	7.45	Mar.	1.31	"	6.5	84	222[i]	53[i]	71[i]	sw.
Rolla	Phelps	1,099	23	57.5	102	" 24	3	" 24	39	36.79	6.98	"	0.53	June	12.5	77	211	85	69	s.
Seligman	Barry	1,542	10	59.0	101	" 24	10	" 19†	21	37.67	6.41	July	0.51	Oct.	5.0	88	185[b]	104[b]	74[b]	sw
Seymour	Webster	1,642	17	57.4	102	" 24	3	Mar. 1	17	32.03	5.80	April	0.75	Jan.	5.9	89	193	97	75	s
Springfield	Greene	1,350	35	57.5	100	" 24	7	Jan. 24	35	36.77	6.45	Mar.	0.66	June	15.1	95	172	109	84	se.
Section means and	extremes	....	......	57.5	107	Aug. 23†	−5	Jan. 22	......	38.99	12.59	April	0.13	Aug.	8.8	82	191	84	87	s
Southwest Plain.																				
Amoret	Bates	831	17	56 1	105	Aug. 24	0	Jan. 23	17	41 22	8.00	April	0.85	Dec.	10 5	87	198	77	90	sw.
Appleton City	St. Clair	853	29	57.8	104	" 24	0	" 23	31	41.98	11.45	"	0.81	Aug.	9.8	90	199[b]	100[b]	64[b]	se.
Clinton	Henry	765	31	58.2	105	" 24†	−1	" 23	36	42.23	10.81	"	0.45	June	12.5	69	205[b]	92[b]	66[b]	sw.
Harrisonville	Cass	904	46	55.0	104	" 24	1	" 23	48	39.57	8.22	Sept.	0.29	Dec.	9 5	87	115[a]	81[a]	168[a]	s.
Lamar	Barton	980	36	57.5	103	" 22†	6	" 19†	42	50.67	13.06	April	0.75	Jan.	11.0	83	219	39	107	se.
Lamonte	Pettis	867	23	56.9	105	" 24†	−1	" 23	36	40.62	7.98	"	0.83	Dec.	7.5	97	203	88	74	se.
Marshall	Saline	779	34	56.3	100	" 24†	1	" 23	34	46.39	6.95	"	0.80	"	6.5	84	207[m]	81[m]	61[m]	sw.
Nevada	Vernon	862	30	57.0	102	" 24	0	" 23	31	50.02	11.32	"	0.61	"	13.0	69	200	81	84	s.
Warsaw	Benton	687	23	57.7	105	Sept. 2	0	" 22	28	56.59	14.34	"	0.48	June	20.0	102	166[a]	154[a]	44[a]	e.
Section means and	extremes	....	......	57.0	105	Aug. 24†	−1	Jan. 23	......	46.46	14.34	April	0.29	Dec.	11.5	84	190	89	86	se.
Northwest Plateau.																				
Avalon	Livingston	730	26	55.6	100	Aug. 17	−1	Dec. 18	26	35.94	7.50	July	0.40	Dec.	5.5	58	201[k]	77[k]	76[k]	sw.
Bethany	Harrison	916	32	....	105	" 24	−5	Feb. 13	32	42.07	12.84	"	0.20	"	11.2	73	....	....	....	sw.
Chillicothe	Livingston	779	......	....	98	" 24†	....	....	..	......	......	.. ....	....	....	....	....	....	....	....	e.
Conception	Nodaway	980	35	54.2	106	Sept. 1	−5	Feb. 13	38	35.75	8.62	July	0.03	Dec.	6.5	76	170	115	80	sw.
Edgerton	Platte	856	3	....	103	Aug. 24†	1	Jan. 19†	11	31.10	5.49	May	0.08	"	2.9	88	236[l]	23[l]	94[l]	s.
Grant City	Worth	1,134	19	54.6	98	" 24	−5	" 19	19	52.71	17.68	July	T.	"	6.0	62	215[a]	95[a]	51[a]	s.
Kansas City	Jackson	963	34	56.5	102	" 24	1	" 23†	34	31.52	5 73	Mar.	0.22	"	8.7	101	185	96	81	s.
Kidder	Caldwell	1,020	30	54 2	103	Sept. 1	−1	Dec. 18	36	36.81	7.08	July	0.30	"	8.8	79	202	48	115	se.
Lexington	Lafayette	688	38	56.7	103	" 1	−1	" 18	41	29.34	6.40	April	0.32	Jan.	8.8	86	191	80	94	s
Liberty	Clay	859	33	56.4	105	" 1	0	Jan. 19†	33	35.61	6.58	Sept.	0.25	Dec.	9.2	82	188	111	66	sw.
Maryville	Nodaway	1,036	33	53.5	101	" 1	−3	Feb. 13	33	44.05	15.21	July	0.22	"	10.7	92	219[a]	18[a]	127[a]	s.
Oregon	Holt	1,048	38	53.4	101	" 1	−4	" 13	68	36.40	6 86	May	0.05	"	4.5	68	204[a]	97[a]	63[a]	s.
St. Joseph	Buchanan	967	15	55.2	104	" 1	0	" 13	51	33.71	6.56	"	0 16	"	2.7	91	197	95	73	nw.
Tarkio	Atchison	916	20	52.8	105	" 1	−5	" 13	30	33.12	5.85	July	0.30	"	12.0	71	196	89	80	se.
Trenton	Grundy	822	27	53.9	94	June 14†	0	" 13†	28	46.70	15.89	"	0 35	"	4.1	93	218[b]	78[b]	67[b]	se.
Section means and	extremes	....	......	54.8	106	Sept. 1	−5	Jan. 19†	......	37.50	17.68	July	T.	Dec.	7.2	80	202	80	83	s.
State means and	extremes	....	......	56.8	108	June 14	−6	Jan. 23†	......	39.99	17 68	July	T.	Dec.	8.5	85	188	82	95	s.

†Also on other dates.

[a], [b], [c], indicate the number of days missing from records, a, 1; b, 2; c, 3; etc

Monthly and Annual Precipitation for the Year 1922, with Departures.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual	
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
Northeast Plain.																										
Boonville	1.59	-0.28	1.06	-1.36	7.37	+4.34	7.52	+3.61	3.14	-2.09	2.60	-2.87	5.36	+1.44	2.98	-0.75	5.26	+0.57	5.12	+2.29	3.16	+0.85	1.59	-0.32	46.75	+5.43
Brunswick	0.59	-1.18	1.53	-0.48	4.75	+2.27	6.58	+3.31	4.23	-0.70	1.61	-3.88	10.30	+5.66	1.74	-2.13	3.95	-0.38	0.99	-1.86	4.51	+2.55	0.81	-0.90	41.59	+2.28
Clifton Hill	0.42	-1.59	1.32	-0.64	5.04	+2.42	5.03	+1.69	1.82	-3.48	0.92	-4.64	7.04	+2.78	2.81	-0.03	4.14	+0.28	1.26	-0.59	2.83	+1.10	0.75	-0.84	33.38	-3.54
Columbia	1.53	-0.70	1.23	-0.90	8.46	+5.43	9.93	+6.23	4.34	-0.52	2.01	-2.37	3.49	-0.16	3.30	+0.26	3.79	+0.94	1.50	-0.92	2.37	+0.06	1.38	-0.63	43.33	+6.71
Downing	0.67	-1.18	1.41	-0.04	1.45	-0.95	2.84	-0.83	3.81	-0.77	2.97	-1.36	9.07	+4.17	3.13	-0.15	3.06	-1.90	2.65	+0.29	3.47	+1.78	0.52	-1.14	35.05	-2.08
Fayette	2.55	+0.44	1.27	-0.81	6.74	+4.09	7.61	+4.28	2.58	-2.07	1.61	-3.08	5.13	+1.36	2.00	-1.08	4.60	-0.14	2.20	-0.27	3.10	+1.05	0.51	-1.22	39.90	+2.55
Fulton	2.75	+0.14	1.10	-1.00	8.81	+5.90	11.92	+7.83	3.07	-1.61	0.44	-4.27	2.43	-1.91	2.14	-1.16	5.30	+1.08	2.80	+0.30	1.11	-1.29	1.93	-0.07	43.80	+3.94
Gorin	...	......	......	......	......	......	3.49	-0.33	3.71	-0.87	3.24	-0.52	6.22	+2.04	2.41	-0.63	3.96	-0.45	1.02	-1.39	3.37	+1.41	0.33	-1.52	......	......
Hannibal	1.56	-0.64	1.18	-0.42	6.25	+3.49	5.45	+2.20	2.44	-2.56	0.96	-2.56	2.26	-1.49	2.12	-1.26	3.54	-0.02	1.83	+0.19	3.36	+1.41	0.38	-1.27	31.33	-2.93
Hermann	1.19	-1.04	1.12	-1.31	6.78	+3.78	11.96	+8.43	1.76	-2.54	0.87	-3.72	3.44	-0.53	3.67	+0.46	3.07	-0.95	0.95	-1.74	3.00	+0.18	2.70	+0.86	40.51	+1.88
Jefferson City	0.92	-1.30	1.23	-0.86	11.51	+8.69	13.89	†10.35	3.88	-0.67	2.19	-1.83	3.52	+0.07	3.32	+0.26	3.37	+0.09	1.59	-1.00	2.68	+0.41	2.52	+0.67	50.62	†14.88
Kirksville	1.18	-0.46	0.99	-0.94	3.08	+0.37	2.69	-0.77	5.32	+0.03	0.96	-3.43	11.95	+7.37	5.42	+2.17	3.25	-1.18	1.92	-0.94	3.26	+1.51	0.85	-0.87	40.87	+2.86
Louisiana	2.21	+0.16	1.32	-1.15	6.39	+3.72	8.48	+5.43	2.22	-2.30	1.16	-2.89	3.52	+0.23	2.22	-1.38	3.10	-0.74	2.25	-0.25	4.27	+2.06	0.97	-0.75	38.11	+2.14
Macon	0.85	-1.01	2.07	-0.11	5.66	+3.14	4.43	+1.56	3.15	-1.72	1.59	-3.16	6.10	+2.44	3.84	+0.94	4.56	+0.48	0.75	-2.05	2.55	+0.60	0.21	-1.29	35.76	-0.18
Mexico	1.61	-0.57	1.03	-1.42	8.58	+5.91	7.11	+3.64	1.67	-3.06	0.47	-4.47	3.78	-0.23	3.56	+0.42	4.10	-0.31	1.99	-0.32	3.24	+0.84	2.10	-0.01	39.24	+0.42
Pacific	1.12	-1.29	1.26	-1.08	5.47	+1.76	8.01	+3.93	1.56	-3.43	1.41	-2.96	2.83	-1.25	0.80	-3.02	2.32	-1.54	2.64	-0.31	3.08	+0.33	4.62	+2.56	35.12	-6.30
Palmyra	1.90	-0.75	1.61	-0.68	5.80	+2.89	5.38	+2.13	1.52	-3.52	2.77	-1.92	3.05	-0.46	1.73	-1.95	5.04	+1.33	1.15	-1.24	6.64	+4.33	0.43	-1.49	37.02	-1.33
St. Catharine	1.03	-0.23	1.20	-0.04	3.82	+1.24	2.85	-0.73	3.91	-0.86	1.73	-3.31	10.27	+6.14	3.76	+0.07	3.81	-0.31	1.87	-0.10	3.07	+1.44	0.57	-0.71	37.89	+2.57
St. Charles	0.59	-1.91	0.84	-1.06	5.21	+2.07	9.32	+5.80	1.96	-2.29	1.39	-2.77	1.09	-2.41	1.70	-1.74	2.48	-0.60	1.42	-1.09	2.11	-0.53	3.67	+1.75	31.78	-4.78
St. Louis(1)	0.74	-1.53	1.52	-1.23	4.84	+1.41	7.40	+3.88	1.26	-2.98	0.80	-3.67	2.42	-1.01	1.79	-0.87	2.49	-0.42	1.74	-0.67	2.36	-0.52	4.98	+2.75	32.34	-4.86
St. Louis(2)	0.62	-2.45	1.17	-1.14	3.02	+0.07	6.09	+2.08	1.06	-3.18	1.29	-2.47	1.92	-0.83	1.14	-4.57	2.40	-2.24	2.40	-1.39	2.82	+0.51	5.22	+3.12	29.15	*12.49
Shelbina	......	......	1.35	-0.84	5.96	+3.34	5.22	+2.03	3.17	-1.99	1.40	-3.69	3.83	-0.77	2.44	-0.20	......	......	1.05	-1.97	3.70	+1.61	......	......	......	......
Steffenville	1.02	-1.45	1.37	-0.68	4.37	+1.45	3.19	+0.21	2.52	-2.51	1.74	-2.43	5.55	+0.70	1.75	-1.84	3.68	-0.55	1.70	-0.38	2.43	+0.50	0.50	-1.19	29.82	-8.17
Union	1.15	......	1.49	......	5.21	......	9.72	......	2.49	......	1.17	......	3.50	......	2.19	......	1.62	......	1.74	......	3.20	......	4.20	......	37.71	......
Unionville	0.72	-1.38	1.47	-0.53	2.93	+0.62	5.05	+1.56	4.71	-1.30	2.85	-1.57	10.80	+6.61	5.10	+1.12	2.75	-1.93	2.86	+0.42	4.60	+2.91	0.50	-1.19	44.34	+5.34
Valley Park	0.91	......	1.38	......	4.76	......	8.06	......	1.29	......	0.52	......	2.86	......	2.13	......	2.50	......	1.46	......	3.63	......	4.96	......	34.46	......
Warrenton	1.41	-1.05	1.28	-1.23	8.58	+5.29	10.79	+6.57	2.29	-2.34	0.18	-4.17	2.04	-1.89	1.74	-1.35	2.10	-1.86	1.70	-1.03	3.32	+0.68	3.14	+0.97	38.57	-1.41
Keokuk, Ia.	1.04	-0.65	1.56	-0.06	3.58	+1.21	2.97	-0.37	2.44	-1.81	1.08	-3.27	6.35	+2.32	3.37	+0.13	2.92	-1.05	0.77	-1.72	3.38	+1.53	0.63	-1.24	30.09	-4.96
Southeast Lowlands																										
Cape Girardeau	2.22	-1.70	2.46	+0.28	7.80	+4.39	3.87	-0.07	2.94	-1.33	3.01	-0.71	7.57	+4.67	2.82	-1.45	4.04	+1.72	2.95	-0.29	3.07	-0.27	3.49	+0.20	46.24	+5.44
Caruthersville	2.57	-2.18	3.22	-0.58	13.29	+9.29	4.35	+0.23	3.06	-1.20	1.81	-2.17	7.75	+4.34	0.91	-2.66	2.95	-0.15	2.80	-0.16	3.84	-0.01	5.10	+0.66	51.65	+5.41
Doniphan	2.72	-1.49	4.25	+1.10	7.72	+4.13	4.50	-0.87	2.79	-1.37	1.67	-2.71	4.28	-0.45	3.84	-0.47	0.15	-3.49	1.08	-1.97	6.49	+3.37	5.25	+1.92	44.74	-2.30
Jackson	1.95	-1.77	2.36	-0.53	8.63	+4.29	4.70	+0.23	2.23	-2.13	3.53	-0.76	6.70	+3.18	3.87	+0.26	5.41	+1.86	2.93	-0.29	2.71	-0.42	2.13	-1.07	47.15	+2.85
Marble Hill	0.74	-2.79	3.24	-0.04	9.17	+4.99	6.86	+2.42	2.16	-2.07	1.62	-2.55	5.46	+0.78	2.64	-0.86	1.32	-2.31	1.68	-0.97	3.74	+0.57	4.26	+0.93	42.89	-1.90
New Madrid	2.29	-3.07	3.38	-0.47	11.63	+6.38	4.35	0.00	4.58	-0.01	1.34	-2.87	4.25	+0.34	2.31	-1.57	3.85	+6.54	2.46	-0.79	2.72	-1.13	5.15	+0.79	48.31	-1.86
Parma	1.82	......	2.63	......	9.05	......	4.86	......	2.38	......	2.68	......	2.82	......	5.21	......	2.19	......	1.73	......	3.81	......	5.04	......	44.22	......
Patton	0.93	-2.12	2.25	+0.31	8.38	+4.32	4.71	+1.23	1.14	-3.64	2.28	-1.39	3.20	-0.54	2.18	-2.36	0.48	-2.73	2.55	-0.62	3.84	+1.61	3.70	+0.68	35.64	-5.25
Poplar Bluff	2.02	-1.95	4.28	+1.32	6.90	+2.48	4.45	-0.02	1.01	-4.02	2.04	-2.98	3.28	-0.27	2.33	-1.94	0.53	-3.05	0.95	-2.25	4.10	+0.84	4.80	+0.62	36.69	*11.22
Vanduser	1.85	-2.38	3.83	+0.57	7.97	+3.47	4.18	-0.08	2.64	-1.52	1.06	-2.82	2.45	-2.32	6.22	+2.41	0.86	-2.00	2.80	+0.20	3.40	-0.25	5.14	+1.13	42.40	-3.59
Cairo, Ill.	1.48	-2.34	2.81	-0.52	8.40	+4.38	3.35	-0.22	2.65	-1.18	1.44	-2.87	4.49	+1.04	0.98	-1.95	1.41	-1.06	2.54	-0.09	1.98	-2.04	3.27	-0.06	34.80	-6.89
Ozark Plateau																										
Arcadia	1.22	-2.00	1.91	-1.25	7.08	+3.01	6.05	+1.43	2.24	-2.54	1.33	-3.25	2.53	-1.71	3.36	-0.36	0.94	-2.70	2.12	-0.95	3.24	-0.38	4.96	+1.98	36.98	-8.72
Birchtree	1.42	-1.64	2.18	-0.31	7.21	+2.96	4.55	-0.17	1.95	-2.36	1.68	-2.85	4.30	+0.31	2.02	-2.37	0.69	-2.90	1.35	-1.23	4.02	+1.13	4.35	+1.78	35.72	-7.65
Bolivar	1.41	-0.48	1.59	-0.70	5.97	+2.92	7.43	+3.44	5.37	-0.05	0.28	-4.74	7.13	+3.38	0.13	-3.55	2.30	-1.80	1.53	-1.78	4.49	+1.96	1.31	-1.09	38.94	-2.48
Dean	1.77	-0.47	2.50	+0.67	7.79	+4.44	6.80	+2.76	6.25	+0.29	2.37	-2.90	6.74	+2.69	1.24	-3.03	1.58	-2.04	1.67	-1.82	6.75	+3.71	2.78	+0.66	48.24	+4.96
Eldon	0.93	-0.61	0.86	-1.24	7.52	+4.69	12.59	+8.13	2.58	-2.28	1.28	-3.03	4.09	+0.43	2.12	-1.86	2.11	-1.69	1.85	-1.18	2.65	+0.44	1.16	-1.00	39.74	+0.80
Farmington	1.17	-1.18	1.92	-1.37	6.75	+3.48	6.67	+2.71	2.76	-2.74	3.31	-1.32	2.87	-0.68	3.10	-0.28	1.21	-2.01	3.43	+0.54	2.71	-1.25	4.83	+2.12	40.73	-1.98
Gano	1.12	-1.73	2.13	-0.25	7.95	+4.65	8.27	+3.72	1.76	-2.78	3.57	-0.73	3.18	-0.32	4.06	-0.35	1.23	-3.03	2.98	-0.90	3.28	+0.97	5.14	+3.13	44.67	+2.38
Goodland	0.92	-1.95	2.44	-0.09	7.35	+3.10	7.93	+2.84	1.38	-3.24	2.48	-1.62	2.47	-1.71	5.01	+0.98	0.44	-3.29	3.82	+0.60	3.04	+0.15	4.97	+2.49	42.25	-1.74
Greenville	......	......	......	......	8.36	......	6.22	......	2.23	......	0.83	......	2.58	......	4.89	......	1.65	......	0.72	......	3.95	......	4.80	......	......	......
Hollister	0.84	-1.77	2.25	+0.17	5.25	+2.02	4.96	+0.39	4.55	+0.32	1.00	-3.01	4.55	+0.63	1.85	-2.12	1.15	-2.56	3.00	+0.17	4.65	+1.87	4.00	+1.73	38.05	-2.16
Houston	1.06	-1.49	3.15	+0.93	6.87	+2.74	6.13	+1.69	1.24	-2.85	0.67	-3.99	5.97	+1.91	0.81	-2.95	1.23	-2.88	3.32	+0.58	3.49	+1.03	2.95	+0.73	36.89	-4.55
Jerome	1.41	-0.65	1.95	-0.54	7.65	+4.99	5.12	+1.31	1.53	-2.93	0.63	-2.90	5.08	+1.85	2.42	-1.82	1.21	-2.17	1.97	+0.10	2.91	+0.43	2.61	+1.12	34.49	-1.21
Koshkonong	2.46	-1.08	3.49	+0.70	7.57	+3.76	4.47	-0.50	1.76	-3.08	0.99	-3.49	3.86	-0.06	3.20	-1.25	0.63	-2.76	2.33	-0.58	3.74	+0.72	5.21	+2.05	40.61	-5.57
Lebanon	1.55	-0.90	2.01	-0.49	6.75	+3.30	5.43	+1.25	1.92	-3.69	0.90	-4.03	3.86	-0.26	1.21	-2.32	3.26	-0.83	1.63	-1.63	2.83	+0.29	2.42	-0.18	33.77	-9.49
Lockwood	1.21	-0.45	1.63	-0.34	5.85	+3.39	7.94	+4.28	3.51	-1.57	0.83	-3.97	6.16	+1.29	2.54	-1.63	1.73	-2.27	1.22	-2.23	4.78	+2.57	1.67	-0.27	39.07	-1.20
Mountain Grove	1.04	-1.83	2.61	+0.35	6.20	+1.86	7.26	+2.48	3.21	-1.64	1.57	-2.99	3.77	-0.23	1.00	-3.40	1.55	-2.49	1.89	-1.16	3.14	+0.71	3.60	+1.37	36.84	-6.97
Neosho	1.83	-0.67	2.01	-0.37	7.45	+3.98	6.50	+2.38	4.19	-1.88	3.52	-1.91	6.75	+2.57	1.31	-2.78	2.52	-1.70	1.47	-1.92	5.55	+2.49	1.96	-0.58	45.06	-0.39
Rolla	1.23	-1.22	1.98	-0.36	6.98	+3.39	4.81	+0.15	2.81	-2.20	0.53	-3.60	5.01	+0.92	4.92	+0.84	0.80	-3.04	2.50	-0.45	3.21	+0.90	2.01	-0.06	36.79	-4.73
Seligman	1.49	-0.75	1.97	+0.09	5.49	+1.55	4.17	+0.21	5.01	-0.58	1.17	-2.36	6.41	+2.01	1.31	-2.68	1.38	-2.74	0.51	-2.43	5.05	+2.69	3.71	+1.14	37.67	-3.82
Seymour	0.75	-1.95	2.63	+0.18	5.21	+1.15	5.80	+1.84	2.15	-3.55	0.94	-3.69	4.58	-0.17	1.22	-2.62	1.03	-3.55	1.91	-1.10	2.88	+0.55	2.93	+0.88	32.03	†12.03
Springfield	1.38	-1.28	2.02	-0.25	6.45	+2.38	4.91	+1.08	3.94	-1.61	0.66	-4.53	6.15	+1.36	2.47	-1.84	0.95	-2.81	1.60	-1.20	4.14	+1.50	2.07	-0.60	36.77	-7.80
Steelville	1.93	+0.08	1.76	-0.50	6.75	+4.67	7.07	+2.76	1.57	-2.77	2.65	-1.50	6.09	+2.89	5.14	+1.63	2.53	-0.67	2.45	-0.76	2.87	+0.19	4.25	+2.31	45.06	+8.36
Tuscumbia	0.83	......	1.29	......	8.17	......	12.75	......	2.21	......	0.94	......	3.68	......	2.32	......	1.80	......	2.45	....	2.58	.....	1.97	......	40.99	......
Southwest Plain																										
Amoret	1.20	-0.09	1.09	-1.06	7.03	+4.53	8.60	+4.60	3.27	-1.55	1.19	-2.67	4.82	+0.86	0.90	-3.11	3.95	+0.05	3.30	+0.78	5.02	+3.36	0.85	-0.74	41.22	+4.96
Appleton City	1.66	-0.17	0.93	-1.04	7.48	+4.41	11.45	+7.19	2.62	-2.92	1.71	-3.28	6.48	+1.85	0.81	-2.93	4.80	+1.13	1.29	-1.05	3.91	+1.78	1.84	+0.20	44.98	+5.17
Clinton	2.19	+0.21	1.94	-0.16	5.68	+2.82	10.81	+6.77	3.16	-2.28	0.45	-4.28	4.07	+0.13	1.18	-2.18	5.60	+1.78	1.40	-1.41	3.85	+1.97	1.90	+0.17	42.23	+3.54
Harrisonville	0.63	-0.97	1.29	-0.73	4.58	+1.80	7.89	+4.50	3.05	-1.76	2.69	-1.77	4.32	+0.54	0.93	-3.22	8.22	+3.86	2.03	-0.56	3.65	+1.70	0.29	-1.49	39.57	+1.99
Lamar	0.75	-0.95	1.65	-0.58	8.22	+5.32	13.06	+8.91	2.95	-2.51	2.14	-2.82	7.87	+3.63	2.67	-1.51	4.13	-0.11	1.47	-1.66	4.42	+2.18	1.34	-0.61	50.67	+9.29
Lamonte	1.54	-0.24	1.27	-0.61	7.04	+4.44	7.98	+4.21	3.40	-1.55	0.87	-3.62	4.80	+0.80	1.80	-1.92	6.18	+1.68	2.14	-0.19	2.77	+0.87	0.83	-0.83	40.62	+3.01
Marshall	1.78	-0.04	1.47	-0.37	5.75	+3.04	6.95	+3.26	6.48	+1.62	2.05	-2.27	5.29	+1.24	2.44	-1.22	6.94	+2.06	1.87	-0.71	4.66	+2.58	0.80	-0.86	46.39	+8.33
Nevada	6.15	+4.18	1.08	-1.00	8.26	+5.27	11.32	+7.53	3.03	-2.69	1.25	-3.86	6.02	+2.09	1.83	-1.68	4.86	+0.70	1.17	-1.91	4.44	+2.56	0.61	-1.25	50.02	+9.94
Osceola	1.43	-0.69	0.98	-0.81	7.07	+4.14	11.44	+7.39	3.10	-2.85	0.13	-4.62	5.16	+1.12	0.78	-2.84	6.53	+2.02	1.20	-1.63	3.59	+0.81	1.57	-0.65	42.98	+1.39
Warsaw	1.70	-0.68	2.44	-0.12	9.49	+6.26	14.34	†10.12	3.02	-2.21	0.48	-4.69	9.65	+5.35	1.22	-3.07	7.05	+2.73	1.50	-1.81	4.26	+1.85	1.44	-0.88	56.59	†12.85
Waverly	0.38	.....	1.16	......	5.69	......	5.43	......	2.49	......	0.83	......	7.07	......	2.45	......	3.95	......	1.11	......	3.64	......	0.37	......	34.57	......
Northwest Plateau																										
Avalon	1.53	-0.46	0.98	-1.19	4.85	+1.97	3.75	+0.54	3.35	-1.86	1.85	-2.71	7.50	+3.33	3.10	-0.43	3.23	-1.72	1.95	-1.23	3.45	+1.52	0.40	-1.12	35.94	-3.36
Bethany	0.44	-1.01	1.79	+0.23	3.10	+0.91	1.72	-1.24	4.32	-0.80	3.25	-0.99	12.84	+8.33	3.29	-0.70	3.15	-0.63	2.32	+0.11	5.65	+4.06	0.20	-1.30	42.07	+6.97
Chillicothe	....	......	....	.....	4.51	+2.04	3.44	-1.38	3.46	-2.04	1.69	-4.22	6.79	+1.64	3.32	-1.53	4.34	-2.14	1.49	-2.74	3.68	+1.20	0.28	-1.66	......	......
Conception	0.36	-0.69	1.33	+0.07	2.73	+1.03	1.98	-0.73	5.50	+0.80	2.15	-2.30	8.62	+4.27	1.80	-1.87	3.86	+0.09	3.59	+1.12	3.80	+2.52	0.03	-1.04	35.75	+3.27
Edgerton	0.88	-0.60	1.85	+0.15	4.01	+1.59	2.93	-0.59	5.49	-0.47	1.43	-4.15	5.31	+0.31	0.39	-3.37	3.46	+0.89	2.13	-0.34	3.14	+1.89	0.08	-1.70	31.10	-4.86
Grant City	0.90	-0.12	1.05	-0.08	4.82	+2.87	1.90	-0.97	5.56	+0.84	2.60	-1.78	17.68	†12.74	4.16	+0.46	5.63	+1.68	3.83	+1.06	4.58	+3.12	0.00	-1.25	52.71	†18.57
Kansas City	0.61	-0.52	1.49	-0.62	5.73	+2.91	4.06	+0.77	2.83	-2.28	1.13	-3.53	4.66	-0.18	0.81	-3.94	4.50	+0.74	2.31	+0.10	3.17	+1.32	0.22	-1.14	31.52	-5.85
Kidder	1.45	+0.02	2.01	+0.38	4.57	+2.34	2.72	-0.07	3.10	-2.45	2.11	-2.28	7.08	+2.97	2.09	-1.75	4.35	+0.32	1.44	-1.32	5.59	+3.89	0.30	-1.12	36.81	+0.93
Lexington	0.32	-1.25	1.60	-0.40	3.81	+1.44	6.45	+3.04	2.60	-2.46	1.58	-3.19	5.02	+0.30	0.75	-2.38	2.37	-2.07	0.89	-1.68	3.26	+1.41	0.74	-0.98	29.34	-8.22
Liberty	0.41	-0.98	1.65	-0.29	5.05	+2.50	4.52	+1.42	2.38	-2.77	1.66	-3.25	5.46	+0.86	2.24	-1.51	6.58	+2.29	2.26	-0.24	3.15	+1.45	0.25	-1.24	35.61	-1.76
Maryville	0.66	-0.53	1.26	-0.24	3.28	+1.39	2.40	-0.30	4.43	-1.50	2.06	-2.48	15.21	+9.50	2.30	-1.76	4.86	+0.62	2.46	-0.37	4.91	+3.43	0.22	-0.94	44.05	+6.82
Oregon	0.45	-1.03	1.00	-0.70	3.14	+1.11	2.66	-0.59	6.86	+1.96	2.33	-2.41	5.76	+1.38	1.89	-2.20	5.55	+1.87	3.07	+0.48	3.61	+1.96	0.05	-1.46	36.40	+0.37
St. Joseph	0.55	-0.56	1.58	+0.24	4.08	+2.07	2.54	-0.33	6.56	+2.22	1.75	-2.93	4.16	+0.28	1.53	-2.13	3.09	-0.26	2.72	+0.12	4.99	+3.24	0.16	-0.95	33.71	+1.01
Tarkio	0.76	-0.10	1.47	+0.41	2.62	+0.90	3.42	+0.46	2.98	-1.83	2.04	-2.92	5.85	+2.01	3.10	-1.04	3.56	+0.05	2.48	-0.03	4.54	+3.24	0.30	-0.69	33.12	+0.46
Trenton	0.79	-0.77	1.46	-0.22	3.89	+1.65	3.29	+0.43	3.95	-1.52	2.18	-1.81	15.89	†11.91	3.10	-0.50	4.04	-0.19	3.18	+0.66	4.58	+2.92	0.35	-1.19	46.70	†11.37

† Indicates plus. * Indicates minus.

Monthly and Annual Mean Temperatures for the Year 1922, with Departures.

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Northeast Plain.																										
Brunswick	27.0	+ 0.2	31.8[a]	+ 3.3	44.0	+ 2.9	55.0	+ 0.6	68.0	+ 3.6	77.3	+ 4.5	76.6	+ 1.4	77.9	+ 4.5	71.4	+ 5.3	59.0	+ 4.2	47.0	+ 5.8	30.8	+ 0.2	55.5	+ 3.0
Clifton Hill	27.9	− 1.0	35.1	+ 7.8	44.2	+ 3.6	56.0	+ 2.4	65.1	+ 0.9	76.7	+ 4.4	76.1	+ 0.1	76.8	+ 0.9	70.5	+ 1.9	59.2	+ 2.3	46.8	+ 3.1	34.0	+ 3.3	55.7	+ 2.5
Columbia	28.4	− 1.4	34.4	+ 4.0	44.7	+ 1.7	56.0	+ 1.4	66.2	+ 1.6	75.6	+ 2.5	75.8	− 1.2	76.6	+ 0.5	70.8	+ 1.8	59.4	+ 1.6	47.4	+ 3.1	34.3	+ 1.1	55.8	+ 2.3
Downing	24.2	......	30.1	......	41.4	......	54.5	......	66.5	......	75.4	......	75.2	......	75.8	......	69.8	......	59.2	.. ..	48.4	......	31.8	....	54.4	......
Fayette	24.1	− 3.3	28.5	− 1.5	40.4[e]	− 1.3	51.8	− 3.1	64.2	− 0.3	75.0	+ 1.8	75.1	− 2.3	74.8	− 1.4	67.6	− 0.8	55.4	− 2.4	43.8	+ 1.2	28.8[a]	− 2.7	52.5	− 1.3
Fulton	28.2	− 1.7	36.2	+ 4.0	44.4	+ 0.6	57.3	+ 2.9	67.1	+ 2.0	76.4	+ 3.1	78.8	+ 0.9	81.1	+ 4.8	73.0	+ 4.2	59.7	+ 2.1	47.6	+ 3.1	36.5	+ 2.8	57.2	+ 2.4
Hannibal	27.1	+ 0.4	33.0	+ 3.9	43.7	+ 2.1	55.1	+ 1.5	67.4	+ 3.0	76.0	+ 2.7	75.8	− 1.6	76.0	+ 1.0	70.2	+ 2.3	59.1	+ 3.2	46.0	+ 5.5	32.3	+ 1.0	55.1	+ 2.0
Jefferson City	29.3	− 0.5	36.7	+ 5.8	45.0	+ 1.8	56.3	+ 0.2	67.2	+ 2.3	76.6	+ 2.6	77.1	− 1.0	77.6	+ 0.9	71.6	+ 2.5	59.4	+ 2.7	47.0	+ 2.9	35.2	+ 2.4	56.6	+ 1.9
Kirksville	25.4	+ 0.5	31.4	+ 6.5	40.4	+ 1.8	53.6	+ 1.7	64.8	+ 2.4	74.1	+ 2.2	74.2	− 1.9	75.0	+ 1.2	69.4	+ 3.4	58.2	+ 4.2	45.8[a]	+ 5.5	31.0	+ 1.6	53.6	+ 2.4
Louisiana	28.6	+ 0.7	36.6	+ 8.2	45.4	+ 3.1	56.1	+ 2.4	67.4	+ 3.5	75.6	+ 3.9	77.7	+ 1.7	76.9	+ 2.2	70.2	+ 2.3	59.2	+ 3.1	47.2	+ 3.1	34.8	+ 3.8	56.3	+ 3.2
Macon	24.7	− 4.0	30.0	+ 1.9	41.5	− 0.7	54.0	+ 0.1	66.4	+ 2.3	76.0	+ 3.6	75.2	− 2.2	76.4	− 0.3	69.4	+ 1.0	57.8	+ 0.5	43.8	− 0.4	28.8	− 1.7	53.7	0.0
Mexico	26.5	− 2.1	31.8	+ 3.1	42.6	+ 1.3	54.1	− 0.2	66.6	+ 2.1	77.1	+ 3.5	76.2	− 1.1	76.7	+ 0.6	68.2	− 0.6	57.7	+ 1.2	45.4	+ 2.3	31.2	− 1.0	54.5	+ 0.8
Palmyra.	22.2	− 6.2	29.0	+ 2.2	42.6[a]	+ 3.2	54.1	− 0.5	66.4	0.0	75.2	+ 0.8	75.4	− 3.7	75.6	− 1.1	69.0	+ 0.4	57.8	+ 0.4	44.4	+ 1.3	28.6[a]	− 1.6	53.4	− 0.4
St. Catharine	26.8	+ 0.4	32.3	+ 3.3	42.2	− 0.3	54.4	+ 3.0	65.4	+ 2.9	74.2	+ 1.7	74.5	− 1.6	75.4	+ 1.3	69.0	+ 1.2	58.7	+ 2.8	46.1	+ 3.1	32.8	+ 3.1	54.3	+ 1.7
St. Charles	29.0	− 2.2	36.0	+ 4.3	45.4	+ 1.9	58.1	+ 2.5	68.4	+ 6.0	78.0	+ 4.0	78.6	+ 0.9	79.1	+ 2.6	73.2	+ 6.0	62.0	+ 4.1	48.8	+ 3.5	36.6	+ 1.6	57.8	+ 2.9
St. Louis(1)	30.2	− 0.6	36.4	+ 1.9	46.2	+ 2.4	58.2	+ 2.4	69.4	+ 2.5	78.2	+ 3.4	78.8	+ 0.2	79.1	+ 1.8	73.8	+ 3.7	62.2	+ 3.8	48.8	+ 3.7	36.7	+ 1.9	58.2	+ 2.2
St. Louis(2)	29.4	− 0.8	35.7	+ 3.5	45.2	+ 1.6	57.3	+ 2.1	68.1	+ 2.0	77.7	+ 2.8	78.4	− 1.7	78.3	+ 1.1	73.0	+ 2.8	61.4	+ 2.5	48.1	+ 1.6	35.8	+ 1.5	57.4	+ 1.6
Steffenville	25.2	− 3.2	33.2	+ 5.9	43.0	+ 1.6	55.2[a]	+ 2.0	67.3	+ 3.0	76.8	+ 4.0	78.2	+ 1.0	78.5	+ 2.0	73.5	+ 4.8	62.6	+ 5.4	48.0	+ 4.2	33.2	+ 2.8	56.2	+ 2.8
Unionville	25.6	+ 2.3	30.8	+ 6.5	41.4	+ 4.0	53.2	+ 2.1	65.0	+ 2.4	73.8	+ 1.8	73.9	− 2.8	74.4	− 0.9	68.6	+ 1.3	57.6	+ 2.2	44.6	+ 4.6	30.6	+ 3.2	53.3	+ 2.2
Warrenton	26.4	− 2.8	33.0	+ 3.6	43.6	+ 2.1	55.4	+ 0.6	67.3	+ 2.2	77.5	+ 4.1	77.6[a]	0.0	77.8	+ 1.4	71.4	+ 2.6	60.0	+ 4.6	46.1	+ 3.2	33.4	+ 1.3	55.8	+ 1.9
Keokuk, Ia	25.3	+ 1.6	30.6	+ 4.0	42.8	+ 4.9	53.8	+ 1.8	66.4	+ 3.2	75.0	+ 2.5	75.5	− 1.5	75.8	+ 1.2	70.0	+ 3.6	59.4	+ 4.0	45.4	+ 4.3	30.5	+ 1.1	54.2	+ 2.0
Southeast Lowlands.																										
Caruthersville	38.6	− 0.4	45.6	+ 6.7	53.2	+ 2.0	66.2	+ 6.0	75.2	+ 5.7	84.0	+ 6.2	83.0	+ 2.4	82.9	+ 3.2	80.1	+ 6.7	65.7	+ 4.0	55.0	+ 5.1	45.7	+ 5.7	64.6	+ 4.4
Doniphan	33.4	− 2.8	41.4	+ 3.3	48.5	− 0.9	60.4	+ 2.4	69.0	+ 2.1	78.0	+ 3.2	78.8	+ 0.6	77.7	+ 0.3	71.2	+ 0.4	59.0	+ 0.6	48.8	+ 1.2	40.4	+ 3.0	58.9	+ 1.4
Jackson	33.0	− 1.0	40.4	+ 4.9	49.0	+ 1.8	59.6	+ 2.7	69.8	+ 4.0	77.6	+ 3.5	78.2	+ 0.8	76.8	+ 0.6	72.6	+ 2.7	60.4	+ 2.4	49.4	+ 2.7	38.3	+ 1.7	58.8	+ 2.2
Marble Hill	31.8	− 3.0	40.4	+ 5.1	48.7	+ 1.3	59.6	+ 2.9	68.0	+ 2.3	77.2	+ 3.3	77.2	− 0.1	76.8	− 0.2	71.8	+ 1.4	60.1	+ 2.1	49.3	+ 4.9	39.2	+ 3.0	58.3	+ 1.9
Poplar Bluff	35.1	− 1.5	43.0[c]	+ 6.7	53.2[d]	+ 4.4	62.2	+ 3.0	70.2	+ 2.2	79.0	+ 3.6	79.8	+ 1.1	79.4	+ 1.4	74.0	+ 2.7	62.3	+ 2.0	51.8	+ 4.4	40.3	+ 3.5	60.9	+ 2.8
Cairo, Ill	34.3	− 0.5	40.9	+ 3.3	49.2	+ 2.2	60.8	+ 2.5	70.4	+ 2.9	78.3	+ 3.1	78.6	0.0	77.6	+ 0.6	74.2	+ 2.7	62.0	+ 1.6	50.7	+ 3.4	41.4	+ 3.6	59.9	+ 2.3
Ozark Plateau																										
Arcadia	29.8	− 2.3	35.8	+ 2.3	44.0	− 0.8	57.3	+ 2.0	65.7	+ 1.1	74.6	+ 2.6	75.1	0.8	74.7	+ 0.2	68.7	+ 1.1	57.5	+ 1.4	47.0	+ 3.0	35.2	+ 0.9	55.4	+ 0.9
Birchtree	32.4[a]	− 2.0	40.0[a]	+ 5.1	46.1	− 1.3	58.2	+ 1.4	66.8	+ 1.6	75.5[a]	+ 2.8	76.2	− 0.2	76.2[a]	+ 0.3	70.8[b]	+ 1.3	61.4[a]	+ 3.2	48.6	+ 2.1	38.2[a]	+ 2.4	57.5	+ 1.4
Bolivar	30.1	− 3.8	39.0	+ 4.6	46.5	+ 0.4	58.8	+ 2.7	66.6	+ 1.7	76.2	+ 3.4	78.0	+ 0.9	77.8	+ 0.8	73.0	+ 3.4	60.1	+ 1.6	48.0	+ 1.2	39.9	+ 4.1	57.8	+ 1.8
Dean	32.8[a]	− 3.4	40.2[c]	+ 5.4	47.6	− 1.3	59.4[a]	+ 2.1	65.7	− 0.1	73.8	+ 0.8	76.4[a]	− 1.2	76.6	− 0.9	72.0	+ 1.3	59.8	− 0.1	....	......	38.4	+ 1.0	.. ..	......
Eldon	27.0	− 4.4	33.6	+ 1.7	41.0	− 2.5	53.0	− 2.4	65.9[i]	+ 1.4	76.6	+ 3.4	77.1	+ 0.1	78.1	+ 1.7	72.2	+ 2.9	59.9	+ 2.2	49.2	+ 4.0	37.5	+ 3.2	55.9	+ 0.9
Farmington	30.6	− 2.2	37.9	+ 2.3	46.6	− 0.3	58.9	+ 2.0	67.8	+ 4.0	75.7	+ 3.1	76.2	− 0.9	76.5	+ 1.7	70.4	+ 1.1	59.2	+ 2.8	47.8	+ 3.5	37.9	+ 0.9	57.1	+ 1.5
Gano	29.3	− 3.6	36.6	+ 2.1	44.5	− 2.4	56.8	+ 1.2	65.4	+ 0.1	74.6	+ 1.8	75.2	− 1.7	76.0	− 0.1	70.4	+ 0.9	59.6	+ 1.6	46.3	− 0.5	37.0	+ 1.8	56.0	+ 0.1
Goodland	30.4	− 2.2	38.0	+ 5.1	45.8	+ 0.9	57.7	+ 3.1	65.2	+ 0.7	74.0	+ 1.9	75.4	− 0.2	75.1	+ 0.6	69.8	+ 2.5	57.8	+ 2.0	47.1	+ 2.5	37.8	+ 3.4	56.2	+ 1.7
Greenville	....	......	....	......	....	......	....	.. ...	....		..	......	77.4		75.6	......	70.5	....	58.9	......	48.0	......	40.4	......	....	......
Hollister	36.8	+ 0.8	43.2	+ 5.2	48.3	− 0.4	60.3	+ 0.6	66.4	− 0.9	77.2	+ 1.5	79.1	− 0.3	80.4	+ 2.5	74.4	+ 2.8	61.0	+ 0.6	51.6	+ 3.4	45.5	+ 5.8	60.4	+ 1.8
Houston	33.0	+ 0.4	39.4	+ 5.2	46.6	0.0	58.8	+ 3.0	66.2	+ 1.3	75.4	+ 3.1	76.2	+ 0.1	75.8	− 1.2	71.0	+ 2.4	58.4	+ 1.2	48.6	+ 2.1	37.8	+ 1.9	57.3	+ 1.6
Koshkonong	34.6	− 1.9	41.8[a]	+ 4.3	49.0	− 0.6	60.4	+ 2.6	69.1[b]	+ 2.3	77.6[d]	+ 3.3	79.4[a]	+ 1.1	78.6	+ 0.9	74.2	+ 3.3	62.2	+ 2.2	49.8	+ 0.4	41.6	+ 4.0	59.9	+ 1.8
Lebanon	29.0	− 4.0	35.4	+ 1.5	44.0	− 1.4	57.4	+ 1.7	66.8	+ 1.2	76.0	+ 2.9	77.0	+ 0.1	76.8	+ 0.5	71.0	+ 1.5	59.0	+ 1.0	47.8	+ 1.8	37.8[c]	+ 2.8	56.5	+ 0.8
Lockwood	32.4	− 0.9	38.4	+ 2.9	46.7	− 1.2	57.8	+ 1.8	67.0	+ 2.4	76.4	+ 2.4	77.6	0.0	76.6	− 0.6	73.2	+ 1.9	61.3	+ 2.7	48.4	+ 0.7	39.8	+ 4.3	58.0	+ 1.4
Mountain Grove	29.6	− 3.6	34.8	+ 1.0	43.2	− 2.8	57.0	+ 2.8	65.8	+ 1.9	75.7	+ 4.1	76.0	0.0	76.2	+ 1.1	72.2	+ 3.8	60.2	+ 2.6	46.7	+ 0.1	36.6	+ 2.3	56.2	+ 1.1
Neosho	33.4	− 1.7	41.2	+ 4.6	47.8	− 0.4	60.2	+ 2.2	67.0	+ 0.8	74.6	+ 0.7	77.3	− 0.3	78.0	+ 1.1	71.6	+ 1.3	60.8	+ 1.6	49.6	+ 2.4	42.2	+ 5.5	58.6	+ 1.5
Rolla	29.8	− 1.5	34.9	− 0.3	44.4	− 0.6	57.2	+ 2.2	68.1	+ 3.6	77.7	+ 4.9	77.9	+ 0.5	78.0	+ 2.2	72.6	+ 4.6	61.0	+ 5.1	48.8	+ 3.9	39.8	+ 6.2	57.5	+ 2.6
Seligman	34.7	0.0	42.2	+ 6.0	47.0	+ 0.8	59.7	+ 3.9	66.2	+ 1.3	75.0	+ 2.5	76.6[a]	0.0	77.8	+ 2.2	73.8	+ 5.0	61.6	+ 3.3	49.4	+ 2.2	43.8	+ 7.2	59.0	+ 2.9
Seymour	31.7	− 2.6	39.6	+ 7.2	47.0	+ 1.8	59.0	+ 3.6	67.6	+ 3.5	76.8	+ 4.8	75.0	− 0.5	75.0	0.0	71.0	+ 2.4	59.3	+ 1.8	47.0	+ 0.9	39.2	+ 4.8	57.4	+ 2.3
Springfield	31.8	+ 0.5	38.2	+ 4.6	45.2	+ 1.7	57.6	+ 1.9	66.4	+ 1.8	75.7	+ 3.4	76.4	0.0	77.7	+ 2.2	72.7	+ 4.8	61.0	+ 3.7	48.1	+ 3.7	39.2	+ 3.7	57.5	+ 2.7
Southwest Plain.																										
Amoret	29.0	− 1.5	35.2	+ 1.5	44.3	+ 0.4	55.6	+ 1.1	65.4	+ 1.9	75.2	+ 1.7	75.7	− 1.9	78.4	+ 2.0	71.4	+ 2.7	58.6	+ 1.5	47.2	+ 1.7	36.7[c]	+ 4.2	56.1	+ 1.3
Appleton City	30.4	− 0.9	37.6	+ 5.3	46.3	+ 1.7	57.5	+ 1.7	67.2	+ 2.2	77.1	+ 2.3	77.2[b]	− 1.1	79.4	+ 1.6	73.1	+ 2.8	60.9	+ 1.8	48.6	+ 2.5	38.4	+ 4.1	57.8	+ 2.0
Clinton	30.6	− 0.8	37.6	+ 5.7	46.8	+ 2.5	59.2	+ 3.5	69.1[b]	+ 3.9	78.8	+ 5.4	78.6	+ 1.1	80.4	+ 3.6	73.8	+ 3.6	59.7	+ 1.1	47.1	− 0.2	36.2	+ 1.8	58.2	+ 2.6
Harrisonville	28.0	+ 0.8	32.4	+ 2.7	42.3	+ 1.4	54.0	+ 0.2	66.2	+ 2.2	75.8	+ 2.4	75.8	− 2.0	77.6	+ 1.8	70.0	+ 1.7	59.2	+ 3.2	45.4	+ 3.0	33.8	+ 2.6	55.0	+ 1.7
Lamar	30.8	− 1.6	38.6	+ 4.1	45.5	− 0.7	57.2	+ 0.6	67.5	+ 1.6	75.8	+ 1.4	77.0	− 1.5	78.4	+ 0.9	73.1	+ 2.5	61.3	+ 2.4	47.8	+ 1.2	37.0	+ 1.8	57.5	+ 1.1
Lamonte	29.0	+ 0.3	35.0	+ 3.4	44.7	+ 1.0	56.4	+ 1.3	67.0	+ 2.3	77.0	+ 2.7	77.8	− 1.7	79.5	+ 2.8	73.2	+ 3.1	60.0	+ 2.0	48.3	+ 3.9	35.0	+ 0.8	56.9	+ 1.8
Marshall	27.9[a]	+ 0.3	35.0[a]	+ 5.5	44.8[a]	+ 2.3	56.4	+ 2.0	66.6[a]	+ 2.5	76.6[a]	+ 2.7	76.0[b]	− 1.3	79.0[b]	+ 3.4	71.0	+ 2.7	59.2	+ 2.6	47.1	+ 1.5	36.1[b]	+ 4.5	56.3	+ 2.4
Nevada	30.0	− 1.7	37.2	+ 5.3	46.7	+ 2.4	57.4	+ 2.3	66.2	+ 1.6	75.6	+ 2.0	75.4	− 4.8	77.2	+ 0.3	72.2	+ 3.1	59.8	+ 2.5	47.9	+ 3.5	38.2	+ 4.3	57.0	+ 1.7
Warsaw	30.6	− 2.2	38.0	+ 4.2	47.1	+ 0.2	58.7	+ 2.9	67.2	+ 1.4	77.4	+ 3.7	77.0	− 1.3	78.0	+ 0.6	72.1	+ 2.1	59.8	+ 0.7	47.2	− 0.3	39.2	+ 4.4	57.7	+ 1.4
Northwest Plateau.																										
Avalon	27.5	− 1.1	33.4	+ 4.6	43.3	+ 2.0	55.4	+ 1.7	67.0	+ 3.8	76.4	+ 3.3	75.8	− 3.1	77.2	+ 0.6	70.4	+ 0.8	60.0	+ 1.5	47.5	+ 3.7	33.4	+ 1.0	55.6	+ 1.6
Bethany	25.3	+ 0.6	31.4	+ 5.2	42.4	+ 3.5	54.2	+ 3.0	64.8	+ 2.4	74.0	+ 2.1	....	......	76.5[b]	+ 1.8	71.0[f]	+ 4.3	57.1[b]	+ 2.8	45.6[a]	+ 2.2	29.5	− 1.4	....	......
Chillicothe	....	......	....	......	41.4	+ 1.0	53.4	− 1.1	65.5	+ 2.4	74.6	+ 0.8	74.7	− 3.1	75.3	− 0.6	68.6	− 1.8	57.2	+ 2.1	45.4	+ 3.0	29.8	......	....	......
Conception	25.6	+ 0.8	29.8	+ 3.4	42.2	+ 3.8	54.1	+ 1.8	65.2	+ 3.5	76.2	+ 5.1	75.4	− 0.5	77.2	+ 3.1	70.2	+ 3.2	59.8	+ 4.4	44.9	+ 3.5	30.1	+ 0.4	54.2	+ 2.7
Edgerton	28.0	......	32.4[e]	......	44.2[c]	......	55.3[c]	......	65.6[a]	......	73.3[h]	......	74.2[h]	......	75.8[c]	......	64.5[f]	...	...	......	43.4[d]	......	29.6[b]	......	....	......
Grant City	28.2	+ 3.6	32.4	+ 5.8	44.0	+ 4.1	55.4	+ 3.1	65.6	+ 3.5	74.8	+ 3.9	74.4[d]	− 1.2	75.4	+ 0.4	69.1	+ 2.1	58.8	+ 3.6	45.8	+ 3.0	31.2	+ 3.2	54.6	+ 2.9
Kansas City	29.7	+ 3.5	33.3	+ 3.4	45.0	+ 4.2	55.8	+ 1.5	66.8	+ 2.3	77.2	+ 4.2	76.9	− 0.7	78.6	+ 2.8	72.0	+ 4.5	60.6	+ 4.8	47.8	+ 6.3	34.7	+ 3.2	56.5	+ 3.5
Kidder	34.0[e]	+ 7.5	28.6	+ 1.9	41.0	+ 0.6	52.8	− 0.1	65.2	+ 2.2	74.7	+ 2.6	75.7	− 1.0	76.7	+ 1.2	69.6	+ 2.1	57.0	+ 0.8	43.9	+ 1.6	31.8	+ 2.3	54.2	+ 1.8
Lexington	29.4	+ 1.9	35.0	+ 5.6	45.4	+ 2.5	56.2	+ 2.1	67.0	+ 2.6	76.4	+ 3.6	76.5	− 0.6	77.5	+ 1.5	71.2[a]	+ 2.7	61.6	+ 4.1	48.5	+ 4.5	35.9	+ 4.4	56.7	+ 2.9
Liberty	29.5	+ 0.7	35.0	+ 5.6	44.9	+ 2.8	56.6	+ 1.1	67.0	+ 2.3	76.7	+ 3.0	76.4	− 1.3	78.3	+ 1.7	71.6	+ 2.1	59.8	+ 2.4	47.0	+ 3.3	34.2	+ 2.3	56.4	+ 2.2
Maryville	26.0	+ 3.8	29.7	+ 6.4	42.3	+ 6.0	53.2	+ 2.6	64.4	+ 3.4	74.4	+ 5.5	74.0	− 1.5	75.6	+ 1.9	69.0	+ 3.6	58.0	+ 4.8	45.4	+ 6.4	30.0	+ 3.7	53.5	+ 3.9
Oregon	26.0	+ 2.2	30.0	+ 2.0	41.9	+ 3.0	53.6	+ 0.9	62.8	− 0.5	73.6	+ 1.3	74.4	− 1.0	76.0	+ 0.9	69.0	+ 1.9	57.8	+ 2.9	44.7	+ 4.5	30.4	+ 1.9	53.4	+ 1.7
St. Joseph	27.8	+ 1.0	31.2	+ 1.4	43.6	+ 0.9	55.2	+ 1.4	66.0	+ 1.5	76.2	+ 2.3	76.1	− 3.1	77.9	+ 0.5	71.6	+ 2.9	59.4	+ 3.1	46.3	+ 1.9	31.2	+ 1.3	55.2	+ 1.3
Tarkio	25.2	+ 3.2	28.4	+ 1.6	41.2	+ 2.4	53.0	− 0.3	63.6	0.0	74.0	+ 1.2	73.4	− 3.4	75.2	− 0.7	69.0	+ 2.8	57.1	+ 1.6	44.7	+ 4.6	28.5	+ 3.3	52.8	+ 1.4
Trenton	26.6	− 0.4	31.0	+ 3.3	42.2	+ 2.0	53.8	+ 0.6	65.8	+ 1.9	75.0	+ 2.6	74.8	− 1.7	75.4[a]	+ 0.3	66.9[h]	+ 0.6	57.0	+ 0.5	46.2	+ 3.6	31.8	+ 2.0	53.9	+ 1.3

Letters of alphabet indicate number of days missing from report: thus [a] one day; [b] two days, etc.

SUMMARY—*Continued from Page 49.*

OCTOBER.—Nearly steady warmth prevailed all month, the first and last weeks being summer-like. In most sections the growing season was closed by heavy to killing frosts on the 12th, 17th, and 18th, but there were some localities in the east and south where there was no freeze at all. Precipitation was less than usual but it was well distributed and sufficient for needs. Altogether an ideal month for outdoor pursuits. The usual farm work was well up. Roads fine.

NOVEMBER.—Nearly the whole month was mild and pleasant. Many afternoons during the first week were summer-like. The month's precipitation was moderate to large, but fell on 7 or 8 days, being mostly confined to the first half. The Grand River was out of banks for a short time. Winter wheat started off well. Live stock remained on pasture. All farm work was well in hand. Highways in good condition.

DECEMBER.—Except a touch of real winter cold during the second decade, December was a pleasant and open month. On Christmas Day temperatures ranged between 60° and 70° generally, being the warmest Christmas since 1889. Winter wheat, having been seeded under favorable autumn conditions, looked healthy and made satisfactory progress. Live stock remained on pasture much of the time. Fruit buds were healthy. Highways generally excellent.

Comparative Annual Data for the State.

Year	Temperature			Precipitation	Year	Temperature			Precipitation
	Mean	Maximum	Minimum			Mean	Maximum	Minimum	
1888	52.9	111	−32	41.22	1906	55.1	101	−13	37.34
1889	54.3	107	− 9	37.91	1907	55.6	109	−15	41.81
1890	54.7	106	−19	35.71	1908	56.7	102	−10	42.56
1891	53.9	108	−11	38.04	1909	56.7	110	−20	45.16
1892	53.4	101	−11	42.76	1910	55.0	109	−24	36.86
1893	52.7	107	−20	38.19	1911	56.9	113	−19	38.94
1894	55.1	111	−35	33.18	1912	53.6	105	−36	38.68
1895	52.9	106	−26	39.30	1913	56.5	110	−12	37.47
1896	55.5	108	−10	44.63	1914	56.1	109	−18	34.72
1897	55.0	108	−16	38.82	1915	54.8	102	−24	49.62
1898	54.4	104	−20	53.67	1916	55.2	109	−29	40.33
1899	54.0	108	−32	37.32	1917	52.3	107	−23	31.94
1900	55.6	105	−16	38.34	1918	55.5	111	−25	37.16
1901	55.5	116	−29	25.28	1919	55.2	106	−23	40.05
1902	54.1	103	−17	44.96	1920	54.3	105	−10	37.17
1903	53.6	102	−25	40.15	1921	58.2	109	− 8	43.77
1904	53.2	100	−23	41.62	1922	56.8	108	− 6	39.99
1905	53.6	103	−40	45.43	Average 35 yrs.	54.8	116	−40	39.72

Monthly Data of the State for 1922

Month	Temperature				Precipitation				
	Mean	Departure from Normal	Maximum	Minimum	Mean	Departure from Normal	Greatest	Least	No. Days with .01 or more
January	29.5	− 0.6	66	− 6	1.21	−1.05	6.15	0.32	5
February	35.4	+ 4.1	80	− 5	1.79	−0.44	4.28	0.84	5
March	45.6	+ 1.4	80	3	6.46	+3.38	13.29	1.45	12
April	57.3	+ 1.9	91	24	6.21	+2.42	14.34	1.72	11
May	67.2	+ 2.3	97	38	3.17	−1.77	6.86	1.01	10
June	76.5	+ 3.1	108	43	1.66	−2.89	3.57	0.18	5
July	76.8	− 0.7	103	46	5.85	+1.82	17.68	1.92	8
August	77.5	+ 1.2	107	46	2.40	−1.60	6.22	0.13	6
September	71.7	+ 2.6	107	34	3.31	−0.57	8.22	0.15	5
October	59.9	+ 2.4	97	18	2.00	−0.77	3.83	0.51	5
November	47.8	+ 2.9	87	15	3.82	+1.45	6.75	1.11	7
December	36.3	+ 2.9	75	− 6	2.11	−0.14	5.25	0.00	6
Year	56.8	+ 2.0	108	− 6	39.99	−0.16	17.68	0.00	85

KILLING FROSTS, 1922.

Stations.	Last in Spring.	First in Autumn.	Days in Growing Season.
Northeast Plain.			
Brunswick	April 1	Oct. 17	198
Clifton Hill	April 18	Oct. 17	181
Columbia	Mar. 22	Oct. 17	208
Downing	April 1	Oct. 12	193
Fayette	April 18	Oct. 17	181
Fulton	Mar. 31	Oct. 18	200
Hannibal	April 1	Oct. 17	198
Jefferson City	Mar. 31	Oct. 18	200
Kirksville	April 18	Oct. 12	176
Louisiana	April 1	Oct. 18	199
Macon	April 18	Oct. 12	176
Mexico	April 1	Oct. 17	198
Palmyra	Mar. 31	Oct. 17	199
St. Catharine	April 12	Oct. 17	187
St. Charles	Mar. 25	Nov. 16	235
St. Louis (1)	Mar. 8	Nov. 16	252
St. Louis (2)	Mar. 22	Nov. 16	238
Steffenville	April 18	Oct. 12	176
Unionville	April 29	Oct. 11	164
Warrenton	April 1	Nov. 9	221
Keokuk, Iowa	Mar. 31	Oct. 17	199
Southeast Lowlands			
Caruthersville	Mar. 4	Nov. 21	261
Doniphan	Mar. 22	Oct. 17	208
Jackson	April 20	Oct. 18	180
Marble Hill	April 20	Oct. 13	175
Poplar Bluff	Mar. 22	Oct. 18	209
Cairo, Ill.	Mar. 8	Nov. 16	252
Ozark Plateau.			
Arcadia	April 20	Oct. 13	175
Birchtree	April 20	Oct. 18	180
Bolivar	Mar. 22	Oct. 18	209
Dean	April 19	Oct. 10	173
Eldon	April 20	Oct. 18	180
Farmington	Mar. 31	Oct. 17	199
Gano	April 12	Oct. 18	188
Goodland	April 20	Oct. 13	175
Ozark Plateau (continued)			
Greenville	April 20	Oct. 13	175
Hollister	April 20	Oct. 18	180
Houston	Mar. 22	Oct. 18	209
Koshkonong	Mar. 22	Nov. 16	238
Lebanon	April 19	Oct. 18	181
Lockwood	Mar. 22	Oct. 18	209
Mountain Grove	Mar. 22	Oct. 18	209
Neosho	April 18	Oct. 18	182
Rolla	Mar. 31	Oct. 18	200
Seligman	April 1	Oct. 18	199
Seymour	April 20	Oct. 18	180
Springfield	April 1	Oct. 18	199
Southwest Plain.			
Amoret	April 18	Oct. 17	181
Appleton City	April 1	Oct. 18	199
Clinton	April 1	Oct. 18	199
Harrisonville	April 18	Oct. 17	181
Lamar	April 1	Oct. 18	199
Lamonte	April 18	Oct. 17	181
Marshall	April 18	Oct. 12	176
Nevada	April 18	Oct. 18	182
Warsaw	April 1	Oct. 19	200
Northwest Plateau.			
Avalon	April 1	Oct. 12	193
Bethany	April 29	Oct. 9	162
Chillicothe	April 18	Oct. 12	176
Conception	April 1	Oct. 12	193
Edgerton	April 18	Oct. 12	176
Grant City	April 18	Oct. 12	176
Kansas City	Mar. 28	Oct. 17	196
Kidder	April 1	Oct. 12	193
Lexington	April 18	Oct. 17	181
Liberty	April 18	Oct. 17	181
Maryville	April 18	Oct. 12	176
Oregon	April 18	Oct. 12	176
St. Joseph	April 18	Oct. 17	181
Tarkio	April 18	Oct. 9	173
Trenton	April 29	Oct. 12	165

Evaporation Data at Columbia, Mo., May to October, inclusive, 1916 to 1922.

		STATION No. 1, West Campus, University of Missouri							STATION No. 2, Experiment Farm, University of Missouri						
	Month	May	June	July	Aug.	Sept.	Oct.	Seasonal Totals	May	June	July	Aug.	Sept.	Oct.	Seasonal Totals
1916	Evaporation, inches	4.985	5.165	7.520	6.540	3.840	2.454	30.50	5.693	6.258	9.483	8.216	5.800	4.100	39.55
	Rainfall, inches	2.51	3.64	0.67	2.04	4.43	1.55	14.84	5.72	3.50	0.74	2.27	4.40	1.51	18.14
	Wind Movement, miles	1178	1057	616	798	808	1164	5621	2158	1879	1986	1562	1180	1764	10529
	Mean Temperature, degrees	65.0	69.0	81.4	79.0	66.8	58.0	419.2	....	....	....	....	....	....	....
1917	Evaporation, inches	4.452	6.252	7.275	5.490	3.811	2.728	30.02	5.545	7.178	9.926	6.600	5.293	3.913	38.46
	Rainfall, inches	4.89	2.66	0.93	5.27	2.38	0.72	16.85	4.55	2.60	0.88	5 17	2.18	0.65	16.03
	Wind Movement, miles	1331	922	830	840	809	1511	6243	3319	2496	2209	1606	1628	3238	14496
	Mean Temperature, degrees	58.6	70.9	77.6	72.3	67.5	48.6	395.5	....	....	....	....	....	....	....
1918	Evaporation, inches	5.261	7.687	7.637	7.280	3.084	2.292	33.24	6.717	8.905	9.130	8.434	4.837	3.599	41.12
	Rainfall, inches	3.95	2.68	0.73	7.83	9.69	1.99	26.87	4.09	3.25	0.73	6.96	9.51	1 88	26.42
	Wind Movement, miles	1120	917	868	847	681	991	5424	2943	2100	1718	1825	1569	2324	12479
	Mean Temperature, degrees	68.8	76.8	77.2	81.7	61.4	60.1	426.0	....	....	....	....	....	....	....
1919	Evaporation, inches	4.022	5.367	7.382	6.292	4.009	2.015	29.09	4.794	6.269	8.187	7.202	5.705	2.802	34.96
	Rainfall, inches	6.21	3.96	2.52	5.37	3.31	7.68	29.05	6.58	4.10	2.30	5.30	3.46	7.96	29.70
	Wind Movement, miles	1023	649	533	707	557	696	4165	2294	1641	1196	1615	1444	1935	10125
	Mean Temperature, degrees	61.5	75.1	78.9	74.7	71.1	57.6	418.9	....	....	....	....	....	....	....
1920	Evaporation, inches	4.485	6.919	7.011	5.020	3.331	2.254	29.02	5.166	8.421	9.080	6.186	4.872	3.741	37.47
	Rainfall, inches	4.48	1.49	2.61	3.50	4.47	2.67	19.02	4.17	1.20	2.16	3.31	4.02	2.61	17.47
	Wind Movement, miles	1088	825	787	513	518	782	4513	2717	1944	1684	1335	1598	1770	11048
	Mean Temperature, degrees	63.0	72.8	75.8	73.0	69.6	61.6	415.8	....	....	....	....	....	....	....
1921	Evaporation, inches	5.131	5.166	7.189	5.348	3.350	2.490	28.67	5.873	6.512	8.625	6.767	4.987	3.829	36.59
	Rainfall, inches	4.15	3.19	2.48	6.04	10.04	2.33	28.23	3.85	3.05	2.11	5.44	10.03	2.31	26.79
	Wind Movement, miles	736	425	470	442	497	710	3280	1689	1428	1186	1367	1342	1601	8613
	Mean Temperature, degrees	65.8	75.7	79.8	76.4	71.8	57.5	427.0	....	....	....	....	....	....	....
1922	Evaporation, inches	5.239	6.105	6.248	5.686	3.244	2.055	28.58	6.094	7.612	7.702	7.566	5.791	3.838	38.60
	Rainfall, inches	4.34	1.31	4.19	3.30	3.79	1.47	18.40	4.32	1.17	4.03	2.90	3.85	1.57	17.84
	Wind Movement, miles	606	495	505	510	428	557	3101	1911	1399	1527	1428	1247	1552	9064
	Mean Temperature, degrees	66.2	75.6	75.8	76.6	70.8	59.4	424.4	....	....	....	....	....	....	....
Average Evaporation, inches (7 yrs.)		4.798	6.097	7.180	5.951	3.524	2.327	29.87	5.698	7.308	8.876	7.280	5.255	3.689	38.11
Average Wind Movement, miles (7 yrs.)		1012	756	658	665	614	916	4621	2433	1841	1644	1534	1429	2026	10908
Average Rainfall, inches (7 yrs.)		4.36	2.70	2.02	4.76	5.44	2.63	21.92	4.75	2.70	1.85	4.48	5.35	2.64	21.77
Normal Rainfall, inches (32 yrs.)		4.86	4.34	3.65	3.04	2.85	2.42	21.16	....	....	....	....	....	....	....
Average Mean Temperature (7 yrs.)		64.1	73.7	78.1	76.9	68.4	56.1	417.3	....	....	....	....	....	....	....
Normal Mean Temperature (32 yrs.)		64.6	73.2	76.9	76.0	69.0	57.2	416.9	....	....	....	....	....	....	....

Notes and Comparative Data on Evaporation at Columbia, Mo.

There are two evaporation stations. One is located on the West Campus, northwest of Switzer Hall, which we will refer to as No. 1. It is nearly surrounded by houses and trees which make wind-breaks. The other station, which we will call No. 2, is located in a field of the Experiment Farm, about one mile southeast from Station No. 1. It has a free exposure, favorably comparing with what is called sea horizon. Equipments are the same except the rain gage at Station No. 1 is a 12-inch funnel, T. B. The one at Station No. 2 is an 8-inch funnel, stick measurement. Temperatures are taken at Station No. 1 only. For full description of stations see Missouri Annual Summary, 1919, page 100.

	Station No. 1.		Station No. 2.	
	6 mos. May-Oct.	3 mos. June-Aug.	6 mos. May-Oct.	3 mos. June-Aug.
Total evaporation for 7-year period.	209.12 inches.	134.60 inches.	266.75 inches.	164.25 inches.
Average evaporation for 7-year period.	29.87 “	19.73 “	38.11 “	23.46 “
Total rainfall for 7-year period.	153.46 “	66.41 “	152.39 “	78.81 “
Average rainfall for 7-year period.	21.92 “	9.49 “	21.77 “	11.30 “
Normal rainfall, 32 years, 7-year period.	21.16 “	11.03 “	....	....
Total wind movement for 7-year period.	32,347 miles.	13,153 miles.	76,354 miles.	35,133 miles.
Average wind movement for 7-year period.	4,621 “	1,879 “	10,908 “	5,019 “

Six months period, May to October.

Evaporation of Station No. 1 is 78 per cent of evaporation of Station No. 2.

Rainfall of Station No. 1 is 101 per cent of rainfall of Station No. 2.

Wind movement of Station No. 1 is 42 per cent of wind movement of Station No. 2.

Three-months period, June to August.

Evaporation of Station No. 1 is 84 per cent of evaporation of Station No. 2.

Rainfall of Station No. 1 is 86 per cent of rainfall of Station No. 2.

Wind movement of Station No. 1 is 37 per cent of wind movement of Station No. 2.

Three months evaporation at Station No. 1 is 66 per cent of 6 months evaporation.

Three months evaporation at Station No. 2 is 62 per cent of 6 months evaporation.

Three months of rainfall at Station No. 1 is 43 per cent of 6 months rainfall.

Three months of rainfall at Station No. 2 is 42 per cent of 6 months rainfall.

Three months wind movement at Station No. 1 is 41 per cent of 6 months wind movement.

Three months wind movement at Station No. 2 is 46 per cent of 6 months wind movement.

The rainfall for the 7 years averaged 0.76 inch more than the 32-year normal for the same months, but the summers — June to August — averaged drier by 1.57 inches.

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UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

AUG 4 1924

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVII. COLUMBIA, MO., JANUARY, 1923. No. 1.

GENERAL SUMMARY.

January, 1923, was a decidedly mild month in all of Missouri. The marked contrast of temperatures in successive Januarys is shown in table in the lower right-hand corner of this page. In recent years 1918 and 1920 were cold, 1919 mild, and 1921 and 1923 very mild. The last seems to have been the mildest of record, covering 36 Januarys. One feature of January, 1923, stands out prominently, and that is the absence of zero temperatures, 3° above zero being the minimum recorded. Of the 36 Januarys, shown in the table, 21 have quite marked plus departures from the normal. One should not, however, jump to any conclusion from a study of the monthly means alone. A casual glance down the column headed "Lowest" will show that there were some cold days during many of those otherwise mild Januarys.

Nearly the whole month, except the latter half in the southeastern section where it was frequently rainy, was favorable for outdoor pursuits. The public highways were in fine condition most of the time. A large amount of business was done in building materials; but the demand for fuel was somewhat less than normal, as also was the demand for transit feeds.

Winter wheat made good root growth and kept a healthy color. Live stock did well in the open on stalk fields and hay stacks. Considerable plowing was done, and a few farmers finished that work for the spring.

TEMPERATURE.

The monthly mean temperature for the State, based upon the records of 69 stations, was 39.2°, or 8.5° above the normal as determined from 66 stations having records of 10 years or more. It is the warmest January of record, beginning with 1888; even warmer than the same month in 1921, the record breaker up to that time. The mildness was uniformly distributed and marked in all sections. There was only one cold spell, 3rd to the 6th. There were only two winter days, 6th and 23rd. From the 7th to the 21st the daily excess ranged from 8° to 21°, or an average of about 14°; and from the 24th to the 31st the excess in warmth was even more marked. There were no zero temperatures, and in this respect, also, the month seems to stand alone.

PRECIPITATION.

The average for the State, 86 stations reporting, was 2.72 inches. The departure from the normal for 74 stations having 10 or more years' record was plus 1.81 inches. The precipitation was unevenly distributed, the southwestern plain and most of the northern half of the State being unusually dry, while the greater part of the Ozarks and all of the southeastern lowlands were markedly wet. In the northwestern plateau and a considerable part of the northeastern plain the total precipitation was barely appreciable; along the southern slope of the Ozark Plateau eastward to the Mississippi River amounts ranged from 5 to more than 7 inches. There was very little rain during the first 11 days, and it was scanty the last 15 days in most sections north of the Ozarks.

Snow fell in sections north of the Missouri River on the 4th, and 7th, covering the ground to appreciable depths, but it melted quickly. South of the Missouri River there was some local sleet or glaze.

WIND.

The prevailing winds were from the northwest, though much of the time they were southerly. The total movement, 8 stations equipped with anemometers reporting, was 7,751 miles, an average hourly velocity of 10.4 miles. There were no strong winds, save perhaps on the 7th, and 8th, when velocities ranged between 36 and 44 miles.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well placed stations equipped with sunshine recorders reporting, was 149, or 49 per cent of the possible, and about 2 per cent below normal. The sunshine this month was 9 per cent less than the same month last year.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---On the 7th, 25th, 27th, and 31st.
Hail.---At Gano on the 14th, and St. Catharine on the 16th.
Halos, solar.---9th, 11th, 17th, 21st, 22nd, 25th, 28th, and 29th.
Halos, lunar.---1st, 3rd, 5th, 11th, 21st, 23rd, 25th, 28th, and 29th.
Sleet or Glaze.---6th, 7th, 23rd, and 26th.
Thunderstorms.---13th, 14th, and 26th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	30.06	76	67	147	49	7,027	9.4	28	nw.	9
Hannibal	30.06	75	..	...	..	6,795	9.1	30	s.	17
Kansas City	30.06	72	60	189	62	8,656	11.6	43	nw.	7
St. Joseph	30.05	77	63	147	49	6,618	8.9	36	nw.	7
St. Louis	30.07	74	68	150	49	10,710	14.4	44	s.	8
Springfield	30.07	78	64	139	45	8,353	11.2	40	w.	8
Cairo, Ill	30.10	78	63	...	..	7,706	10.4	35	sw.	18
Keokuk, Iowa	30.08	79	68	124	41	6,144	8.3	30	nw.	14

COMPARATIVE DATA FOR JANUARY.

Year.	Temperature. Mean.	Departure.	Highest.	Lowest.	Precipitation. Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of days. With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	21.5	−8.7	74	−32	1.91	−0.08	......	....	6	....	....	....
1889	31.8	+1.6	69	− 2	2.36	+0.37	......	....	6	....	....	....
1890	33.8	+3.6	81	−19	4.25	+2.26	......	....	9	....	....	....
1891	34.1	+3.9	74	− 1	1.52	−0.47	......	4.3	6	....	....	....
1892	24.0	−6.2	67	−25	1.80	−0.19	......	....	4	14	8	9
1893	22.5	−7.7	66	−14	0.45	−1.54	0.90	2.4	3	9	11	11
1894	31.4	+1.2	77	−35	2.21	−0.22	2.96	2.7	5	13	9	9
1895	24.7	−5.5	78	−22	1.49	−0.50	2.20	9.4	5	14	8	9
1896	32.9	+2.7	71	− 9	1.17	−0.82	2.44	3.1	4	10	7	14
1897	28.4	−1.8	72	−16	4.90	+2.91	6.95	4.0	8	12	7	12
1898	34.3	+4.1	75	−10	3.98	+1.99	3.35	8.4	9	11	8	12
1899	30.2	0.0	70	−21	1.55	−0.44	2.40	4.0	6	12	8	11
1900	34.5	+4.3	77	− 9	1.22	−0.77	2.30	0.2	4	14	7	10
1901	35.0	+4.8	72	−11	1.30	−0.69	2.95	0.8	4	17	7	7
1902	30.1	−0.1	72	−17	1.23	−0.76	3.37	6.9	5	16	7	8
1903	31.4	+1.2	73	−11	1.36	−0.63	1.71	5.0	6	13	6	12
1904	27.0	−3.2	66	−23	2.85	+0.86	4.74	7.4	8	14	6	11
1905	22.3	−7.9	72	−19	1.79	−0.20	2.52	6.8	8	14	6	11
1906	35.6	+5.4	76	− 8	3.64	+1.65	3.00	9.2	6	14	5	12
1907	34.3	+4.1	79	− 5	5.10	+3.11	4.42	2.8	12	7	6	18
1908	34.4	+4.2	68	−10	1.51	−0.48	2.13	3.6	5	19	5	7
1909	33.7	+3.5	83	−20	2.17	+0.18	2.10	6.5	7	6	7	18
1910	32.3	+2.1	78	−24	1.83	−0.16	3.98	3.5	5	13	6	12
1911	34.6	+4.4	78	−19	1.20	−0.70	3.03	0.7	5	8	7	16
1912	20.0	−11.3	70	−36	1.06	−1.20	2.56	6.5	4	14	7	10
1913	33.1	+1.8	74	−12	3.67	+1.30	5.30	2.6	8	13	6	12
1914	38.1	+6.9	78	− 1	1.42	−0.92	2.00	1.0	4	12	7	12
1915	29.1	−2.2	76	−24	2.92	+0.59	3.10	5.4	8	12	5	14
1916	31.6	+0.7	72	−24	7.36	+5.16	4.65	3.4	12	9	4	18
1917	32.9	+2.5	76	−10	1.52	−0.64	2.50	2.3	5	15	7	9
1918	16.4	−14.0	67	−24	1.68	−0.71	3.20	16.6	7	12	7	12
1919	34.0	+3.6	70	−23	0.40	−1.88	3.05	1.4	2	20	5	6
1920	28.6	−1.4	72	− 5	1.57	−0.65	4.15	5.7	5	15	5	11
1921	37.1	+7.2	74	− 1	1.88	−0.38	1.45	5.4	6	10	7	14
1922	29.5	−0.6	66	− 6	1 21	−1.05	2.95	3.9	5	14	5	12
1923	39.2	+8.5	75	3	2.72	+1.81	3.52	0.6	6	12	7	12
....	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	....
....	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	....

Climatological Data for January, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	35.7	+ 8.9	62	17	12	6	35	0.40	−1.37	0.26	2.0	3	16	1	14	e.	O. K. Benecke
Clifton Hill	Randolph	731	22	37.0	+ 8.1	60	17	11	6	35	0.60	−1.41	0.24	T.	4	11	4	16	......	Dr. A. J. Bradsher
Columbia	Boone	748	31	38.9	+ 9.1	60	17	20	6	32	1.40	−0.83	0.77	T.	5	9	5	17	w.	U. S. Weather Bureau
Downing	Schuyler	878	11	34.2	......	56	27	5	6	30	0.98	−0.87	0.52	5.0	6	1	9	21	n.	E. E. St. Clair
Fayette††	Howard	661	38	33.4	+ 6.0	55	12†	13	6	32	0.10	−2.01	0.10	0	1	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	29	39.2	+ 9.3	61	11	21	6	31	1.90	−0.71	1.15	T.	3	13	9	9	w.	Westminster College
Gorin	Scotland	700	34	....	......	..	..	..	..	..	0.89	−0.87	0.70	1.5	5	9	6	16	nw.	I. S. McCollom
Hannibal	Marion	534	37	36.5	+ 9.4	58	18	16	6	26	0.75	−1.45	0.44	2.4	8	6	9	16	nw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	38.7	+ 8.9	62	8	22	6	35	1.55	−0.67	0.67	0	4	15	5	11	n.	Miss Emma Swift
Kirksville	Adair	969	39	33.2	+ 8.3	56	14	5	6	30	1.20	−0.44	0.65	4.5	4	9	0	22	w.	Prof. J. S. Stokes
Louisiana	Pike	469	40	37.5	+ 9.6	58	12	15	6	32	0.77	−1.28	0.40	1.0	7	17	3	11	w.	J. T. Farrell
Macon	Macon	875	28	33.4	+ 4.7	60	25	10	6†	39	0.97	−0.89	0.27	1.5	6	16	6	9	sw.	W. C. Brown
Mexico	Audrain	800	43	35.8	+ 7.2	59	11	16	6	31	0.72	−1.46	0.49	0.2	6	16	0	15	w.	Mrs. Abbie Snoddy
Palmyra	Marion	652	22	34.4	+ 6.0	57	13†	12	6	31	1.24	−1.41	0.57	1.8	5	12	5	14	ne.	W. B. Markell
St. Catharine	Linn	800	12	35.8	+ 9.4	58	11	10	6	31	0.79	−0.47	0.26	4.0	5	10	8	13	nw.	L. D. Baker
St. Charles	St. Charles	456	43	38.6	+ 7.4	62	11	22	6	30	1.89	−0.61	1.07	T.	5	7	12	12	nw.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	39.5	+ 8.7	62	18	24	6	25	2.08	−0.19	0.91	0	8	5	11	15	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	39.1	+ 8.9	60	11†	24	6	25	2.17	−0.90	0.93	0	8	5	9	17	se.	St. Louis University
Shelbina	Shelby	779	28	....	......	..	..	..	..	..	0.53	−1.37	0.30	1.0	3	..	..	..	.....	S. G. Parsons
Steffenville	Lewis	650	28	36.0	+ 7.6	56	18	14	22	25	1.94	−0.53	0.50	2.0	8	8	12	11	s.	Frank Hall
Unionville	Putnam	1,062	28	32.6	+ 9.3	57	15	3	22	35	1.30	−0.80	0.80	1.0	5	7	7	17	nw.	Geo. W. Davis
Warrenton	Warren	816	31	36.8	+ 7.6	59	8†	21	6†	31	0.98	−1.48	0.51	T.	7	14	4	13	nw	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	49	33 9	+ 9.0	56	18	12	6	27	1.13	−0.56	0.48	7.3	7	5	7	19	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	36.3	+ 8.3	62	8†	3	22	39	1.19	−0.93	2.17	1.6	6	10	6	15	nw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	47.0	+ 8.0	72	8	28	2	42	7.30	+2.55	2.30	0	9	15	3	13	e.	H. E. Averill
Doniphan	Ripley	344	17	43.4	+ 7.2	70	18	21	1	36	7.34	+3.13	2.00	1.0	9	14	7	10	s.	W. W. Martin
Jackson	Cape Girardeau	428	31	41.1	+ 7.1	69	18	23	1†	35	5.85	+2.13	1.91	0	11	7	10	14	s.	John G. Putz
Marble Hill	Bollinger	470	27	42.4	+ 7.6	71	18	21	1	36	6.87	+3.34	3.32	0	6	10	9	12	w.	R. A. DeWitt
Parma	New Madrid	281	..	....	......	..	..	..	..	..	5.81	......	1.28	0	9	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	11	....	......	..	..	..	..	..	4.26	+1.21	0.85	0	9	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	329	17	43.1	+ 6.5	66	18	24	1†	28	7.55	+3.58	2.21	T.	9	17	5	9	ne.	Rev. John H. Gallaher.
Vanduser	Scott	304	..	....	......	..	..	..	..	..	7.82	+3.59	2.32	0	7	..	..	..	....	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	43.4	+ 8.5	65	18	28	1	26	7.01	+3.19	3.52	0	9	5	5	21	s.	U. S. Weather Bureau
Section means and	extremes	....	..	43.4	+ 7.5	72	8	21	1	42	6.65	+2.84	3.52	0.1	9	11	7	13	s	
Ozark Plateau.																				
Arcadia	Iron	926	43	39.2	+ 7.1	67	11	21	1†	40	3.07	−0.15	0.84	0	9	12	5	14	w.	Arcadia College
Birchtree	Shannon	1,000	28	42.1^a	+ 7.7	62	12	20	1	35	5.84	+2.78	1.80	0	9	19	2	10	s.	V. H. Kirkendall
Bolivar	Polk	1,071	32	42.0	+ 8.1	64	11	20	3	31	3.04	+1.15	1.24	0	6	19	3	9	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	38.7	+ 2.5	61	11	12	3	36	2.88	+0.64	1.69	0	4	19	1	11	sw.	H. E. Dean
Eldon	Miller	934	22	40.3^b	+ 8.9	65	8	20	1	39	2.50	+0.96	1.13	0	4	9^b	13^b	7^b	se.	E. H. Shepherd
Farmington	St. Francois	918	24	40.0	+ 7.2	64	18	22	1	30	3.43	+1.08	0.78	0	9	11	6	14	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	39.6	+ 6.7	63	18	19	1	35	3.18	+0.33	0.81	T.	9	12	9	10	se.	A. C. Leach
Goodland	Iron	1,000	28	39.4	+ 6.8	67	18	17	1	41	4.20	+1.33	1.15	0	6	12	9	10	n.	F. M. Adams
Greenville	Wayne	381	..	41.8	......	70	18	20	1	43	6.47	......	2.21	0	10	15	5	11	se.	J. J. Amen.
Hollister	Taney	735	18	46.5	+10.5	75	18	22	15	46	5.20	+2 59	2.50	0	6	12	8	11	sw.	W. P. Chapmann
Houston	Texas	1,280	29	41.8	+ 9.2	69	18	22	15†	43	4.55	+2.00	1.16	0	7	10	9	12	sw.	Walter T. Beard
Koshkonong	Oregon	958	20	45.3	+ 8.8	70	11	23	1	34	6.08	+2.54	2.00	0	9	13	7	11	sw.	R. M. Hitt
Lebanon	Laclede	1,265	34	40.6^b	+ 7 6	66	8†	22	1†	43	2.34	−0.11	1.04	0	7	11^b	9^b	9^b	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	43.4	+10.1	63	8†	20	3	33	3.19	+1.53	1.46	0	3	19	4	8	se.	C. S. Crow
Mountain Grove	Wright	1,463	25	40.1	+ 6.9	64	8†	22	7	38	3.36	+0.49	1.08	0	7	13	8	10	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	45.0	+ 9.9	66	8†	18	3	41	3.30	+0.80	1.23	0	6	19	4	8	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	42.0	+10.7	64	8	22	1	37	2.54	+0.09	0.57	0	7	13	10	8	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	15	45.6	+10.9	67	26	21	3	30	5.72	+3.48	2.68	0	8	15	6	10	sw.	Floyd E. Fawver
Seymour	Webster	1,612	16	41.8	+ 7.5	63	11	21	1	36	4.44	+1.74	1.60	0	9	16	5	10	se.	Ira H. Hailey
Springfield	Greene	1,350	42	42.7	+11.4	64	8	21	3	30	3.43	+0.77	1.57	0	6	14	4	13	se.	U. S. Weather Bureau
Section means and	extremes	....	..	41.9	+ 8.3	75	18	12	3	46	3.89	+1.26	2.68	0	7	14	6	11	sw.	
Southwest Plain.																				
Amoret	Bates	831	15	39.6	+ 9.1	65	8	13	3	37	1.25	−0.04	0.92	0	6	12	9	10	nw.	Darby Fruit Farm
Appleton City	St. Clair	853	29	41.4	+10 1	63	8†	19	3	34	1.49	−0.34	0.74	0	6	14	10	7	sw.	W. G. Bigelow
Clinton	Henry	765	34	39.6	+ 8.2	62	13†	23	6†	30	1.89	−0.09	1.02	0	4	12	8	11	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	46	37.8	+10.6	64	11	17	3	34	0.35	−1.25	0.28	0	4	6	1	24	nw.	John H. Patterson
Lamar	Barton	980	40	35.0	+ 2.6	57	10	17	3	31	1.88	+0.18	0.89	0	4	15	4	12	se.	Joe W. Springer
Lamonte ††	Pettis	867	35	38 8	+10.1	63	13†	20	6†	35	0.54	−1.24	0.31	0	7	6	18	7	se.	J. E. Wheeler
Marshall	Saline	779	32	37.4^a	+ 9.8	65	12	11	5	37	0.42	−1.40	0.24	T.	3	12	8	11	nw.	Dr. W. H. Black
Nevada	Vernon	862	30	41.6	+ 9.9	66	8	18	3	37	1.84	−0.13	0.86	0	4	13	6	12	s.	George A. Kaupp
Warsaw	Benton	687	26	42 2	+ 9.4	65	13†	21	1	35	2.60	+0.22	1.35	T.	4	11	10	10	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	39.3	+ 8.7	66	8†	11	5	37	1.46	−0.36	1.35	T.	4	12	7	12	nw.	
Northwest Plateau.																				
Avalon	Livingston	730	24	36.6	+ 8.0	63	13	15	6	33	0.74	−1.25	0.45	2.0	4	9	12	10	nw.	F. G. Ashbaugh
Bethany	Harrison	916	30	33.8	+ 9.1	57	17	3	6	36	0.53	−0.92	0.28	1.0	5	6	2	23	nw.	Owen Ross
Chillicothe	Livingston	779	13	33.9	+ 3.9	60	13	9	6	35	0.59	−1.49	0.31	3.0	2	16	6	9	w.	Wm. J. Olenhouse
Conception	Nodaway	980	37	34.0	+ 9.2	60	17	15	6	35	0.24	−0.81	0.13	0.5	3	12	7	12	se.	Fr. Adelhelm Hess
Edgerton	Platte	856	9	34.0^c	......	58	17	12	22	30	0.29	−1.19	0.10	1.5	4	19	3	9	w.	Fred L. Stiff
Grant City ††	Worth	1,134	30	34.9	+10.3	58	17	13	22	36	0.16	−0.86	0.12	T.	3	13	8	10	nw.	B. F. Locke
Kansas City	Jackson	963	32	39.0	+12.8	63	17	19	6	30	0.16	−0.97	0.14	T.	3	12	9	10	nw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	34	36 3	+ 9.8	64	14	15	23	38	0.80	−0.63	0.51	3.0	3	18	2	11	se.	Linn Terry
Lexington	Lafayette	688	39	38.5	+11.0	62	9†	16	6	37	0.48	−1.09	0.22	0.3	4	11	9	11	nw.	Edwin G. Loomis
Liberty	Clay	859	31	38.6	+ 9.8	62	8†	16	6	37	0.24	−1.15	0.13	0.6	4	12	13	6	nw	James H. Harris
Maryville	Nodaway	1,169	27	34.4	+12.2	58	17	11	5	31	0.23	−0.96	0.15	0.5	3	15	3	13	n.	J. R. Brink
Oregon	Holt	1.048	66	35.0	+11 2	61	17	16	5†	29	0.12	−1.36	0.04	T	4	11	7	13	nw	Tom Curry
St. Joseph	Buchanan	967	49	36.6	+ 9.8	62	17	18	5	30	0.26	−0.85	0.11	0.6	5	10	10	11	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	28	33.2	+11.2	59	17	11	3	33	0.15	−0 71	0.09	0.8	3	10	10	11	nw.	Albert Volker
Trenton	Grundy	822	26	34.9	+ 7.9	58	13	12	6	29	0.97	−0.59	0.41	3.0	6	11	9	11	se.	W. H. Estes
Section means and	extremes	.....	..	35.2	+ 9.7	64	14	3	6	38	0.41	−1.00	0.51	1.2	4	12	7	12	nw.	
State means and	extremes	.....	..	39.2	+ 8.5	75	18	3	6†	46	2.72	+1.81	3.52	0.6	6	12	7	12	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for January, 1923.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri									.02					.64										.01			.04			T.	.23	0.94
Brunswick‖	Grand						.08	.06																				.26					0.40
Clifton Hill	Chariton						T.	.24						.05													.20	.11					0.60
Columbia***	Missouri		T.			T.		T.	T					.36	.22						.03			T.			.02				T.	.77	1.40
Downing	Mississippi					.08	.21	.05						.10										T.				.52			.02		0.98
Fayette‖|	Missouri																							T.			.10	T.		T.	T.	T.	0.10
Fulton	do					T.		T.						.03	.72																	1.15	1.90
Gorin	Mississippi					.15								.04													.70						0.89
Hannibal***	do					.10		.05	.02					.10											T.		.41	.03			.02	.02	0.75
Hermann‖	Missouri									.04					.57							.08			.03			.18	.02			.10	1.02
Jefferson City‖	do														.67							.20						.03				.65	1.55
Kirksville	Mississippi					.43		T.																			.08	.65			.04		1.20
Louisiana	do						.03			.05				T.	.40						T.				.02			.20			.03	.04	0.77
Macon ‖	Chariton						.15		.18						.18										.12			.27				.07	0.97
Mexico ‖	Mississippi						.03	.02							.49									T.	.02			.14			T.	.02	0.72
Pacific‖	Meramec								.08	.02					.56						.02	.51			.15	.01		.34	.09			.30	2.08
Palmyra‖	Mississippi						.14								.41										T.			.57			.08	.04	1.24
St. Catharine	Grand		T.			.25	.06	.11	T.					T.										T.			.11	.26			T.	T.	0.79
St. Charles	Missouri						T.	T.	T.					T.	.45						.15			T.			.02	.20				1.07	1.89
St. Louis (1)***	Mississippi					T.		.11	.01						.48						.34			.04	T.		.13	.06			T.	.91	2.08
St. Louis (2)	do					T.		.05	.02						.48						.42			.02			.18	.07				.93	2.17
Shelbina	do					.08								.30														.15					0.53
Steffenville	do					.07	.07	.10						.30	T.												.35	.50			.50	.05	1.94
Union‖	Meramec							.07	.02						.50						.07	.48						.34	.06			.32	1.86
Unionville	Chariton		T.			T.	.20	.20						.10										T.			.15	.65			T.	T.	1.30
Valley Park‖|	Meramec								.05	.02					.45							.38			.07			.21	.06			.05	1.29
Warrenton ‖	Mississippi						T.	T.	.05	.03					.51							T.			.05			.09	.03		T.	.22	0.98
Keokuk, Ia.***	do		T.		T.	.48		.08						.02											T.		.40	.01			.11	.03	1.13
Southeast Lowlands																																	
Cape Girardeau|‖	Mississippi														.82						.40	2.50		.05	.15	.12		.40	.20		.50	.16	5.30
Caruthersville	do		T.					T.						T.	.55						1.25	2.30	T.	.55			.15	.55		.15	1.05	.75	7.30
Doniphan	Black													T.	.90						1.50	2.00		.55			.10	.85		.14	.47	.83	7.34
Jackson	Mississippi							.02							.57						1.91	.96		.30	.03		.21	.36		.01	.55	.93	5.85
Marble Hill	do														.65						3.32							.95		.10	.93	.92	6.87
New Madrid‖	do	.02													.30	.90					1.50	2.80	.14	.08	.16			.20	.42		.82	1.22	8.56
Parma	St. Francis														.90						.96	1.25		.34	.05			.55		.06	1.28	.42	5.81
Patton (near)	Mississippi														.60						.70	.60		.30	.05		.15	.48			.53	.85	4.26
Poplar Bluff	Black														1.02						1.45	2.21		.20			.80	.43		.05	.66	.73	7.55
Vanduser	Mississippi														.93						1.60	2.32		.38				.75			.93	.91	7.82
Cairo, Ill.***	do							T.	T.					T.	.52						3.36	.25		.27			.38	.47		01	.87	.88	7.01
Ozark Plateau.																																	
Arcadia ‖	St. Francis						T.		T						.76						.07	.84		.04	.14			.50	.23		.39	.10	3.07
Birchtree	Black														.62						1.61	.48		.37			.48	.30		.05	.13	1.80	5.84
Bolivar	Osage														.75						.79						.14	.05		.07	T.	1.24	3.04
Dean	Neosho														.40						.70									.09		1,69	2.88
Eldon	Missouri													.29	.70						.38			T.								1.13	2.50
Farmington	St. Francis														.78						.52	.18		.30			.41	.40		.04	.07	.73	3.43
Gano	Meramec							T.							.81						.60	06		.28			.30	.24		.07	.03	.79	3.18
Goodland	Black														.66							.75		.60				1.15			.27	.77	4.20
Greenville	St. Francis														.79						2.21	1.24		.42	.03		.13	.38		.03	.43	.81	6.47
Hollister	White													.75							1.00	.25						.50		.20		2.50	5.20
Houston	Gasconade														.87						1.13			.30			.42	.28		.39		1.16	4.55
Jerome ‖	do														.42						T.	.56		.04	.17			.42			.07	.43	2.11
Koshkonong	Black														.53						2.00	1.05		.42			.27	.50		.14	.33	.84	6.08
Lebanon ‖|	Osage														.40							1.04		.05			.10	.15			.10	.50	2.34
Lockwood	do														.68						1.46						T.	T.				1.05	3.19
Mountain Grove|‖	White														.90							1.08		.10	T.		T.	.26	.27		.18	.57	3.36
Neosho	Neosho														.60						1.21			T.			.05	.05		.16	T.	1.23	3.30
Rolla	Meramec													.51							.56			.18			.33	.10		T.	.29	.57	2.54
Seligman	Neosho														.62						.82	.86					.15	.33		.24	.02	2.68	5.72
Seymour	White														.75						1.60	.25		.12			.06	.12		.06	.08	1.40	4.44
Springfield***	do							T.							.76					T.	1.57			T.			.02	.07		07	T.	.94	3.43
Steelville|‖	Meramec														.58						.11	.58			.12			.61	.14			.18	2.32
Tuscumbia ‖|	Osage														.62							.37			.05			.13			.01	.38	1.56
Southwest Plain.																																	
Amoret	Osage													T.	.08						.17						.03			.02	.03	.92	1.25
Appleton City	do							T						T.	.47						.22						.04	.01		T.	.01	.74	1.49
Clinton	do														.60						.17									.10		1.02	1.89
Harrisonville‖	do														.02							.02						.03				.28	0.35
Lamar ‖	Neosho														.40						.04	.89										.55	1.88
Lamonte	Missouri													.02	.31						.04						.05	.03			.03	.06	0.54
Marshall	do				T.		T.							.03													.15					.24	0.42
Nevada	Osage														.65						.28						.05					.86	1.84
Osceola|‖	do															.44						.37										.67	1.48
Warsaw	do							T.						T.	.85						.30	.10		T.			T.				T.	1.35	2.60
Waverly |‖	Missouri						.04	.03		T.															T.			.22			T.	T.	0.29
Northwest Plateau.																																	
Avalon	Grand												.14											.05				.45				.10	0.74
Bethany	do		.10			T.		.10	T.					T.										.03		T.	.28	.02			T.	T.	0.53
Chillicothe ‖|	do			T.			.28	T.							T.						T.			T.				.31					0.59
Conception	Missouri		.05					.13	T.																		.06				T.	T.	0.24
Edgerton	do					.12		.05	T.					T.													.10	T.				.02	0.29
Grant City	Grand		.02						T.																		T.	.12				.02	0 16
Kansas City***	Missouri					T.	T.	T.	T.												T.			T.			.14				.01	.01	0.16
Kidder ‖	Grand		.03	.26																								.51		T.			0.80
Lexington	Missouri						.03	.22																				.22			.01		0.48
Liberty	do					.03																					.13	.05			.03		0.24
Maryville	do		.05																								T	.15				.03	0.23
Oregon	do		.02			T.	.04																				.03					.03	0.12
St. Joseph***	do		.01			.06	.06		T.																		.11				T.	.02	0.26
Tarkio	do		.03					.03																			09						0.15
Trenton	Grand		.03			.27	.09		T.															T.	.06		.11	.41			T.	T.	0.97

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖: Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. | Separate dates of fall not recorded.

Daily Temperatures for January, 1923.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	45	33	35	49	31	32	46	60	42	45	59	58	61	47	51	47	62	55	56	50	43	38	33	45	54	40	36	46	49	51	44	46.5
	Minimum	23	23	24	25	20	12	13	25	33	28	29	27	26	31	26	24	27	33	26	27	21	18	19	20	20	23	34	23	25	31	37	24.9
Columbia	Maximum	44	44	37	48	34	31	50	58	42	47	59	56	59	58	48	44	60	59	54	47	43	34	31	46	56	49	50	45	45	52	52	47.8
	Minimum	25	26	25	27	24	20	29	26	32	33	37	27	37	33	31	30	30	36	31	33	27	23	24	25	26	37	30	29	32	39	46	30.0
Fayette	Maximum	..	..	..	47	27	25	45	53	38	42	47	55	55	43	45	46	51	55	49	43	39	33	24	43	50	40	36	42	42	45	40	[c]42.9
	Minimum	..	..	..	20	17	13	22	21	29	28	26	25	28	29	25	25	25	25	20	25	18	15	17	18	35	31	26	22	25	25	37	[c]24.0
Hannibal	Maximum	40	40	32	44	30	29	43	54	40	41	57	44	54	54	46	40	51	58	52	50	38	35	33	44	48	45	40	43	42	46	47	43.9
	Minimum	25	28	24	26	24	16	29	30	34	30	35	28	30	34	32	30	27	32	27	32	25	21	23	27	26	36	33	29	29	38	41	29.1
Jefferson City §§	Maximum	46	36	38	49	37	40	52	62	41	52	60	55	60	45	46	45	60	58	52	48	40	33	41	45	56	52	40	43	46	55	55	48.0
	Minimum	23	27	26	26	24	22	23	27	30	33	36	32	33	35	30	34	29	35	29	31	27	24	25	25	26	30	37	29	30	35	39	29.4
Kirksville	Maximum	38	35	32	39	34	24	38	49	45	39	54	46	43	56	43	42	52	50	52	41	40	35	32	45	48	48	34	43	41	44	49	42.3
	Minimum	21	26	16	24	15	5	22	20	30	23	24	24	26	31	28	25	23	43	26	22	18	14	17	22	20	31	32	21	28	36	36	24.2
Louisiana	Maximum	38	40	35	45	45	35	43	44	52	42	55	58	54	54	45	48	40	55	54	52	50	36	35	40	45	48	44	46	40	43	48	45.5
	Minimum	23	34	23	28	22	15	25	28	35	28	35	32	28	35	32	34	25	38	22	37	25	20	26	30	25	35	40	30	25	38	43	29.5
Macon §§	Maximum	41	35	27	44	28	36	41	54	39	46	55	49	51	59	46	42	55	51	39	48	40	37	34	44	60	38	36	42	45	46	43	43.6
	Minimum	21	27	18	20	17	10	10	24	31	25	25	25	25	28	27	27	24	28	21	23	19	15	15	18	21	23	33	22	26	31	36	23.1
Mexico §§	Maximum	40	35	39	48	31	34	50	54	43	49	59	51	50	44	41	44	56	55	52	49	41	35	32	46	54	48	38	43	42	50	51	45.3
	Minimum	23	24	22	22	21	16	19	26	31	29	33	21	33	33	30	30	27	29	25	33	22	19	20	23	24	26	35	27	27	31	37	26.4
St. Catharine	Maximum	40	37	35	46	35	24	41	50	47	42	58	48	51	51	50	43	56	55	53	47	42	38	36	42	50	46	36	43	46	46	46	44.5
	Minimum	22	29	21	23	17	10	21	19	32	28	32	25	29	30	27	28	26	47	46	38	20	16	19	23	23	33	32	22	29	40	36	27.2
St. Louis (1)	Maximum	40	44	34	51	38	32	45	57	43	48	61	49	52	55	48	45	51	62	49	50	39	34	33	43	46	52	51	44	41	47	56	46.3
	Minimum	27	32	28	30	28	24	30	32	35	33	36	34	35	38	34	31	28	38	34	39	30	26	27	30	28	43	†36	32	33	38	45	32.7
Unionville	Maximum	40	36	34	38	30	26	35	51	47	44	52	50	44	54	57	42	56	54	53	46	40	38	35	38	46	44	35	44	46	45	44	43.4
	Minimum	18	24	14	24	12	5	20	25	26	20	30	18	20	28	29	20	21	40	18	30	15	3	12	20	18	30	30	20	26	32	30	21.9
Warrenton §§	Maximum	43	41	39	48	34	32	48	59	41	48	59	53	54	44	45	43	56	58	51	48	40	32	30	44	51	51	40	47	41	48	54	45.9
	Minimum	23	24	26	26	23	21	22	28	30	29	30	30	30	36	30	33	26	27	27	28	26	22	21	26	26	25	39	30	28	31	38	27.8
Southeast Lowlands.																																	
Caruthersville	Maximum	54	56	45	55	62	58	62	72	62	62	71	60	63	62	58	60	60	68	60	62	60	40	42	46	54	52	58	56	46	52	68	57.6
	Minimum	29	28	32	30	32	38	32	30	40	32	38	40	43	47	30	33	32	48	35	37	40	32	32	33	29	40	48	39	38	40	50	36.4
Doniphan	Maximum	45	51	44	59	56	54	60	59	55	58	68	59	51	59	55	56	54	70	64	57	57	42	36	45	50	55	56	55	45	52	63	54.5
	Minimum	21	34	30	30	25	30	28	25	38	28	32	30	26	38	25	28	26	47	27	40	39	29	28	30	25	42	48	33	35	39	48	32.4
Jackson	Maximum	44	52	40	58	54	54	54	53	51	52	66	55	50	57	51	48	46	69	54	52	57	38	35	37	47	51	55	54	42	48	56	51.0
	Minimum	23	36	32	28	26	23	23	26	35	28	31	30	26	42	26	27	25	44	25	36	35	25	28	30	24	39	47	33	30	38	45	31.2
Poplar Bluff	Maximum	43	43	40	52	57	56	55	55	55	52	57	57	54	49	49	50	52	66	59	59	59	40	37	43	48	51	56	55	45	52	63	51.9
	Minimum	24	24	31	31	29	32	29	28	38	31	36	39	31	43	29	31	28	50	32	42	39	30	29	31	27	42	49	34	31	40	49	34.3
Cairo, Ill.	Maximum	43	52	37	56	57	47	54	53	49	51	63	54	56	59	52	50	50	65	53	60	52	38	34	36	46	55	56	45	44	51	63	51.0
	Minimum	28	37	31	30	32	31	31	31	37	34	39	40	37	40	32	35	30	46	34	47	35	30	30	32	30	42	45	36	35	41	49	35.7
Ozark Plateau.																																	
Arcadia §§	Maximum	43	46	44	58	51	37	57	55	47	54	67	60	59	50	52	54	52	66	51	50	41	45	31	47	50	52	55	48	42	50	58	50.7
	Minimum	21	21	26	26	24	25	26	24	28	29	29	31	25	38	29	33	23	26	23	23	34	25	25	26	24	26	44	29	28	28	38	27.6
Birchtree	Maximum	45	45	45	55	55	53	58	56	55	54	..	62	55	59	52	55	50	58	55	51	52	40	32	48	52	51	55	53	40	49	60	[a]51.7
	Minimum	20	35	27	30	29	24	23	26	35	29	..	32	36	40	28	30	29	40	31	40	36	28	27	29	29	44	49	30	33	39	47	[a]32.5
Eldon	Maximum	46	44	43	53	40	32	53	65	48	55	64	59	61	59	..	50	50	58	60	51	44	36	30	50	59	..	55	48	47	54	53	[b]50.6
	Minimum	20	29	21	31	24	22	28	26	31	32	35	40	32	34	..	29	32	28	42	41	26	25	23	25	25	..	33	25	29	36	46	[b]30.0
Farmington	Maximum	44	40	38	54	40	38	51	51	51	48	63	58	51	47	48	45	47	64	55	50	48	34	31	41	52	53	54	48	42	50	57	48.2
	Minimum	22	34	26	28	29	26	27	26	34	28	33	33	33	40	31	37	25	45	27	38	32	25	28	28	27	40	42	30	28	37	45	31.7
Hollister	Maximum	55	50	52	51	60	62	60	62	70	62	68	70	66	65	68	66	65	75	70	68	68	50	58	54	70	65	60	50	54	56	60	61.6
	Minimum	34	30	32	28	32	26	30	32	36	26	28	26	36	40	22	24	28	30	25	30	40	30	28	26	40	30	45	28	30	32	50	31.4
Koshkonong	Maximum	48	46	47	59	61	55	60	64	58	61	70	63	52	61	55	60	59	70	55	57	57	41	35	50	53	55	57	57	42	53	63	55.6
	Minimum	23	36	28	31	31	29	29	30	36	32	39	37	37	42	32	35	33	49	34	43	38	29	28	29	29	42	49	31	35	40	49	35.0
Lebanon §§	Maximum	40	43	45	55	55	..	57	66	41	63	66	60	58	46	51	49	60	60	51	50	52	36	31	..	60	58	49	48	45	56	59	[b]52.1
	Minimum	22	22	23	23	26	23	..	23	33	33	34	30	30	33	27	28	31	33	33	36	28	30	24	24	..	25	36	28	28	34	40	[b]29.0
Mountain Grove §§	Maximum	45	36	46	54	56	37	54	64	45	57	64	61	56	45	49	54	56	64	50	51	46	36	30	48	51	53	58	48	41	53	57	50.5
	Minimum	23	24	25	24	31	25	22	26	33	32	34	30	32	39	27	31	30	21	33	34	34	25	25	26	27	30	45	26	27	30	40	29.7
Neosho	Maximum	53	50	51	56	57	47	63	66	64	62	66	65	64	64	52	60	65	64	60	59	54	45	37	51	64	61	59	49	48	57	60	57.2
	Minimum	24	32	18	28	26	25	30	29	33	28	42	24	29	39	24	29	33	53	25	50	37	31	29	26	27	52	38	22	34	45	51	32.7
Rolla	Maximum	45	42	44	53	51	50	54	64	58	55	62	59	55	55	48	50	57	62	53	50	50	36	32	46	55	51	53	48	43	55	57	51.4
	Minimum	22	33	26	32	27	25	30	27	33	33	40	32	37	36	28	32	29	52	30	45	29	25	26	27	29	44	36	29	30	40	50	32.7
Springfield	Maximum	45	43	45	52	55	38	55	64	45	56	62	58	60	58	47	54	62	61	52	52	46	34	32	45	59	55	53	46	43	51	58	51.2
	Minimum	26	27	21	36	25	24	34	34	32	35	44	36	42	34	32	37	34	44	37	44	33	27	26	28	33	48	32	26	37	41	50	34.2
Southwest Plain.																																	
Amoret	Maximum	52	44	44	52	42	35	56	65	52	56	62	62	63	60	52	53	62	55	55	50	42	37	36	46	62	55	42	48	51	50	50	51.3
	Minimum	23	28	13	29	22	20	28	28	28	29	36	27	30	32	24	30	33	44	28	36	24	20	20	22	25	35	28	18	29	42	33	27.9
Appleton City	Maximum	50	43	42	54	46	36	56	63	56	55	63	60	62	61	51	50	62	59	54	49	46	40	33	49	61	57	41	48	48	51	50	51.5
	Minimum	26	30	19	32	26	23	31	29	31	31	40	27	35	37	26	33	34	50	31	41	28	25	22	25	30	40	34	23	33	43	37	31.4
Clinton	Maximum	43	43	39	41	45	32	39	59	59	45	46	54	62	62	45	45	50	60	50	48	46	39	33	37	56	56	36	44	48	50	50	47.2
	Minimum	26	30	24	31	26	23	30	29	32	33	40	30	32	34	30	32	34	50	32	40	29	25	23	26	37	40	35	25	32	43	38	32.0
Harrisonville §§	Maximum	47	36	39	52	34	35	50	62	48	56	64	60	61	50	58	51	62	59	54	50	49	38	33	49	61	39	35	48	49	50	40	49.0
	Minimum	21	27	17	18	22	18	22	28	22	29	32	29	29	31	27	28	30	39	32	35	22	20	19	19	23	30	32	20	31	34	34	26.5
Lamar §§	Maximum	49	32	35	35	34	43	43	41	33	57	47	49	49	39	29	41	55	55	50	50	32	29	30	36	52	37	42	44	47	53	42	42.3
	Minimum	24	28	17	18	26	22	24	27	30	26	29	24	33	34	24	25	26	38	26	31	28	25	24	24	26	33	34	20	34	35	43	27.7
Lamonte	Maximum	45	41	40	52	36	32	53	60	46	53	60	60	63	60	49	49	63	58	55	49	46	37	29	48	60	48	43	42	50	51	47	49.2
	Minimum	23	27	22	30	22	20	29	25	30	31	36	26	35	32	27	30	30	38	29	38	22	20	20	20	25	36	30	30	20	42	36	28.4
Marshall	Maximum	42	37	37	39	30	52	58	58	50	48	58	65	62	60	48	32	62	60	53	50	45	48	32	46	58	57	40	43	48	52	43	48.8
	Minimum	21	28	24	21	11	24	..	25	30	29	34	28	29	30	26	24	25	48	24	35	22	19	20	19	23	25	32	22	25	40	21	[a]26.1
Nevada	Maximum	54	44	45	54	48	37	58	66	56	57	64	61	63	60	49	54	58	63	55	52	45	41	33	48	62	59	54	47	51	54	50	53.0
	Minimum	26	21	18	30	25	22	28	37	31	28	30	27	26	33	28	28	35	45	29	40	29	25	22	25	30	44	34	23	35	45	40	30.3
Warsaw	Maximum	50	46	51	55	48	35	55	64	60	55	62	60	65	64	49	51	65	62	54	56	50	42	33	48	60	57	58	48	48	53	51	53.4
	Minimum	21	33	21	27	26	24	29	23	32	35	41	25	35	35	29	31	32	49	24	45	27	25	25	23	25	43	35	25	27	43	43	31.0
Northwest Plateau.																																	
Chillicothe §§	Maximum	41	34	34	44	24	36	41	55	41	45	56	55	60	45	48	43	59	53	55	42	42	37	35	42	53	37	34	45	46	48	40	44.2
	Minimum	23	25	21	22	16	9	10	24	30	29	30	26	25	29	27	30	27	32	24	24	17	12	15	19	21	23	32	22	26	31	32	23.6
Grant City	Maximum	42	40	35	39	33	32	44	48	57	55	58	48	40	55	53	53	58	57	55	54	49	44	47	39	48	49	34	46	48	49	47	47.0
	Minimum	22	23	17	16	15	15	19	30	22	25	23	30	27	21	18	17	25	44	22	21	17	13	18	20	19	29	27	16	29	39	27	22.8
Kansas City	Maximum	46	41	40	49	27	34	49	61	45	53	59	59	62	47	51	46	63	60	55	48	46	34	36	44	59	42	36	47	50	53	38	47.7
	Minimum	28	25	21	24	20	19	31	33	31	35	44	37	39	32	30	36	36	42	39	30	25	22	19	25	29	34	29	25	34	34	29	30.3
Kidder §§	Maximum	40	48	48	42	43	35	46	59	29	44	56	54	64	48	51	49	48	52	63	41	42	43	48	53	53	35	33	58	45	58	50	47.7
	Minimum	24	22	23	30	16	18	20	25	28	17	28	26	26	28	29	28	27	26	34	32	20	18	15	20	28	20	31	20	24	35	35	24.9
Lexington §§	Maximum	43	44	40	39	51	34	21	52	62	49	51	62	60	62	62	51	53	62	56	54	50	46	39	34	45	57	56	39	46	50	50	49.4
	Minimum	24	29	21	30	20	16	26	25	29	31	34	29	28	31	26	32	30	38	30	37	21	19	19	21	24	31	32	21	28	36	36	27.6
Maryville	Maximum	40	38	33	37	28	27	37	55	41	45	53	53	52	48	50	42	58	53	55	47	55	39	43	38	49	41	32	46	47	46	34	43.9
	Minimum	24	20	16	23	11	17	24	25	25	29	35	30	29	31	25	25	27	38	27	25	25	17	20	20	23	29	28	15	30	32	25	24.8
Oregon	Maximum	40	37	35	40	27	28	41	55	44	46	55	53	57	50	48	42	61	56	53	45	42	35	40	36	52	40	35	43	50	48	32	44.1
	Minimum	25	22	18	26	16	16	27	27	26	29	28	28	32	31	25	30	32	41	32	29	21	17	19	21	25	30	28	17	32	28	25	25.9
St. Joseph	Maximum	45	34	37	43	25	30	44	58	42	48	57	56	60	46	50	45	62	58	55	46	44	37	40	40	55	37	33	47	50	49	35	45.4
	Minimum	26	21	19	23	18	18	30	31	29	32	37	31	33	33	28	32	32	36	36	32	22	20	21	23	26	32	28	21	34	28	26	27.7
Trenton	Maximum	37	37	33	40	30	27	40	51	41	41	53	46	58	47	46	41	47	43	57	47	40	36	34	38	49	43	35	40	45	48	46	42.5
	Minimum	26	25	21	26	19	12	21	26	30	31	34	27	30	32	30	29	30	36	28	36	22	19	21	24	23	32	31	22	30	40	32	27.3

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. † Interpolated.

551.05
UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

AUG 4 1924

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVII. COLUMBIA, MO., FEBRUARY, 1923. No. 2.

GENERAL SUMMARY.

February, 1923, in Missouri, was open and mild, the same as the preceding days of January. Beginning with the 3rd, or 4th and continuing up to or near the 20th unusually well formed high pressure waves dominated the weather most of the time, and as a result there were some cold days, about 12 or 13 averaging below normal, and about eight being typical winter days. The last week was spring like. Except in parts of the southeastern section precipitation was scanty; and, it might be pointed out, this month makes the eighth consecutive dry February, and, also, the first since 1917 with below normal temperature.

Save a few disagreeable days, the month was favorable for outdoor occupations, particularly from about the 14th to the 23rd, when house building, road construction, and plowing were continuous. The cold snap brought about livelier trade in clothing and food lines, but on the other hand the number of influenza cases increased markedly.

Winter wheat in a few localities, on thin soil, was off-color after the coldest snap, but the condition and progress of the crop in general was satisfactory. Live stock was out on hay stacks and stalk fields most of the time.

TEMPERATURE.

The monthly mean temperature, 69 stations reporting, was 30.2°. The mean departure from the normal for 67 stations having 10 or more years' record was minus 1.2°. This February is the first since 1917 with temperature nearly normal or below. The weather of the month was variable, mild and cold spells of a few days duration following each other quickly. In a general way the coldest days were 3rd, 4th, 9th, 10th, 11th, and 14th to 18th. Zero or near zero conditions prevailed on the 3rd, and 4th. The last week was spring-like in most of the State. There were 24 nights with temperature of 32° or lower; and on 8 days it did not exceed 32°. Zero to 9° below on two nights at stations in northern counties.

PRECIPITATION.

The monthly precipitation, based upon records of 86 stations, was 1.37 inches. The mean departure from the normal for 78 stations having 10 or more years' record was minus 0.88 inch. It is the 8th consecutive February with less than normal precipitation. Precipitation was frequent but light during the first 12 or 13 days, and from the 24th to the 28th. The greatest amounts, varying between 2 and 4 inches, fell in the southeastern lowlands and along the eastern Ozark slope, 50 per cent or more of the monthly totals falling on the 1st. and 2nd. No appreciable precipitation fell anywhere during the period from the 14th to the 23rd.

Snow mixed with sleet fell on the 12th generally. It remained on the ground one or two days. The total monthly snowfall ranged from 3 to 5 inches locally, but for the State as a whole it was 1.4 inches. The last four Februarys had light snows.

WIND.

The prevailing winds were from the northwest. The average wind movement, based upon the records of 8 stations equipped with anemometers, was 6,875 miles, 10.2 miles an hour. Brisk to strong winds of 35 to 50 miles an hour occurred generally on the 13th. No damage was reported.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, based upon the records of 6 well placed stations equipped with sunshine recorders, was 167. This is about 56 per cent of the possible and about 3 per cent more than normal. There was about 7 per cent less sunshine than during the same month last year.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---10th, 11th, 12th, 13th, 24th, 26th, and 28th.
Halos, solar.---4th, 9th, 10th, 18th, 19th, 20th, and 21st.
Halos, lunar.---On the 27th.
Sleet.---1st, 2nd, 5th, 10th, 11th, 12th, and 24th.
Thunder heard on the 2nd, and 12th.

OBSERVERS' REMARKS.

Downing.---Very pleasant February. The cold weather of the first half of the month made ice thick enough to harvest. Rain is needed to fill cisterns.

St. Catharine.---A pleasant month; fine for outdoor work. Live stock did well on stalk fields. High winds on 17th.

Warrenton.---Barometer registered 30 inches on 15th, highest reading in years. Fine weather prevailed.

Farmington.---A cold month, but not unpleasant winter weather.

Gano.---The coldest month of the winter. Wheat does not look good. Peach buds safe yet.

Lebanon.---Snow on ground from 6th to 11th. Pleasant winter month.

Lockwood.---Fine open month, with ample moisture. Some oats sown. Wheat looks fine. Live stock in good condition.

Rolla.---Fine weather; unusually dry for February.

Appleton City.---First snow of winter on 3rd. Considerable plowing done. Roads dusty part of time. Wheat needs moisture.

Harrisonville.---First snow of the season fell on the 11th.

Lamonte.---Unusually open February in this locality. Wheat looks good.

Nevada.---Light snow on the 6th, the first of the winter. Fine weather prevailed.

Warsaw.---Dry but fine month. Only two snows of 2 inches each during this winter.

Avalon.---Very dry month. Fine on live stock. Ground in fine condition for spring plowing.

Bethany.---The cold of the 3rd and 4th did very little damage. Unusually fine weather has prevailed. Roads in good shape.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Max. velocity. Direction.	Max. velocity. Date.
Columbia	30.26	78	67	160	53	5,955	8.7	36	nw.	13
Hannibal	30.25	80	..	...	..	6,372	9.5	32	sw.	13
Kansas City	30.27	70	48	201	67	8,019	11.9	48	nw.	13
St. Joseph	30.25	74	51	193	64	6,155	9.2	42	nw.	13
St. Louis	30.26	76	63	143	48	8,368	12.5	44	w.	13
Springfield	30.26	80	70	138	46	6,904	10.4	35	nw.	13
Cairo, Ill	30.26	74	64	...	..	7,238	10.8	39	nw.	17
Keokuk, Iowa	30.28	72	61	170	57	5,987	8.9	42	w.	13

COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	33.0	+2.0	73	−11	2.04	−0.28	......	.....	7	....	....	....
1889	29.3	−1.7	73	− 9	2.57	+0.25	...	.....	7	....	....	....
1890	35.5	+4.5	81	− 7	2.24	−0.08	......	.....	7	....	....	....
1891	32.7	+1.7	76	− 8	2.28	−0.04	......	2.4	6	....	....	....
1892	37.7	+6.7	71	2	4.15	+1.83	......	.....	9	7	6	16
1893	27.9	−3.1	65	−20	1.98	−0.34	2.30	4.6	6	10	7	11
1894	30.8	−0.2	72	−12	2.52	+0.20	2.60	11.2	6	10	8	10
1895	23.6	−7.4	77	−26	0.55	−1.77	1.10	3.3	5	10	10	8
1896	35.6	+4.6	81	−10	1.61	−0.71	2.20	4.1	5	12	8	9
1897	34.8	+3.8	74	−15	2.30	−0.02	3.60	8.2	7	7	7	14
1898	35.4	+4.4	78	− 9	1.62	−0.70	2.90	0.8	5	13	6	9
1899	20.4	−10.6	72	−32	2.17	−0.15	4.30	5.3	6	12	8	8
1900	26.2	−4.8	70	−16	3.92	+1.60	2.85	16.6	10	10	6	12
1901	28.1	−2.9	76	−19	1.63	−0.69	2.36	7.6	6	13	7	8
1902	24.0	−7.0	72	−17	1.50	−0.82	2.35	5.8	5	11	8	9
1903	29.8	−1.2	74	−25	2.92	+0.60	2.65	5.3	7	11	6	11
1904	30.0	−1.0	82	−18	0.91	−1.41	1.46	1.5	5	11	8	10
1905	21.5	−9.5	69	−40	1.64	−0.68	1.20	13.2	8	11	6	11
1906	33.7	+2.7	73	−13	2.28	−0.04	2.40	4.1	7	15	6	7
1907	34.8	+3.8	77	−15	1.65	−0.67	3.72	4.5	6	12	5	11
1908	35.6	+4.6	78	− 7	4.32	+2.00	4.28	4.1	9	13	6	10
1909	38.8	+7.8	71	− 4	3.38	+1.06	2.50	3.1	9	13	5	10
1910	28.3	−2.7	72	−24	1.98	−0.34	3.00	7.7	6	12	6	10
1911	38.1	+7.1	87	0	3.64	+1.32	2.08	6.3	8	12	5	11
1912	28.3	−2.7	72	−12	2.45	+0.13	3.20	11.9	6	10	7	12
1913	29.8	−1.7	78	− 9	2.21	−0.18	4.78	8.5	7	12	5	11
1914	28.3	−3.2	75	−11	2.71	+0.42	2.80	14.0	7	12	6	10
1915	39.4	+8.0	72	7	3.18	+0.81	2.05	4.1	8	9	5	14
1916	31.4	+0.2	78	−12	0.98	−1.48	2.70	5.0	5	13	6	10
1917	30.5	−1.0	83	−22	0.41	−2.03	1.24	1.4	2	14	7	7
1918	34.9	+4.6	83	−25	1.11	−1.26	2.00	0.6	4	15	6	7
1919	35.3	+4.0	71	−10	1.98	−0.35	2.20	6.4	7	13	4	11
1920	34.5	+3.2	78	− 5	0.57	−1.68	1.41	1.2	4	11	6	12
1921	40.1	+9.1	86	5	0.94	−1.33	2.00	1.8	4	14	6	8
1922	35.4	+4.1	80	− 5	1.79	−0.44	1.65	1.9	5	14	6	8
1923	30.2	−1.2	75	− 9	1.37	−0.88	2.20	1.4	5	13	5	10
....	......	......	....	....	......	......	......	.....	....	....	....	....
....	......	......	....	....	......	......	......	.....	....	....	....	....

Climatological Data for February, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip. .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	26.8	− 1.7	51	25	− 2	4	52	0.40	−1.61	0.15	1.0	7	13	1	14	nw.	O. K. Benecke
Clifton Hill	Randolph	731	22	26.8	− 0.5	55	21	− 4	4	33	0.59	−1.37	0.20	1.2	7	11	6	11	......	Dr. A. J. Bradsher
Columbia	Boone	748	31	28.9	− 1.5	52	25	1	4	27	1.00	−1.13	0.61	1.3	9	9	7	12	nw.	U. S. Weather Bureau
Downing	Schuyler	878	11	26.2	......	53	24	− 9	3	39	0.39	−1.06	0 29	0.5	3	6	10	12	n.	E. E. St. Clair
Fayette	Howard	661	38	23.0	− 7.0	51	21	− 5	3†	32	0.14	−1.94	0.14	0	1	..	..	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	29	30.2	− 2.0	53	1†	0	4	42	1.07	−1.03	0.60	2.0	7	11	8	9	nw.	Westminster College
Gorin	Scotland	700	34	....	......	..	..	....	..	..	0.27	−1.35	0.22	4.0	2	11	9	8	nw.	I. S. McCollom
Hannibal	Marion	534	37	27.0	− 2.7	49	21	− 2	3	28	0.53	−1.07	0.30	0.7	6	9	8	11	nw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	29.0	− 1.9	50	19†	2	4	40	1.59	−0.50	0.62	4.0	7	14	5	9	n.	Miss Emma Swift
Kirksville	Adair	969	39	25.4^{a}	+ 0.5	52	24	− 5	3	37	0.18	−1.75	0.10	0.5	2	16^{a}	4^{a}	7^{a}	nw.	Prof. J. S. Stokes
Louisiana	Pike	469	40	30.2	+ 1.8	50	1†	− 2	4	35	0.93	−1.54	0.56	2.0	9	15	4	9	n.	J. T. Farrell
Macon	Macon	875	28	25.0	− 3.1	51	21	− 6	3†	43	0.17	−2.01	0.06	0.6	3	10	8	10	ne.	W. C. Brown
Mexico	Audrain	800	43	27.0	− 1.7	53	22†	− 3	4	32	1.28	−1.17	0.56	1.0	8	14	1	13	w.	Mrs. Abbie Snoddy
Palmyra	Marion	652	22	25.3	− 1.5	50	21	− 4	3†	42	0.53	−1.76	0.31	1.5	5	14	0	14	nw.	W. B. Markell
St. Catharine	Linn	800	12	27.5	− 1.5	51	21	− 2	4	32	0.21	−1.03	0.07	1.5	4	12	7	9	n.	L. D. Baker
St. Charles	St. Charles	456	43	30.2	− 1.5	54	1	0	4	33	2.07	−0.83	0.97	7.0	6	9	5	14	n.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	30.4	− 4.1	54	13	1	4	28	1.50	−1.25	0.79	5.1	10	8	7	13	nw.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	29.5	− 2.7	54	1	1	4	26	1.77	−0.54	0.77	4.2	10	7	7	14	n.	St. Louis University
Shelbina	Shelby	779	28	....	......	..	..	....	..	..	....	......	....	...	..	..	..	..	.....	S. G. Parsons
Steffenville	Lewis	650	28	27.4	+ 0.1	50	25	− 5	3†	37	0.12	−1.93	0.07	1.0	2	14	7	7	nw.	Frank Hall
Unionville	Putnam	1,062	28	25.8	+ 1.5	53	24	− 8	4	37	0.45	−1.55	0.40	0.5	2	16	3	9	n.	Geo. W. Davis
Warrenton	Warren	816	31	27.2	− 2.2	52	25	− 1	4	41	2.09	−0.42	0.91	3.0	11	18	2	8	nw.	Prof. A. W. Ebeling
Keokuk, Iowa.	Lee, Ia.	574	49	25.1	− 3.2	52	25	− 6	3	30	0.35	−1.27	0.19	0.8	4	9	7	12	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	27.3	− 1.7	55	21	− 9	3	52	0.84	−1.34	0.97	2.0	6	12	5	11	nw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	40.7	+ 1.8	75	13	12	4	38	3.70	−0.10	0.95	1.0	8	14	3	11	e.	H. E. Averill
Doniphan	Ripley	344	17	36.0	− 2.1	64	1	9	4	36	2.60	−0.55	0.75	T.	6	14	3	11	nw.	W.W. Martin
Jackson	Cape Girardeau	428	31	33.9	− 1.6	64	13	6	4	36	3.66	+0.77	1.60	0.5	7	7	7	14	n.	John G. Putz
Marble Hill	Bollinger	470	27	34.8	− 0.5	65	13	7	3	35	4.56	+1.28	1.70	T.	4	11	5	12	n.	R.A. DeWitt
Parma	New Madrid	281	..	....	......	..	..	....	..	..	3.69	......	1.32	0	5	..	..	..	......	J.E. Pearce
Patton (near)	Bollinger	500	11	....	......	..	..	....	..	..	4.80	+2.86	1.90	0	4	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	329	17	36.2	− 0.1	65	13	10	4	29	2.89	−0.07	1.10	T.	7	16	1	11	nw.	Rev. John H. Gallaher.
Vanduser	Scott	304	..	....	......	..	..	....	..	..	2.91	−0.35	0.97	0	4	..	..	..	.....	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	34.8	− 3 7	65	13	9	4	32	2.57	−0.76	0.74	1.2	9	8	5	15	n.	U. S. Weather Bureau
Section means and	extremes	....	..	36.1	− 1.0	75	13	6	4	38	3.49	+0.38	1.90	0.3	5	12	4	12	n.	
Ozark Plateau.																				
Arcadia	Iron	926	43	31.0	− 2.5	59	13	2	4†	44	3.15	−0.01	1.30	1.4	11	13	3	12	w.	Arcadia College
Birchtree	Shannon	1,000	28	33.6^{a}	− 1.3	60	1	5	4	36	4.05	+1.56	2.20	T.	5	17	0	11	nw	V. H. Kirkendall
Bolivar	Polk	1,071	32	33.0	− 1.4	56	12	4	4	40	0.93	−1.36	0 42	3.5	4	17	7	4	n.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	31.0	− 3.8	58	12	4	4†	34	2.12	+0.29	0.92	T.	6	17	4	7	w.	H. E. Dean
Eldon	Miller	934	22	31.4^{a}	− 0.5	55	10	0	4	36	0.65	−1.45	0.41	5.0	4	5^{a}	14^{a}	8^{a}	nw.	E. H. Shepherd
Farmington	St. Francois	918	24	32.2	− 3.4	55	13	2	4	38	3.60	+0.31	1.16	2.2	8	11	6	11	ne.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	30.3	− 4.2	55	1	− 2	4	37	2.39	+0.01	0.64	5.0	9	12	5	11	nw.	A. C. Leach
Goodland	Iron	1,000	28	32.2	− 0.7	56	8	2	4	43	1.99	−0.50	0.70	3.0	5	13	5	10	n.	F. M Adams
Greenville.	Wayne	381	..	35.3	......	64	13	8	4†	37	3.14	......	1.00	T.	7	14	3	11	n.	J. J. Amen.
Hollister	Taney	735	18	38.5	+ 0.5	62	20	8	4†	40	3.04	+0.96	1.60	2.0	3	16	6	6	sw.	W. P. Chapmann
Houston	Texas	1,280	29	32.8	− 1.4	60	1	3	4	41	2.17	−0.05	0.58	1.0	6	13	6	9	ne.	Walter T. Beard
Koshkonong	Oregon	958	20	36.4	− 1.1	62	1	8	4	40	2.75	—0.04	0,98	T.	5	12	2	14	nw.	R. M. Hitt
Lebanon	Laclede	1,265	34	29.8	− 4.1	54	12	0	4	39	0.97	−1.53	0.42	2.0	4	18	4	6	n.	Leonard E. Dickerson
Lockwood	Dade	1,078	25	33.7	− 1.8	56	12†	4	4	33	1.25	−0.72	0.51	3.0	4	13	8	7	nw.	C. S. Crow
Mountain Grove	Wright	1,463	25	31.0	− 2.8	55	2	3	4	39	3.27	+1.01	1.40	1.5	8	13	3	12	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	35.7	− 0.9	60	13	7	4	34	1.19	−1.19	0.55	3.0	4	15	7	6	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	32.0	− 3.2	53	8	2	4	34	1.12	−1.22	0.45	0.5	7	10	10	8	n.	Prof. Elmo G. Harris
Seligman	Barry	1,542	15	35.4	− 0.8	59	23	6	4	36	2.05	+0.17	0.82	3.5	4	12^{a}	8^{a}	7^{a}	ne.	Floyd E. Fawver
Seymour	Webster	1,642	16	31.9	− 0.5	57	1	1	5	40	2.23	−0.22	0.57	4.0	6	12	8	8	nw.	Ira H. Hailey
Springfield	Greene	1,350	42	32 0	− 1.6	55	12	4	4	26	1.27	−1.00	0.50	4.3	9	12	5	11	n.	U. S. Weather Bureau
Section means and	extremes	.....	..	33.0	− 1.9	64	13	− 2	4	44	2.17	−0.27	2.20	2.3	6	13	6	9	nw	
Southwest Plain.																				
Amoret	Bates	831	15	29.9	− 3.8	59	12	1	4†	39	0.49	−1.66	0.18	1.3	5	16	6	6	nw.	Darby Fruit Farm
Appleton City	St. Clair	853	29	31.9	− 0.4	54	12	4	4	29	0.67	−1.30	0.29	0.5	7	11	9	8	nw.	W. G. Bigelow
Clinton	Henry	765	34	28.5^{a}	− 3.4	48	12†	6	3	25	0.95	−1.15	0.70	1.0	3	13^{a}	5^{a}	9^{a}	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	46	28.3	− 1.4	57	12†	1	4	47	0.69	−1.33	0.28	2.2	6	6	3	19	n.	John H. Patterson
Lamar	Barton	980	40	....	......	..	..	3	4	..	1.22	−1 01	0.85	1.0	3	12	0	16	n.	Joe W. Springer
Lamonte	Pettis	867	35	29.8	− 1.8	55	21	1	4	33	0.79	−1.12	0.35	2.0	6	12	9	7	nw.	J. E. Wheeler
Marshall	Saline	779	32	30.0^{a}	+ 0.5	54	21	0	4	31	0.66	−1.18	0.30	1.2	4	15^{a}	6^{a}	6^{a}	nw.	Dr. W. H. Black
Nevada	Vernon	862	30	32.8	+ 0.9	56	12	5	4	29	0.70	−1.38	0.50	0.5	3	10	6	12	n.	George A. Kaupp
Warsaw	Benton	687	26	32.2	− 1.6	59	23	3	4	35	1.50	−1.06	0.70	4.0	6	11	9	8	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	30.5	− 1.3	59	12†	0	4	47	0.85	−1.24	0.70	1 5	5	12	6	10	nw.	
Northwest Plateau.																				
Avalon	Livingston	730	24	29.1	+ 0.3	53	21	− 2	3	31	0.51	−1.66	0.35	2.0	2	17	3	8	nw.	F. G. Ashbaugh
Bethany	Harrison	916	30	27.0	+ 0 8	56	24	− 8	3†	38	0.30	−1.26	0.22	1.3	2	13	6	9	nw.	Owen Ross
Chillicothe	Livingston	779	13	25.6	− 6.2	52	21	− 4	4	47	0.18	−2.35	0 14	0.8	2	16	8	4	nw.	Wm. J. Olenhouse
Conception	Nodaway	980	37	27.6	+ 1.1	60	27	− 9	3	41	0.11	−1.15	0.06	0 5	2	11	11	6	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	9	26.6^{d}	......	50	24†	3	15	35	0.16	−1.54	0.11	0.5	2	20	2	6	nw.	Fred L. Stiff
Grant City	Worth	1,134	30	28.6	+ 2.0	60	24	− 7	3	41	0.36	−0.77	0.28	0.8	2	16	6	6	nw.	B. F. Locke
Kansas City	Jackson	963	32	30.2	+ 0.3	62	12	0	3	30	0.36	−1.23	0.22	1 2	4	11	10	7	nw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	34	26.5	− 0.2	55	13	− 3	3†	45	0.37	−1.26	0.32	0.5	2	18	1	9	nw.	Linn Terry
Lexington	Lafayette	688	39	31 6	+ 2 2	60	21	0	4	40	0.37	−1.63	0.15	1.2	5	13	8	7	n.	Edwin G. Loomis
Liberty	Clay	859	31	30.5	+ 1.1	62	12	− 1	3†	36	0 23	−1.71	0.15	1.3	3	12	9	7	nw.	James H. Harris
Maryville	Nodaway	1,109	27	27.2	+ 3.9	58	24	− 7	3	36	0.22	−1.28	0.18	0.2	3	20	1	7	n.	J. R. Brink
Oregon	Holt	1,048	66	27.6	− 0.4	52	12†	− 6	3	36	0.10	−1.60	0.07	0.7	2	11	8	9	nw.	Tom Curry
St. Joseph	Buchanan	967	49	28.8	− 1.0	56	12	− 4	3	34	0.20	−1.14	0.08	0.6	4	12	8	8	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	28	26.6	− 0.2	60	24	− 7	3	43	0.18	−0.88	0.10	1.2	3	14	6	8	nw.	Albert Volker
Trenton	Grundy	822	26	28.0	+ 0.3	54	24	− 3	3	31	0.20	−1.48	0.14	1.0	3	16	4	8	n.	W. H. Estes
Section means and	extremes	.....	..	28.1	+ 0.3	62	12	− 9	3	47	0.26	−1.40	0.51	0.9	3	15	6	7	nw.	
State means and	extremes	.....	..	30.2	− 1.2	75	13	− 9	3	52	1.37	−0.88	2.20	1.4	5	13	5	10	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b} represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for February, 1923.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	.40	.08				T.					.06	.01	.35											.02		.10	.02					1.04
Brunswick‖	Grand	.03	.06									.08		.03											.02		.15	.03					0.40
Clifton Hill	Chariton		.06								.03	.07	.20												.06		.14		.03				0.59
Columbia***	Missouri	.07	.03				.06		T.	T.	.03		.61												.10	.01	.06		.03				1.00
Downing	Mississippi											.04	.29												.06								0.39
Fayette‖†	Missouri																												.14				0.14
Fulton	do	.03	.02				.06			T.	.05		.60												.01		.30		T.				1.07
Gorin	Mississippi							.22				.05																					0.27
Hannibal***	do	.02	.07				T.			T.	.06		.30					T.							T.	T.	.07	T.	.01				0.53
Hermann‖	Missouri	1.40					.04	T.			T.	.02	.05	.52												.02	.29	.02					2.36
Jefferson City‖	do	.62	.03				.12					.12		.52												.03	.15						1.59
Kirksville	Mississippi										.08		.10																				0.18
Louisiana	do		.05	T.			.08			T.		.10	.56	.01											.05	.02	.04	T.	.02				0.93
Macon ‖	Chariton		T.					T.				.06														.06	.05		T.				0.17
Mexico ‖	Mississippi	.35	.09				.05			T.		.05		.56												.04	.11	.03	T.				1.28
Pacific‖	Meramec	.89	.09	.02			.10	.06			.10	.09	.05	.58												.09	.31	.02					2.40
Palmyra‖	Mississippi	.03	T.				T.					.12	T.	.31											.02			.05					0.53
St. Catharine	Grand		T.								.07		.05												.02		.07		T.				0.21
St. Charles	Missouri		.10	T.			.40			T.	.10	.20													.97	T.	.30		T.				2.07
St. Louis (1)***	Mississippi	.02	.07				.11			.08	.10		.78	.01				T.							.10	.09	.14		T.				1.50
St. Louis (2)	do	.03	.08				.14			.10	.18		.77	.01											.14	.14	.18		T.				1.77
Shelbina	do																																....
Steffenville	do	T.	T.				T.				.07		.05												T.	T.			T.				0.12
Union‖	Meramec	1.17	T.	.08			.08	.02			.05	.05	.07	.56												.03	.42	.03					2.56
Unionville	Chariton										.05	T.	.40	T.	T.																		0.45
Valley Park‖†	Meramec	.95	.08	.03			.04	T.		T.	.09	.15	.05	.67												.04	.26						2.36
Warrenton ‖	Mississippi	.91	.02	T.			.10	T.		.07	.05	.07	.06	.47											T.	.05	.25	.04					2.09
Keokuk, Ia.***	do	T.	T.				T.	T.			.06		.19	.03				T.		T					.07				T.				0.35
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi	1.90	.16	.33			T.	T.	T.	.05	.03	.10		.70												.05	.70	.05					4.07
Caruthersville	do	.25	.70	T.			.10			.70	.15		.65												T.	.20	.95	T.					3.70
Doniphan	Black	.30	.75				T.			.05	T.	T.	.75												T.	.15	.60		T.				2.60
Jackson	Mississippi	1.60	.74									.05	.50	.01												T.	.73		.03				3.66
Marble Hill	do	1.70	1.28									T.	.68														.90						4.56
New Madrid‖	do	.84	.05	1.84			.02	.04		.17	.10	.10	.01	.55													.45	.05					4.22
Parma	St. Francis	.86	1.32							.23			.70														.58						3.69
Patton (near)	Mississippi	1.65	1.90										.60														.65						4.80
Poplar Bluff	Black	.40	1.10				T.			.03			.78	.02												.12	.44						2.89
Vanduser	Mississippi	.70	.65										.97														.59						2.91
Cairo, Ill.***	do	.52	.74			T.	.11			.04	.02		.58	T.											T.	.45	.10	T.	.01				2.57
Ozark Plateau.																																	
Arcadia ‖	St. Francis	1.30	.48	.10			.05	.06			.04	.01		.62												.03	.38	.08					3.15
Birchtree	Black	2.20	.72									T.	.38													.07	.68						4.05
Bolivar	Osage			T.			.20				.04		.27													T.	.42		T.				0.93
Dean	Neosho	.02	.26				.18						.66													.08	.92						2.12
Eldon	Missouri										.05	.07	.41														.12						0.65
Farmington	St. Francis	1.16	1.00				.08			.05	.02		.68												T.		.58		.03				3.60
Gano	Meramec	.18	.64	T.			.41			.06	.04	.52	.04												.10	T.	.40	T.					2.39
Goodland	Black	.60	.70				.16				.08		.45																				1.99
Greenville	St. Francis	1.00	.65								.01	.03	.58												T.	.04	.83		T.				3.14
Hollister	White	1.30	1.60				.14																										3.04
Houston	Gasconade	.58	.43								.07		.50													.16	.43						2.17
Jerome ‖	do	.34	.18	T.			.16				T.	T.		.44												T.	.28	.07					1.47
Koshkonong	Black	.44	.98				T.			T.			.48													.15	.70		T.				2.75
Lebanon ‖	Osage	.42	.10				.20							.25													T.						0.97
Lockwood	do	T.		T.			.22				.07		.51														.45						1.25
Mountain Grove‖	White	1.40	.64	.05			.15				T.	T.	T.	.61											T.	.15	.20	.07					3.27
Neosho	Neosho	.05	T.	T.			.30				T.		.29												T		.55						1.19
Rolla	Meramec	.10	.10			.06				.08	.04		.45												T.	.29			T.				1.12
Seligman	Neosho	.50	.82	T.			.25			T.	T.		.48												T.	T.							2.05
Seymour	White	.23	.51	T.			.40			.05	T.		.57												T.	T.	.47	T.					2.23
Springfield***	do	.12	.10	T.		.20	.04			T.	.03		.24												.04	.10	.40		T.				1.27
Steelville‖	Meramec	.76	.14	.21			.21				.10	.12		.61													.44	.04					2.63
Tuscumbia ‖	Osage	.75	.03				.12	T.				.03	T.	.37											T.	T.	.31						1.61
Southwest Plain.																																	
Amoret	Osage	.01	.13	T.							.07		.10												T.	T.	.18		T.				0.49
Appleton City	do	.03	.01	T.							.03		.29												.03		.26		.02				0.67
Clinton	do										.10		.70														.15						0.95
Harrisonville‖	do	.19	.05									.12														.03	.28	.02					0.69
Lamar ‖	Neosho	.30					.07					T		.85												T.		T.					1.22
Lamonte	Missouri	.03	.03								.16		.35												.07		.15						0.79
Marshall	do		.24	T.								.11													.01		.30		T.				0.66
Nevada	Osage						T.				.05		.50														.15						0.70
Osceola‖†	do	.38					.25	.15	.70	.20																	.12						1.80
Warsaw	do	T.	T.	T.			.23				.20		.70												.15		.10		.12				1.50
Waverly ‖	Missouri	.03	.10	T.								.08	T.	T.												T.	.15	.09					0.45
Northwest Plateau.																																	
Avalon	Grand										.16																.35						0.51
Bethany	do		T.	T.			T.				.08		.22												T.		T.		T.				0.30
Chillicothe‖†	do	T.										.04	T.	T.											T.		.14		T.				0.18
Conception	Missouri		T.				T.				.05		.06	T.											T.								0.11
Edgerton	do		T.	T.							.05																.11						0.16
Grant City	Grand										.08		.28																				0.36
Kansas City***	Missouri	.03	T.								.11	T.													T.	.02	.20		T.				0.36
Kidder ‖	Grand											.05													.32								0.37
Lexington	Missouri	.03	.08									.10		.01													.15						0.37
Liberty	do		T.	.04							.04														T.		.15						0.23
Maryville	do			.03									.18												.01								0.22
Oregon	do		T.								.07		.03													T							0.10
St. Joseph***	do	T.	T.	T.			T.				.05		.08	T.											T.	T.	.06		.01				0.20
Tarkio	do		.03				T.		T.		.05														.10								0.18
Trenton	Grand		T.								.04		.14													T.	T.		.02				0.20

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. † Separate dates of fall not recorded.

Daily Temperatures for February, 1923.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	32	32	10	25	50	32	40	44	35	28	33	50	44	20	26	31	21	34	50	39	45	45	42	50	51	42	50	46	..	..	..	37.4
	Minimum	31	25	2	−2	−2	17	10	10	21	16	7	12	33	10	5	6	4	4	10	22	22	16	11	21	38	40	31	31	..	..	..	16.1
Columbia	Maximum	47	34	17	20	44	38	39	41	27	29	33	48	46	22	23	31	26	30	47	36	52	43	37	46	52	43	45	43	..	..	..	37.1
	Minimum	27	17	2	1	17	21	14	27	22	16	16	28	22	12	7	16	10	7	23	24	25	24	22	36	42	37	32	32	..	..	..	20.7
Fayette	Maximum	37	28	5	18	42	31	34	37	26	25	29	43	36	15	20	24	20	29	43	32	51	40	35	41	46	35	43	40	..	..	..	32.3
	Minimum	25	5	−5	−5	8	12	7	22	18	8	5	22	15	6	1	10	10	1	15	18	19	18	15	17	35	30	27	25	..	..	..	13.7
Hannibal	Maximum	41	34	18	17	41	38	35	39	28	29	31	43	42	18	20	26	20	29	45	38	49	36	32	47	49	41	46	40	..	..	..	34.7
	Minimum	28	18	−2	−1	13	22	16	27	21	19	14	28	18	8	5	14	10	6	22	25	23	24	16	31	40	35	32	30	..	..	..	19.4
Jefferson City §§	Maximum	40	38	12	20	44	38	37	48	28	32	35	48	46	22	24	30	30	30	50	35	50	43	40	47	50	41	42	44	..	..	..	37.3
	Minimum	39	28	4	2	5	18	15	16	23	19	19	22	34	14	8	10	17	7	10	25	24	24	23	29	38	40	32	32	..	..	..	20.6
Kirksville	Maximum	40	30	29	20	41	..	36	40	31	28	25	41	41	24	23	21	24	31	48	40	48	38	41	52	49	48	48	42	..	..	..	[a]36.3
	Minimum	22	22	−5	−4	15	..	6	26	19	15	6	8	23	3	1	10	12	2	19	24	19	17	18	15	18	19	29	31	..	..	..	[a]14.4
Louisiana	Maximum	50	40	35	18	34	40	26	42	44	36	32	36	46	40	24	24	25	25	42	45	46	50	38	40	48	46	45	43	..	..	..	38.2
	Minimum	38	34	0	−2	10	28	18	32	32	14	15	25	32	12	7	15	18	5	15	28	28	33	18	28	36	35	35	30	..	..	..	22.1
Macon §§	Maximum	32	27	6	20	45	31	35	42	32	30	32	44	48	18	23	28	22	30	44	30	51	40	40	48	48	41	47	44	..	..	..	34.9
	Minimum	28	24	−6	−6	2	15	8	8	20	14	6	14	30	7	3	4	4	1	16	22	16	21	18	19	27	37	30	31	..	..	..	15.0
Mexico §§	Maximum	34	33	12	19	43	39	39	44	26	30	33	44	44	24	24	31	24	31	48	37	53	44	38	45	53	41	45	42	..	..	..	36.4
	Minimum	32	26	−2	−3	11	11	12	14	26	14	10	18	32	10	4	5	14	4	19	25	21	19	20	22	36	36	30	30	..	..	..	17.7
St. Catharine	Maximum	28	32	31	22	45	42	36	41	32	30	28	45	41	26	24	29	27	30	45	39	51	45	34	50	49	48	47	44	..	..	..	37.2
	Minimum	22	23	−1	−2	13	24	8	23	20	23	3	25	25	7	3	11	13	2	20	24	19	17	19	28	36	33	27	32	..	..	..	17.8
St. Louis (1)	Maximum	54	45	31	15	36	36	37	51	31	31	31	46	54	26	23	30	29	28	49	39	48	41	36	41	47	45	41	45	..	..	..	38.1
	Minimum	32	31	4	1	14	25	23	31	23	21	17	24	26	15	8	15	12	11	23	29	29	27	22	29	40	39	34	30	..	..	..	22.7
Unionville	Maximum	38	30	30	23	48	42	38	37	34	32	27	38	40	25	22	27	25	32	43	40	46	40	34	53	51	48	48	46	..	..	..	37.0
	Minimum	20	16	−7	−8	12	20	4	25	16	10	8	20	20	0	0	8	10	2	17	20	18	16	15	25	34	30	25	31	..	..	..	14.5
Warrenton §§	Maximum	40	39	10	18	41	39	37	46	25	31	32	43	48	23	22	28	26	30	49	37	50	41	36	44	52	43	39	40	..	..	..	36.0
	Minimum	39	28	3	−1	0	13	16	16	21	17	15	19	31	14	6	7	16	5	6	24	23	23	21	22	35	37	32	28	..	..	..	18.4
Southeast Lowlands.																																	
Caruthersville	Maximum	67	60	60	25	36	42	50	60	57	35	40	65	75	50	38	41	47	43	60	55	57	68	41	55	52	55	50	60	..	..	..	51.6
	Minimum	57	45	25	12	18	28	28	32	35	28	28	32	45	28	20	20	20	15	22	31	28	30	29	28	32	39	42	36	..	..	..	29.8
Doniphan	Maximum	64	61	48	21	38	44	44	53	48	37	36	47	61	47	37	37	40	33	51	50	53	51	45	47	45	50	49	55	..	..	..	46.2
	Minimum	58	40	18	9	15	31	28	29	34	26	24	23	25	24	15	16	19	10	19	25	23	23	24	22	29	40	42	28	..	..	..	25.7
Jackson	Maximum	59	47	48	17	38	39	44	56	45	30	37	46	64	43	29	33	38	33	47	43	50	46	42	46	50	47	44	52	..	..	..	43.3
	Minimum	41	46	12	6	13	25	27	28	28	22	23	23	41	22	13	15	19	8	17	28	21	23	22	24	39	39	36	26	..	..	..	24.5
Poplar Bluff	Maximum	63	58	49	21	32	42	41	51	50	36	35	47	65	46	37	34	33	31	50	50	49	49	47	44	44	48	49	46	..	..	..	44.5
	Minimum	58	39	17	10	16	27	29	30	35	26	24	25	43	24	16	18	20	12	21	31	26	29	24	25	40	40	42	31	..	..	..	27.8
Cairo, Ill.	Maximum	62	55	40	18	31	38	40	52	45	34	35	52	65	36	26	31	37	27	46	42	46	45	38	49	50	52	46	53	..	..	..	42.5
	Minimum	43	40	12	9	17	25	30	34	28	26	25	32	33	22	15	18	16	12	23	33	28	32	26	29	41	41	36	33	..	..	..	27.1
Ozark Plateau.																																	
Arcadia §§	Maximum	56	48	18	19	38	40	42	55	31	32	37	46	59	36	31	35	35	37	54	46	54	49	43	41	45	45	44	50	..	..	..	41 6
	Minimum	47	33	16	2	2	10	21	21	27	20	20	22	30	18	10	10	17	5	10	21	20	22	20	23	28	38	36	25	..	..	..	20.5
Birchtree	Maximum	60	51	48	18	40	44	41	49	49	34	35	50	56	38	30	33	32	35	57	..	48	49	48	43	45	45	43	43	..	..	..	[a]43.1
	Minimum	49	38	13	5	12	26	14	26	28	28	20	25	38	20	12	15	12	6	21	..	25	27	23	27	38	39	38	27	..	..	..	[a]24.1
Eldon	Maximum	53	54	35	24	45	36	40	45	35	55	40	50	41	..	25	32	31	34	50	50	52	47	42	50	54	47	45	42	..	..	..	[a]42.7
	Minimum	27	27	1	0	12	25	14	31	23	19	14	28	14	..	6	15	13	6	21	24	24	21	22	31	29	37	31	28	..	..	..	[a]20.1
Farmington	Maximum	53	49	47	18	40	37	39	53	50	33	38	43	55	39	25	30	32	33	53	46	48	43	44	42	45	43	41	44	..	..	..	41.5
	Minimum	37	33	9	2	10	23	21	28	26	20	20	24	38	18	9	14	18	7	18	27	25	27	22	27	39	40	34	26	..	..	..	22.9
Hollister	Maximum	58	56	49	40	48	50	52	56	58	56	58	60	56	50	44	40	46	40	60	62	55	56	50	55	58	50	56	58	..	..	..	52.8
	Minimum	40	38	16	8	16	32	34	28	30	28	20	30	32	20	15	12	18	8	18	22	20	19	20	28	30	28	32	36	..	..	..	24.2
Koshkonong	Maximum	62	58	51	20	39	44	43	57	50	39	39	52	58	38	32	36	39	34	60	49	54	51	48	44	45	50	48	54	..	..	..	46.2
	Minimum	57	41	15	8	15	27	23	29	33	26	23	24	37	22	13	16	20	9	20	30	21	31	27	28	38	40	40	33	..	..	..	26.6
Lebanon §§	Maximum	52	45	25	25	43	35	39	46	29	32	40	54	50	28	29	34	37	34	37	42	50	44	50	48	50	49	48	57	..	..	..	41.1
	Minimum	48	28	8	0	4	14	10	10	28	24	17	17	32	13	6	6	14	4	10	24	20	20	22	22	23	39	29	29	..	..	..	18.6
Mountain Grove §§	Maximum	54	55	14	21	40	36	41	54	29	31	36	52	51	33	30	33	34	34	52	44	50	47	49	48	45	45	46	45	..	..	..	41.0
	Minimum	52	34	13	3	5	15	16	16	29	21	21	22	30	17	10	10	16	5	13	18	22	24	24	24	29	37	36	30	..	..	..	21.1
Neosho	Maximum	59	49	46	29	34	39	40	56	49	35	43	58	60	41	29	36	38	38	52	53	53	51	59	57	50	50	48	51	..	..	..	46.5
	Minimum	32	31	13	7	14	24	9	30	29	27	23	34	39	20	14	16	16	9	22	22	24	23	25	42	42	44	38	29	..	..	..	24.9
Rolla	Maximum	49	46	41	20	42	37	40	53	39	31	38	50	51	34	35	35	32	33	52	46	49	48	46	43	49	48	43	44	..	..	..	41.9
	Minimum	33	31	7	2	9	26	17	30	24	20	16	27	32	16	9	9	16	5	21	26	22	25	23	32	39	40	36	29	..	..	..	22.2
Springfield	Maximum	55	49	30	26	38	32	39	50	35	32	36	55	51	28	27	31	34	30	48	41	48	45	49	46	47	45	42	45	..	..	..	40.5
	Minimum	30	30	6	4	17	22	13	32	25	22	19	29	28	16	10	17	15	10	26	28	27	29	28	34	40	37	34	32	..	..	..	23.6
Southwest Plain.																																	
Amoret	Maximum	42	34	31	29	46	36	41	38	36	30	40	59	45	32	26	32	35	35	52	41	53	47	49	49	48	48	50	49	..	..	..	41.2
	Minimum	22	12	2	1	13	18	9	24	22	14	1	29	28	9	6	15	12	4	23	22	20	22	21	37	40	34	29	31	..	..	..	18.6
Appleton City	Maximum	44	34	33	28	44	38	40	39	36	30	39	54	50	32	25	33	35	32	51	43	53	47	51	48	50	47	47	47	..	..	..	41.0
	Minimum	26	26	6	4	18	29	13	27	25	20	11	32	32	13	10	18	15	7	24	26	24	25	26	39	41	37	31	32	..	..	..	22.8
Clinton	Maximum	45	32	11	24	38	33	36	37	37	29	36	48	48	30	22	29	29	30	44	36	43	42	42	..	42	38	40	44	..	..	..	[a]35.8
	Minimum	25	25	6	11	19	19	15	27	25	20	11	32	19	14	10	17	16	10	25	25	25	25	25	..	30	32	30	34	..	..	..	[a]21.2
Harrisonville §§	Maximum	32	31	15	27	48	36	41	39	31	27	37	57	40	19	27	34	35	35	49	41	57	49	47	48	48	43	51	49	..	..	..	39.0
	Minimum	31	24	3	1	3	17	9	11	23	17	3	10	36	9	7	6	14	4	13	22	22	21	21	23	39	41	31	31	..	..	..	17.6
Lamar §§	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	38	25	7	3	4	25	12	29	24	22	17	30	38	15	9	15	13	6	23	24	21	23	24	37	38	40	33	28	..	..	..	22.2
Lamonte	Maximum	44	33	31	28	49	35	41	40	32	29	38	52	45	27	27	31	29	35	49	39	55	47	43	48	51	47	49	46	..	..	..	40.0
	Minimum	24	26	2	1	17	23	10	26	19	14	5	28	25	10	6	14	14	4	22	22	22	21	23	34	40	35	30	30	..	..	..	19.5
Marshall	Maximum	34	..	31	23	45	42	37	43	38	39	34	48	49	31	28	29	25	32	48	43	54	48	40	50	50	49	48	46	..	..	..	[a]40.1
	Minimum	24	..	2	0	15	25	9	25	22	24	15	29	30	9	5	13	13	2	22	23	23	20	20	28	41	35	31	30	..	..	..	[a]19.8
Nevada	Maximum	41	37	34	29	46	38	40	44	36	32	40	56	53	30	26	34	36	34	53	42	52	46	54	49	51	48	47	48	..	..	..	42.0
	Minimum	26	26	8	5	19	30	16	28	24	22	16	36	30	12	11	17	14	9	29	26	23	25	27	40	42	33	33	30	..	..	..	23.5
Warsaw	Maximum	50	37	33	25	45	40	39	41	37	32	40	52	51	32	25	33	33	33	48	45	51	51	59	48	51	51	46	45	..	..	..	41.9
	Minimum	26	26	6	3	17	27	15	26	24	19	17	33	32	13	9	14	17	5	22	26	21	21	24	38	42	37	37	32	..	..	..	22.5
Northwest Plateau.																																	
Chillicothe §§	Maximum	29	30	8	24	48	34	40	41	33	25	33	59	38	17	24	29	23	33	35	37	52	41	43	51	49	44	48	44	..	..	..	36.1
	Minimum	26	21	−2	−4	4	19	8	8	20	12	3	12	31	6	3	4	13	2	8	20	20	19	19	19	38	34	28	28	..	..	..	15.1
Grant City	Maximum	40	31	34	27	52	51	44	44	34	35	30	50	43	27	29	31	32	33	44	43	49	44	40	60	54	52	52	50	..	..	..	41.2
	Minimum	15	18	−7	−6	15	18	2	23	19	13	12	22	20	0	1	10	11	3	22	19	20	17	20	31	38	30	24	34	..	..	..	15.9
Kansas City	Maximum	36	31	12	28	51	34	42	39	35	28	34	62	48	20	26	30	29	36	47	39	54	46	46	50	50	45	49	47	..	..	..	39.1
	Minimum	23	12	0	2	21	18	14	26	21	21	15	34	18	8	5	20	12	10	27	25	28	28	24	42	43	34	30	38	..	..	..	21.4
Kidder §§	Maximum	42	43	6	25	32	51	39	40	39	26	34	32	55	17	18	29	16	42	48	37	51	53	44	49	52	52	49	45	..	..	..	38.1
	Minimum	23	25	−3	−3	3	6	7	12	17	18	10	15	10	5	3	4	5	3	18	20	20	25	30	18	32	33	34	28	..	..	..	14.9
Lexington §§	Maximum	40	40	32	32	40	51	40	41	42	35	38	31	57	49	30	26	35	32	40	52	46	60	53	48	50	51	48	59	..	..	..	42.8
	Minimum	26	25	1	0	17	25	9	25	22	15	8	28	29	8	6	13	14	5	23	23	25	21	22	34	42	38	30	35	..	..	..	20.3
Maryville	Maximum	32	30	17	29	54	44	43	40	34	28	26	51	40	20	24	27	24	35	44	40	46	40	40	58	52	48	50	45	..	..	..	37.9
	Minimum	16	17	−7	−5	18	16	3	24	20	16	9	24	18	1	2	12	11	2	24	24	24	18	21	24	37	30	24	35	..	..	..	16.4
Oregon	Maximum	32	30	22	29	50	38	42	38	32	29	30	52	40	20	22	27	23	34	45	40	46	39	43	52	50	44	47	44	..	..	..	37.1
	Minimum	16	19	−6	−2	21	17	6	25	21	18	11	27	19	2	2	14	11	5	27	23	26	20	21	37	38	31	25	35	..	..	..	18.2
St. Joseph	Maximum	34	30	10	29	53	35	44	37	34	26	34	56	42	17	25	29	26	36	46	35	49	43	44	53	49	45	50	46	..	..	..	37.8
	Minimum	19	10	−4	1	23	15	10	24	22	17	14	34	14	5	4	16	12	8	28	25	27	24	22	44	42	32	28	36	..	..	..	19.7
Trenton	Maximum	38	32	28	25	44	35	37	38	32	28	28	40	36	23	21	28	30	44	38	47	39	37	36	54	52	46	47	46	..	..	..	36.8
	Minimum	20	19	−3	−1	15	22	[illegible]	28	22	18	15	22	23	5	5	14	6	21	22	23	22	21	22	31	38	33	28	35	..	..	..	19 1

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. † Interpolated

UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

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CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVII. COLUMBIA, MO., MARCH, 1923. NO. 3.

GENERAL SUMMARY.

March, 1923, in Missouri, was cold, wet, and stormy. Notwithstanding these rather marked and unpleasant features, the sunshine, 61 per cent of the possible, was a mitigating element from the side of personal comfort. It is also true that this last element was in most evidence only during the last 6 or 8 days of the month. Real winter weather prevailed on the 18th, and 19th. On the former date snow with strong winds prevailed all day, along with steadily falling temperatures. Morning thermometer readings of the 19th ranged from 11° below zero in the northern counties to 10° above in the extreme southeast counties. At many stations readings were the lowest of record for so late in March. The 24-hour falls ranged from 45° to 65°.

More or less damaging storms occurred on several dates. Blizzard-like weather prevailed in northern sections on the 18th, and particularly on the northern border, where snow drifted three feet deep in places. Traffic was interfered with a short time.

The weather was unfavorable for vegetation. Winter wheat continued in fair to good condition but made little growth. Peach buds were seriously killed by the freeze of the 19th. Some clover, alfalfa, and oats were cut down Much plowing had been done in the winter, and seeding oats made good progress during the last week of March.

TEMPERATURE.

The monthly mean temperature for the State, based upon the records of 71 stations, was 40.4°. The mean departure from the normal for 68 stations having 10 or more years' record was minus 3.1°. This is the first minus departure since 1915. Temperatures alternated above and below normal frequently, the colder periods being somewhat more prolonged than the milder ones. The first three days were the mildest of the month, particularly the afternoons. The 18th and 19th were the coldest days. The 19th was a real winter day; on this date morning thermometer readings ranged from 11°, 10°, 7°, and 6° below zero, respectively, at Grant City, Bethany, Unionville, and Downing, to 10° above zero in the extreme Southeast. Zero readings occurred at 32 stations. This probably was colder than any day during the winter. There were other cold days, 15° above zero on the 31st, being unusual for so late in the season.

PRECIPITATION.

The average precipitation for the State, 89 stations reporting, was 4.12 inches. The mean departure from the normal for 83 stations having 10 or more years' record was plus 1 00 inch. In the northeast plain, southeast lowlands, and southwest plain the excess was more than one inch; in the Ozark region and northwest plateau the excess was .18 inch and 70 inch, respectively. From the 3d to the 16th there was rain or snow almost every day, the periods 5th-6th, 9th-13th, and 15th-16th being the ones of the most general precipitation. The heaviest rains, generally more than two inches, fell on the 11th. The greatest monthly amount was 8.30 inches, at Poplar Bluff. There was no precipitation during the last week.

There was almost no snow south of the Missouri River, except in the southwest plain. North of the river snow was heavier than any during the winter, and the heaviest in March since 1918. In fact the fall at one or two stations this month exceeded all other records for March. Along the immediate northern border amounts ranged from about 6 to 17 inches. Most of the snow fell on the 12th, and 18th. It remained on the ground a few days.

WIND.

The prevailing winds were from the southwest. The average movement, 8 stations equipped with anemometers reporting, was 9,450 miles, or about 19 per cent above normal. Winds of 35 miles an hour prevailed on the 3rd, 11th, and 15th. Some of these storms had the associated features of the tornado. See Special Storm Notes.

SUNSHINE AND CLOUDINESS.

There were 14 clear days The average number of hours of sunshine, 6 well selected stations equipped with sunshine recorders reporting, was 226. This is about 61 per cent of the possible, about 11 per cent above normal, and 19 per cent more than March, 1922.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---On the 11th, at St. Louis. In the extreme Southeast on the 6th, and 7th.

Hail.---3d, 12th, 14th, 15th, and 22d.

Halos, solar.---4th, 7th, 10th, 14th, 16th, 20th, 26th, 27th, and 28th.

Halos, lunar.---1st, 2d, 4th, 27th, and 29th.

Sleet.---10th, 11th, 14th, 15th, and 22d.

Thunderstorms.---3d, 9th, and 22d. More or less general and severe on the 11th, and 15th.

SPECIAL STORM NOTES.

March 3.—A funnel-shaped cloud extending to the ground, originating in Kansas, crossed the Missouri River at St. Joseph at about 5.33 p. m. On the Missouri side of the river the width of the path was about 200 feet. At the Weather Bureau observatory, about three-fourths of a mile from the nearest point in the path, the wind reached 60 miles an hour from the west at 5.40 p. m. Nine persons were injured but none killed. The property damage was estimated to be about $50,000.

March 5.—A strong wind, accompanied by considerable rainfall, caused about $3,000 damage to farm homes and other buildings west of Palmyra, Marion County, at about 9 p. m. There was some evidence of rotary winds. The path of damage was about one hundred yards wide. No person was killed or injured.

March 11.- At Jackson, Cape Girardeau County, a storm having marked features of a tornado passed over the town at 7.45 p. m. The path was about six miles long and 225 yards wide. There was considerable evidence of rotary winds though the funnel-shaped cloud was not observed, owing probably to darkness. Two persons were injured but none killed. The estimated damage is put at about $50,000. At 10 p. m. same date, a storm closely approximating tornadic force passed over the town of Farmington, St. Francois County. About the same time high winds occurred in Mississippi County, and at Caruthersville, Poplar Bluff, and Doniphan. A velocity of 64 miles an hour was recorded at St. Louis. The reported damage was small, about $3,000.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
								Max. velocity.		
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Miles per hour.	Direction.	Date.
Columbia	30.07	74	62	230	62	8,270	11.1	35	nw.	15
Hannibal	30.05	70	..	...	..	8,689	11.7	40	sw.	3
Kansas City	30.04	72	53	244	66	10,939	14.7	49	nw.	15
St. Joseph	30.03	75	59	229	62	8,528	11.5	39	w.	3
St. Louis	30.05	71	59	239	64	11,944	16.1	64	sw.	11
Springfield	30.05	75	57	181	49	10,168	13.7	46	sw.	11
Cairo, Ill	30.09	70	56	...	..	9,571	12.9	48	sw.	12
Keokuk, Iowa	30.07	71	60	230	62	7,515	10.1	37	w.	4

COMPARATIVE DATA FOR MARCH.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	38.5	−4.8	90	1	4.02	+1.11	....	....	10	....	....	....
1889	44.3	+1.0	84	13	1.98	−0.93	....	....	5	....	....	....
1890	37.3	−6.0	76	−11	2.61	−0.30	....	5.7	8	....	....	....
1891	36.6	−6.7	78	−11	3.01	+0.10	....	7.1	10	....	....	....
1892	38.9	−4.4	87	5	3.11	+0.20	....	....	8	8	10	13
1893	40.5	−2.8	86	1	2.86	−0.05	2.15	3.2	7	11	10	10
1894	47.7	+4.4	89	2	2.93	+0.02	3.20	0.2	6	15	9	7
1895	42.4	−0.9	98	0	2.14	−0.77	3.00	4 4	9	14	7	10
1896	39.2	−3.9	82	2	2.05	−0.86	4.47	5.2	8	11	9	11
1897	44.2	+0.9	93	−5	6.07	+3.16	4.10	1.0	12	9	9	13
1898	44.7	+1.4	83	9	7.09	+4.18	3.87	0.6	11	11	7	13
1899	37.4	−4.1	78	−8	2.93	+0.02	4.30	8.9	6	9	11	11
1900	40.4	−1.9	88	−4	1.48	−1.43	3.41	0.2	6	15	9	7
1901	42.7	−0.6	85	−1	3.74	+0.83	3.21	1.8	8	11	8	12
1902	45.3	+2.0	85	1	3.49	+0.58	5.60	0.8	9	10	10	11
1903	46.8	+3.5	81	9	3.35	+0.44	6.19	1.1	8	13	7	11
1904	44.8	+1.5	87	8	4.14	+1.23	7.50	1.2	9	11	9	11
1905	50.3	+7.0	88	10	2.99	+0.08	2.67	T.	18	11	8	12
1906	34.6	−8.7	75	−5	3.93	+1.02	3.00	8.6	1	6	7	18
1907	53.9	+10.6	95	16	2.82	−0.09	3.08	1.0	7	14	7	10
1908	50.1	+6.8	89	14	2.58	−0.33	2.55	1.0	7	14	7	10
1909	44.5	+1.2	81	9	3.07	+0.16	3 30	0.6	6	13	9	9
1910	55.8	+12.5	96	15	0.66	−2.25	2.25	0.1	2	20	7	4
1911	46.8	+3.5	91	5	1.85	−1.06	2.00	1.4	6	16	8	7
1912	35.2	−8.1	89	−4	4.62	+1.71	2.85	16.5	11	12	6	13
1913	40.6	−3.7	84	−12	4.36	+1.31	7.97	5.0	9	12	8	11
1914	43.2	−1.3	87	−2	2.75	−0.41	3.01	4.7	8	13	7	11
1915	36.4	−8.1	70	6	1.50	−1.74	1.85	7.9	6	7	8	16
1916	47.0	+1.3	95	−2	2.53	−0.65	4.25	3.1	7	14	8	9
1917	45.2	+1.7	86	−7	2.91	−0.42	4.08	1.5	7	15	7	9
1918	50.9	+7.8	95	8	0.94	−2.05	2.25	0.1	4	18	6	7
1919	46.3	+2.9	90	−2	2.40	−0.69	5.37	0.7	6	15	8	8
1920	44.6	+1.4	86	−6	5.01	+2.09	6.00	1.4	8	15	6	10
1921	51.9	+8.5	90	11	4.69	+1.68	2.88	0.5	10	13	9	9
1922	45.6	+1.4	80	3	6.46	+3.38	4 00	2.2	12	11	6	14
1923	40.4	−3.1	83	−11	4.12	+1.00	2.84	2.3	8	14	6	11
....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....

Climatological Data for March, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	42	37.4	− 3.7	78	2	1	19†	66	3.98	+1.50	1.73	4.2	9	15	1	15	nw.	O. K. Benecke
Clifton Hill	Randolph	731	22	39.6	− 1.0	75	2	− 1	19	43	3.34	+0.72	1.53	1.8	10	15	6	10	......	Dr. A. J. Bradsher
Columbia	Boone	748	31	39.5	− 1.9	73	2	2	19	41	3.61	+0.58	1.41	0.8	10	15	2	14	s.	U. S. Weather Bureau
Downing	Schuyler	878	11	36.2	......	74	2	− 6	19	46	3.86	+1.46	1.05	11.2	12	13	6	12	n.	E. E. St. Clair
Fayette	Howard	661	38	34.2	− 7.5	70	2	− 4	19	43	3.90	+1.25	1.92	0.6	8	..	..	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	29	41.5	− 2.3	70	2†	1	19	44	4.19	+1.28	1.95	0.1	11	14	9	8	se.	Westminster College
Gorin	Scotland	700	34	....	.....	..	..	....	..	..	3.56	+1.09	1.50	2.7	7	15	5	11	s	I. S. McCollom
Hannibal	Marion	534	37	37.8	− 3.2	71	2	0	19	40	4.24	+1.48	2.28	1.2	11	14	5	12	nw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	41.1	− 2.1	76	2	1	19	42	3.37	+0.55	1.45	0.8	8	19	2	10	n.	Miss Emma Swift
Kirksville	Adair	969	39	35.5	− 3.1	74	2	− 5	19	46	4.58	+1.87	2.03	5.5	5	12[a]	2[a]	16[a]	sw.	Prof. J. S. Stokes
Louisiana	Pike	469	40	42.4[a]	+ 0.1	73	3	....	..	..	5.69	+3.02	2.50	4.1	10	17	3	11	n.	J. T. Farrell
Macon	Macon	875	28	35.5	− 6.7	74	2	− 3	19	57	3.74	+1.22	1.26	2.5	12	15	6	10	ne.	W. C. Brown
Mexico	Audrain	800	43	37.9	− 3.4	72	2	− 2	19†	62	3.96	+1.29	1.50	0.2	12	18	1	12	w.	Mrs. Abbie Snoddy
Palmyra	Marion	652	22	37.8	− 1.6	71	2	− 3	19	60	3.71	+0.80	1.92	4.8	7	16	4	11	nw.	W. B. Markell
St. Catharine	Linn	800	12	37.6	− 4.9	75	2	− 3	19	47	3.45	+0.87	1.05	8.0	11	12	11	8	s.	L. D. Baker
St. Charles	St. Charles	456	43	42.2	− 1.3	77	2	2	19	43	3.04	−0.10	1.34	0.2	5	12	8	11	n.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	41.4	− 2.4	77	2	4	19	48	4.26	+0.83	1.64	0.1	11	12	9	10	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	41.0	− 2.6	77	2	4	19	45	4.53	+1.58	1.66	0.1	11	15	7	9	se.	St. Louis University
Shelbina	Shelby	779	28	....	......	..	..	....	..	..	3.40	+0.78	2.10	4.4	4	..	..	..	.....	S. G. Parsons
Steffenville	Lewis	650	28	38.6	− 2.8	75	2	− 2	19	38	4.65	+1.83	1.00	1.0	10	11	8	12	s.	Frank Hall
Unionville	Putnam	1,062	28	35.4	− 2.0	75	2	− 7	19	45	4.22	+1.91	0.90	9.0	10	10	6	15	n.	Geo. W. Davis
Warrenton	Warren	816	31	38.8	− 2.7	77	2	0	19	57	4.02	+0.73	1.82	0.5	8	18	5	8	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	49	36.0	− 2.9	71	2	− 4	19	42	3.54	+1.17	1.09	6.3	10	12	7	12	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	38.3	− 3.1	78	2	− 7	19	66	3.95	+1.22	2.50	3.0	9	14	5	12	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	49.9	− 1.3	77	22†	12	19	41	6.98	+2.98	1.95	0	9	20	2	9	e.	H. E. Averill
Doniphan	Ripley	344	17	45.9	− 3.5	73	2	7	19	41	7.92	+4.33	2.50	0	10	18	5	8	s.	W. W. Martin
Jackson	Cape Girardeau	428	31	44.8	− 2.4	73	2	6	19	41	6.16	+1.82	2.22	0	10	5	14	12	s.	John G. Putz
Marble Hill	Bollinger	470	27	45.2	− 2.2	73	2	6	19	42	7.90	+3.72	2.43	0	9	16	7	8	n.	R. A, DeWitt
Parma	New Madrid	281	..	....	......	..	..	....	..	..	8.19	......	2.84	0	8	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	11	....	......	..	..	....	..	..	6.32	+2.26	2.00	0	7	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	339	17	45.2	− 3.6	67	2†	8	19	33	8.30	+3.78	2.84	0	11	19	2	10	sw.	Rev. J. A. Gallaher.
Vanduser	Scott	304	..	....	.....	..	..	....	..	..	6.46	+1.96	1.94	0	8	..	..	..	....	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	44.7	− 2.5	70	22	9	19	45	5.00	+0.98	2.05	T.	9	7	13	11	s.	U. S. Weather Bureau
Section means and	extremes	....	..	46.0	− 2.6	77	22†	6	19	45	7.03	+2.73	2.84	0	9	14	7	10	s.	
Ozark Plateau.																				
Arcadia	Iron	926	43	41.2	− 3.6	75	2	2	19	49	5.32	+1.25	2.02	T.	6	15	7	9	w.	Arcadia College
Birchtree	Shannon	1,000	28	43.6	− 3.8	75	2	3	19	40	5.66	+1.41	2.25	0	7	20	2	9	sw.	V. H. Kirkendall
Bolivar	Polk	1,071	32	42.6	− 3.5	69	2	2	19	46	2.67	−0.37	0.90	0.5	7	17	10	4	sw	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	39.7	− 9.2	78	3	6	18	42	4.08	+0.73	2.26	0	7	17	6	8	sw.	H. E. Dean
Eldon	Miller	934	22	42.0	− 1.5	75	2	0	19	56	2.43	−0.40	0.95	T.	6	2	15	14	sw.	E. H. Shepherd
Farmington	St. Francois	918	24	43.4	− 3.5	76	2	3	19	40	4.62	+1.35	1.81	T.	8	12	11	8	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	41.5	− 5.4	76	2	− 2	19	43	4.23	+0.93	1.43	T.	7	17	1	13	nw.	A. C. Leach
Goodland	Iron	1,000	28	42.2	− 2.7	77	2	2	19	50	4.87	+0.62	1.75	0	5	17	4	10	s.	F. M. Adams
Greenville	Wayne	381	..	44.8	......	74	2	7	19	42	6.07	......	2.13	0	10	21	4	6	s	J. J. Amen.
Hollister	Taney	735	18	45.4	− 3.3	79	3	5	19	51	4.20	+0.97	1.80	0	4	16	5	10	sw.	W. P. Chapmann
Houston	Texas	1,280	29	43.0	− 3.6	77	2	3	19	51	3.40	−0.73	1.54	0	4	15	4	12	sw.	Walter T. Beard
Koshkonong	Oregon	958	20	45.8	− 3.8	76	2	5	19	39	5.36	+1.55	2.00	0	8	12	10	9	sw.	R. M. Hitt
Lebanon	Laclede	1,265	34	39.6[b]	− 5.8	77	2	− 1	19†	60	1.91	−1.54	0.55	T.	7	15[b]	2[b]	12[b]	s	Leonard E. Dickerson
Lockwood	Dade	1,078	25	42.2	− 5.7	73	2	3	19	41	3.07	+0.61	1.33	T.	5	16	7	8	sw.	C. S. Crow
Mountain Grove	Wright	1,463	25	39.8	− 6.2	74	2	2	19	50	4.61	+0.27	1.61	T.	8	10[a]	7[a]	13[a]	sw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	45.5	− 2.7	76	2	5	19	48	2.99	−0.48	1.50	T.	5	15	8	8	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	43.8	− 1.2	77	2	0	19	43	4.07	+0.48	1.51	0.1	5	15	12	4	n.	Prof. Elmo G. Harris
Seligman	Barry	1,542	15	44.2	− 2.0	73	2	3	19	40	3.09	−0.85	1.07	T.	5	15	6	10	sw	Floyd E. Fawver
Seymour	Webster	1,612	16	42.8	− 2.4	73	2	0	19	42	3.43	−0.63	1.44	T	6	14	5	12	w.	Ira H. Hailey
Springfield	Greene	1,350	42	41.6	− 1.9	73	2	2	19	38	2.40	−1.67	0.88	0.1	6	14	5	12	se.	U. S. Weather Bureau
Section means and	extremes	....	..	42.7	− 3.8	79	3	− 2	19	60	3.94	+0.18	2.26	T.	6	15	6	10	sw.	
Southwest Plain.																				
Amoret	Bates	831	15	41.2[d]	− 2.7	76	2	0	18	47	4.25	+1.75	1.65	T.	8	17[d]	6[d]	4[d]	sw.	Darby Fruit Farm
Appleton City	St. Clair	853	29	42.5	− 2.1	74	2	3	19	45	4.23	+1.16	2.10	0.2	10	14	9	8	sw.	W. G. Bigelow
Clinton	Henry	765	34	43.4	− 0.9	72	29	3	19	40	5.89	+3.03	2.00	0.1	7	17	3	11	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	46	38.3	− 2.6	79	2	1	19	54	3.17	+0.48	1.20	2.4	8	9	3	19	nw.	John H. Patterson
Lamar	Barton	980	40	41.6[e]	− 4.6	70	2†	2	19	40	3.42	+0.52	1.50	1.0	7	12	3	16	n.	Joe W. Springer
Lamonte	Pettis	867	35	40.3	− 3.4	77	2	0	19	45	4.49	+1.89	2.25	T.	9	13	8	10	se.	J. E. Wheeler
Marshall	Saline	779	32	41.0[b]	− 1.5	74	2	1	19	43	3.72	+1.01	1.50	2.0	8	12[b]	9[b]	8[b]	n.	Dr. W. H. Black
Nevada	Vernon	862	30	43.7	− 0.6	75	2	4	19	50	4.32	+0.33	2.07	T.	5	19	1	11	s.	George A. Kaupp
Warrensburg	Johnson	878	43	39.9[c]	− 3.7	75	2	4	18	43	2.53	−0.01	1.00	5.2	8	..	..	..	..	S. I. Major.
Warsaw	Benton	687	26	43.3	− 3.6	74	2	2	19	47	4.50	+1.27	1.75	2.0	7	13	10	8	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	41.5	− 2.6	79	2	0	18†	54	4.05	+1.14	2.25	1.3	8	14	6	11	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	24	38.1	− 3.2	78	2	0	19	32	4.35	+1.47	1.60	2.0	7	17	2	12	sw.	F. G. Ashbaugh
Bethany	Harrison	916	30	37.4	− 1.5	78	2	−10	19	50	3.26	+1.07	1.12	7.1	10	12	8	11	ne.	Owen Ross
Chillicothe	Livingston	779	13	35.4	− 5.0	78	2	− 1	19†	58	3.28	+0.81	1.06	3.0	7	18	2	11	e.	Wm. J. Olenhouse
Conception	Nodaway	980	37	36.4	− 2.0	83	2	− 6	19	48	1.82	+0.12	0.71	8.0	6	13	7	11	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	9	36.7[f]	......	67	2	− 1	19	37	1.57	−0.85	0.79	0.5	7	15	6	10	sw.	Fred L. Stiff
Grant City	Worth	1,131	30	38.0	− 1.9	80	2	−11	19	56	2.24	+0.29	0.90	9.0	8	13	11	7	s.	B. F. Locke
Kansas City	Jackson	963	32	39.4	− 1.4	78	2	0	18	34	3.35	+0.53	1.55	2.7	11	13	7	11	nw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	34	36.1	− 4.3	78	2	− 2	19	46	3.23	+1.00	0.78	5.1	8	15	2	14	se.	Linn Terry
Lexington	Lafayette	688	39	40.8	− 2.1	83	2	1	19	54	3.93	+1.56	1.60	1.7	8	16	2	13	sw	Edwin G. Loomis
Liberty	Clay	859	31	41.8	− 0.3	81	2	− 1	19	54	2.61	+0.06	0.81	0.8	8	14	9	8	nw.	James H. Harris
Maryville	Nodaway	1,169	27	36.7	+ 0.4	77	2	− 6	19	46	2.40	+0.51	0.74	12.0	9	15	1	15	n.	J. R. Brink
Oregon	Holt	1,048	66	36.9	− 2.0	75	2	− 4	18	54	3.01	+0.98	1.03	13.0	6	15	6	10	nw.	Tom Curry
St. Joseph	Buchanan	967	49	37.4	− 5.3	76	2	− 2	18	39	2.63	+0.62	1.06	5.0	11	17	3	11	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	28	35.0	− 3.8	78	2	− 6	18	47	2.48	+0.76	0.61	17.2	7	11	9	11	sw.	Albert Volker
Trenton	Grundy	822	26	36.9	− 3.3	75	2	− 2	19	38	3.81	+1.57	0.83	3.5	11	15	7	9	n.	W. H. Estes
Section means and	extremes	.....	..	37.5	− 2.6	83	2	−11	19	58	2.93	+0.70	1.60	6.0	8	15	5	11	sw.	
State means and	extremes	.....	..	40.4	− 3.1	83	2	−11	19	66	4.12	+1.00	2.84	2.3	8	14	6	11	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing: for example, [b] represents two days, etc.

† Also on other dates. †† Received too late to be included in means and summaries ‡‡ Post-office addresses of these stations are as follows: of Dean, Anderson; of Gano, Salem, R. F. D., No. 5.

Daily Precipitation for March, 1923.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	.03			.45		.28	.03			.08		1.88	.10			.87			T.			.46	.05	.02								4.25
Brunswick‖	Grand				.67		.27				.25		1.73	.08		.06	.80			.03			.09										3.98
Clifton Hill	Chariton			.24	.14		.23			.32		1.53		.06		.75	.03			.02				.02									3.34
Columbia***	Missouri			.44		.13	.28		T.	.09		1.40	.05	T.	T	1.04			.01			T.	.15	.02									3.61
Downing	Mississippi			.30	.15		.03			.08		.65	.85	.12	.14	1.05	.08		.05				.36										3.86
Fayette‖	Missouri			.45		.33						1.92	.17		.39	.40							.16		.08								3.90
Fulton	do			.31	.22		.52			.04		1 95	.25	.05		.73	.06						.01		.05								4.19
Gorin	Mississippi			.40			.08			.20		1.50		.22	.36	.80																	3.56
Hannibal***	do			.35		.02	.30	T.		.20		2.23	.07	.06	T.	.79	.02		.02				.18							T			4.24
Hermann‖	Missouri				.45		.45	.11	T.		.09		1.65	.07			.90			T.													3.72
Jefferson City‖	do	.04			.40		.45	.10			.05		1.45				.87			.01													3.37
Kirksville	Mississippi			.72							2.03			.33		1.15			T.				.35										4.58
Louisiana	do			.01	.30		.55			.55	2.50			.05		.55	.06			1.00			.12										5.69
Macon‖	Chariton				.32		.16				.41		1.26	.14	.07	.15	.79		T.	.04			.03	.31	T.						.06		3.74
Mexico‖	Mississippi			.03	.46		.46	.10			.11		1.50	.03	.04		.95			.02				.25	.01								3.96
Pacific‖	Meramec	.02			.43		.49	.16	T.		.12		1.40			T	1.41						.07										4.10
Palmyra‖	Mississippi				.42		.29				.12		1.92	.15	T.	.08	.73																3.71
St. Catharine	Grand			.32	.18		.12			.17		.70	.38	.15		1.05	.10		.05				.23										3.45
St Charles	Missouri			.42		T.	.48			.07		.73	T	T.		1.34	T.		T.				T.										3.04
St. Louis (1)***	Mississippi			.31		.48	.22	T.	.01	.08	.06	1.63	01	T.		1.42	.01		T.			.03	T.										4.26
St. Louis (2)	do			.40		.47	.21	T.	.01	.05	.06	1.66		.01		1.61			T.			.04	.01										4.53
Shelbina	do			.40			.20						2.10			.70																	3.40
Steffenville	do			.60	75		.25	T.		.40	T.	1.00	.75	.10		.75	.10		T.	T.			.25										4.65
Union‖	Meramec	.02			.50		.52	.13			.06		1.66			.03	1.28						.05										4.25
Unionville	Chariton			.30			.20			.15		.65	.85	.45	.25	.90			.12				.35										4.22
Valley Park‖	Meramec	T.			.33		.56	.12	T.		.11		1.78		T.		1.58			T.			.05										4.53
Warrenton‖	Mississippi	T.			.37		.49	.07			.17		1.82	.02			1.05			T.			.03										4.02
Keokuk, Ia.***	do			.39		T.	.11			.49		1.09	.06	.14	.03	1.05			.02			T.	.16										3.54
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi				.03		.70	.05			.11	.50	.90	.10			1.70						.52										4.61
Caruthersville	do			T.	T.	.35	1.95			T.	.60	1.00	.60		1.65	T.						.38	.40	.05									6.98
Doniphan	Black			.10		.15	1.15			.02	.25	2.50				2.50	.30					.25	.70										7.92
Jackson	Mississippi			.09			.92				.10	.99	.57	.03		2.22	.27					.10	.87										6.16
Marble Hill	do			.25			.89				.28	1.22	1.08			2.43	.35					.20	1.20										7.90
New Madrid‖	do				.02		1.30	.05			.12	2.05	1.05	.05			1.15						.65	.01									6.45
Parma	St. Francis					1.38					1.42	2.84	.44			.96	.45					.28	.42										8.19
Patton (near)	Mississippi			.90			.70					.95	.75			2.00	.20					.82											6.32
Poplar Bluff	Black			.04		.02	1.37			.03	.28	2.84	.32	T.		2.20	.26					.20	.74										8.30
Vanduser	Mississippi						1.43				.33	1.94	.35			1.20	.51					.18	.52										6.46
Cairo, Ill.***	do			.01		.77	.22			.10	.17	1.96	T.	T.		1.28				T.		.33	.16										5.00
Ozark Plateau.																																	
Arcadia‖	St. Francis				.74		.47	.10			T.	.05	1.94	T.			2.02		T.														5.32
Birchtree	Black			.60		.28	.52				.21	1.60				2.25							.20										5.66
Bolivar	Osage					.09	.35			T.		.90	.54			.72	.04		T.				.03										2.67
Dean	Neosho			.45		.32	.11	.13			.06	2.26	T.			.75																	4.08
Eldon	Missouri			.06		.22		.45		.06		.95				.69			T.														2 43
Farmington	St. Francis			.53			.53			T.	.03	1.18	.42	T.		1.75	.06					T											4.62
Gano	Meramec			.45		T.	.80			T.	.15	1.15	.25			1.38	.05		T.														4.23
Goodland	Black			.72			.60					1.10	.70			1.75							.12										4.87
Greenville	St. Francis			.23		.07	.90			T.	.19	1.60	.17	T.		2.13	.08					.09											6.07
Hollister	White					.40					1.80	1.00				1.00																	4.20
Houston	Gasconade					.34	.20			T.	T.	1.54				1.32							.61										3.40
Jerome‖	do				.41		.40	.15			.12	.10	1.10	T.			1.20																3.48
Koshkonong	Black			.23		.37	1.01				.26	1.28	.12			2.00							.09										5.36
Lebanon‖	Osage				.45		.33	.05			.05	.55	.46	.02			T.			T.													1.91
Lockwood	do			.53		.25	.30				T.	1.33				.66			T.														3.07
Mountain Grove‖	White				41		.55	T.			.03	1.61	.75	.03			1.20						.03	T									4.61
Neosho	Neosho			.50		.23				T.	.27	1.50	T.		T.	.49			T.														2.99
Rolla	Meramec			.50		.43	.18			T.	T.	1.51	T.	T.		1.45			T.				T.										4.07
Seligman	Neosho			.94		T.	.20				.29	.59		T.		1.07	T.		T.				T.										3.09
Seymour	White			.48		.23	.18			T.	T.	1.44	T.	.05		1.05	T.		T.	T.													3.43
Springfield***	do			.53	T.	.23	.04			T.	.06	.83	T			.71			T.				T.										2.40
Steelville‖	Meramec				.49		.50	.12					1.36				1.26																3.73
Tuscumbia‖	Osage				.43		.50	.07			.03		1.32	T.			1.08			T.													3.43
Southwest Plain.																																	
Amoret	Osage			.32		.04	.22			T.		1.65	.20			.90	.72		T.			T.	.20										4.25
Appleton City	do			.48		.09	.20			.01	T.	2.10	.09	T.		1 15	.05		.01				.05	T.									4.23
Clinton	do			.45			.37					1.95	.15			.95	2.00			.02													5.89
Harrisonville‖	do				.47		.09						1.20	.05		.31	.50	.28					27										3.17
Lamar‖	Neosho			.40			45				.07	.20	1.50			T.	.78						T	.02									3.42
Lamonte	Missouri			.44		.04	.32					2.25	.35	.05		.80			.04				.20										4.49
Marshall	do			.35			.43			.07	1.50					.95	.10						.28	.04									3.72
Nevada	Osage			.55		.25	.15					2.67				1.30			T.														4.32
Osceola‖	do				.70		.40					.48	1.46			.84	.16						.04										4.08
Warrensburg	Missouri			.58		.26				.25		.17	.15		.08	1.00							.04										2.53
Warsaw	Osage			.80		.15	.30			T.		1.75	.10			1.20	.20		T.	T.													4.50
Waverly‖	Missouri	.07			.74		.24	T.			.18		1.68	.10	T.	T.	1.12			02			.10	.13									4.38
Northwest Plateau.																																	
Avalon	Grand		.20	.40						.35		1.60					.20	1.00					.60										4.35
Bethany	do			.56	.02		.05			.02		1.12	.06	.09	T.	.77			.14				.43										3.26
Chillicothe‖	do				.78		T.				.21		1.06	.18		50	.40			.15											T		3.28
Conception	Missouri			.71		T.	T.					.18	.16			.45				06			.26	T.									1.82
Edgerton	do			.30			.11					.79	.12		01				.01				.23								T.		1.57
Grant City	Grand			.30	.20							.08	.90	.10	.04				.60				.02										2.24
Kansas City***	Missouri			.51		.04	.15			.01		1.46	.12	.02	.03	.77			.05			T.	.19	T.									3.35
Kidder‖	Grand				.49					.20			.78	.10		.68	.35			.39			.24										3.23
Lexington	Missouri				.33		.29				.08		1.60	.36		.80	.27		T.				.20										3.93
Liberty	do					.11				.08		.76	.54	.04		.81			04				.23										2.61
Maryville	do			.42	10							.10	.74	.10		.47			.30				.16	.01									2.40
Oregon	do			.90		T.		T.					1.03	.08		.50			.15				.35	T.									3.01
St. Joseph***	do			.39		.05	.01			.03		.85	.31	.03	.07	.51			.06			T.	.32	T.									2.63
Tarkio	do			.61	.04							T.	.39	.10		.50		T.	.60				24	T.									2.48
Trenton	Grand			.34	.07	.09		T.		.10		.76	.80	.20	T.	.83	.07		.06				.49										3.81

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. 1 Separate dates of fall not recorded.

Daily Temperatures for March, 1923.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	77	78	63	39	41	42	45	51	57	53	40	45	41	45	48	35	58	31	34	67	59	42	50	67	60	48	62	46	74	39	38	50.8
	Minimum	27	31	41	26	21	22	19	24	29	31	32	33	33	21	31	12	13	15	1	1	33	38	22	24	29	24	25	26	30	29	4	24.1
Columbia	Maximum	69	73	62	41	43	45	45	58	57	48	40	44	38	48	53	34	57	46	27	61	58	52	48	62	64	45	62	43	69	42	37	50.7
	Minimum	30	52	41	29	26	29	26	32	40	32	36	34	30	29	24	15	42	5	2	27	38	30	26	32	28	24	33	30	33	19	15	28.4
Fayette	Maximum	66	70	58	35	38	43	42	55	52	45	34	38	33	40	43	29	54	40	24	56	53	42	44	58	59	44	59	44	68	40	31	46.4
	Minimum	23	45	35	24	18	24	20	17	30	28	28	29	27	25	15	8	25	−2	−4	24	32	22	19	25	24	20	28	24	28	14	10	22.1
Hannibal	Maximum	65	71	62	44	41	43	38	53	55	48	39	44	38	40	48	29	55	43	29	58	58	48	45	56	61	42	56	36	70	40	32	48.0
	Minimum	28	45	44	27	24	32	28	30	36	31	32	34	30	30	25	12	29	3	0	29	40	28	25	33	27	22	34	27	31	19	16	27.5
Jefferson City §§	Maximum	71	76	63	38	48	43	50	60	60	50	42	45	52	55	52	40	56	32	35	54	60	57	50	62	69	48	61	65	72	42	40	53.2
	Minimum	29	34	56	30	26	30	25	29	37	33	35	35	33	28	38	16	19	29	1	6	35	40	24	29	38	25	26	32	34	33	15	29.0
Kirksville	Maximum	66	74	72	59	42	43	38	53	52	51	45	40	38	33	41	28	53	49	23	53	59	49	42	56	52	44	55	40	68	52	32	48.5
	Minimum	27	29	30	21	18	29	24	23	27	28	30	31	25	27	26	8	24	3	−5	19	22	19	20	29	27	19	33	23	26	23	11	22.5
Louisiana	Maximum	56	70	73	70	46	44	42	48	60	58	50	50	45	42	38	45	53	54	..	54	56	55	48	55	65	67	60	58	64	62	50	[a]54.6
	Minimum	35	48	42	31	26	33	27	32	38	36	30	30	28	28	27	15	26	25	..	20	36	38	25	33	43	25	32	28	30	28	15	[a]30.3
Macon §§	Maximum	67	74	60	37	40	45	43	56	55	49	37	43	33	40	48	37	57	13	35	58	57	39	47	59	60	46	60	45	73	37	36	47.9
	Minimum	26	34	41	24	20	24	24	24	30	28	29	31	30	27	30	8	9	10	−3	1	33	36	19	23	29	19	21	25	26	26	12	23.1
Mexico §§	Maximum	62	72	60	43	44	43	45	57	57	47	40	43	35	49	51	38	57	26	34	60	60	52	49	61	68	46	62	45	71	40	35	50.1
	Minimum	29	34	47	27	22	24	25	30	32	30	31	33	33	28	30	12	13	24	−2	−2	32	42	23	27	34	20	21	26	29	29	13	25.7
St. Catharine	Maximum	67	75	60	57	40	44	40	54	54	48	44	41	39	38	45	28	52	50	24	52	57	59	45	55	52	43	58	51	68	56	38	49.5
	Minimum	24	45	41	23	19	31	23	25	43	28	32	32	27	28	27	9	25	3	−3	23	36	30	22	28	34	19	29	26	29	24	12	25.6
St. Louis (1)	Maximum	68	77	64	63	45	43	46	53	65	45	54	50	43	47	50	34	53	54	27	55	52	62	48	57	70	44	61	42	68	44	33	52.2
	Minimum	32	50	54	34	30	34	30	32	40	34	37	39	33	32	29	19	28	6	4	27	36	33	28	38	31	27	34	32	30	21	17	30.7
Unionville	Maximum	68	75	68	60	40	42	36	55	51	50	45	40	37	36	35	30	52	48	24	56	54	50	48	56	50	45	52	42	60	50	33	48.0
	Minimum	26	42	36	18	16	26	22	20	40	23	30	30	20	25	25	7	24	3	−7	20	32	25	18	26	26	20	30	22	26	22	10	22.7
Warrenton §§	Maximum	69	77	63	39	46	41	47	56	61	48	44	40	36	51	49	35	55	36	32	59	56	57	48	59	69	45	61	44	69	40	35	50.5
	Minimum	28	30	47	31	25	26	25	27	34	31	33	36	34	30	31	14	18	32	0	2	32	39	25	27	35	24	24	28	29	32	14	27.2
Southeast Lowlands.																																	
Caruthersville	Maximum	64	76	76	65	52	50	60	71	64	53	70	72	67	67	57	60	61	60	37	55	55	77	77	72	72	60	63	63	74	55	49	63.0
	Minimum	32	44	50	52	40	39	30	37	43	39	43	45	39	45	41	31	30	33	12	25	37	37	37	32	38	36	36	41	33	42	23	36.8
Doniphan	Maximum	64	73	69	65	49	44	51	62	63	50	64	65	60	57	56	56	52	59	39	50	50	71	61	62	70	67	67	60	66	64	47	59.1
	Minimum	24	42	48	44	36	36	25	32	43	37	36	43	32	26	45	26	23	25	7	25	35	41	32	28	36	33	29	39	27	39	20	32.7
Jackson	Maximum	61	73	65	66	50	47	54	59	66	49	58	64	51	55	55	58	54	53	28	50	46	71	59	67	67	66	65	66	65	62	39	57.7
	Minimum	25	40	48	41	34	35	26	34	40	37	36	43	31	26	44	27	24	22	6	22	35	41	36	27	40	29	24	34	27	38	18	31.9
Poplar Bluff	Maximum	61	67	67	65	52	47	49	57	64	53	66	66	58	55	57	57	50	58	29	46	46	68	58	57	66	66	50	45	62	62	51	56.6
	Minimum	29	45	51	47	37	41	28	35	41	38	37	44	37	28	46	26	29	36	8	25	25	42	34	31	41	31	27	29	29	30	21	33.9
Cairo, Ill.	Maximum	58	69	69	65	49	43	46	56	63	50	69	59	51	54	62	44	49	59	26	47	50	70	50	58	65	49	59	51	63	52	34	54.5
	Minimum	32	46	54	38	37	36	32	38	43	39	38	46	38	34	44	28	30	14	9	24	39	42	34	38	45	31	34	37	34	27	22	34.9
Ozark Plateau.																																	
Arcadia §§	Maximum	69	75	63	49	46	40	56	62	63	43	62	57	42	52	53	41	53	59	33	52	45	62	55	63	70	53	65	53	67	50	40	54.6
	Minimum	26	30	45	36	31	31	23	28	34	36	35	35	34	22	26	19	20	30	2	3	24	36	29	29	39	27	23	30	26	34	16	27.7
Birchtree	Maximum	62	75	69	61	43	40	52	65	60	54	56	59	51	51	53	51	52	49	32	51	52	50	47	70	73	55	64	59	67	59	48	55.8
	Minimum	24	45	47	36	33	34	22	35	43	36	35	40	30	24	41	20	34	15	3	23	34	40	29	34	43	27	28	37	27	40	12	31.3
Eldon	Maximum	70	75	64	64	46	55	55	62	59	52	41	46	40	55	40	39	62	48	56	64	51	52	60	65	69	64	61	68	57	40	66	56.3
	Minimum	27	27	54	46	25	23	22	31	45	32	35	34	25	28	29	15	20	5	0	31	40	31	23	28	43	25	25	25	21	15	25	27.6
Farmington	Maximum	70	76	70	56	48	43	50	61	62	53	54	54	46	56	52	52	52	54	31	57	45	60	51	62	68	64	63	54	68	60	42	55.9
	Minimum	30	50	54	35	31	34	26	32	38	35	37	40	34	26	38	19	23	13	3	21	33	41	29	34	39	27	29	32	27	34	16	31.0
Hollister	Maximum	73	78	79	58	60	60	62	70	64	60	58	50	52	62	62	54	60	40	40	60	52	55	60	55	75	76	66	60	72	60	69	61.1
	Minimum	30	40	40	30	32	36	22	30	42	40	35	30	30	25	42	20	20	10	5	22	34	40	38	36	38	25	25	25	28	35	20	29.8
Koshkonong	Maximum	69	76	67	62	47	43	54	65	60	54	60	62	54	59	55	55	54	55	32	52	47	70	55	65	73	68	65	60	67	60	42	58.3
	Minimum	30	43	52	38	34	38	23	33	45	36	37	42	35	27	46	23	26	16	5	23	33	41	30	38	40	31	35	39	30	42	18	33.2
Lebanon §§	Maximum	..	77	66	42	45	45	67	71	58	47	56	45	37	63	57	38	57	25	31	59	50	50	51	58	70	50	54	56	64	41	44	[a]52.7
	Minimum	..	..	52	30	28	30	23	27	42	33	34	33	28	25	33	15	17	20	−1	−1	31	34	25	25	29	24	24	30	31	34	13	[b]26.5
Mountain Grove §§	Maximum	68	74	59	39	42	40	52	64	57	39	55	55	37	54	50	38	52	45	31	52	46	55	50	59	71	..	51	63	66	48	43	[a]51.8
	Minimum	30	34	46	32	29	30	23	27	36	36	35	37	30	26	31	18	19	28	2	2	28	36	25	26	33	..	26	26	34	35	15	[a]27.8
Neosho	Maximum	71	76	73	68	42	45	59	66	67	60	57	59	52	62	59	42	58	59	34	58	58	59	51	65	70	63	62	62	67	66	47	59.3
	Minimum	27	50	57	30	32	35	25	30	48	39	39	38	31	29	33	18	29	11	5	27	40	36	24	26	42	28	23	37	38	35	20	31.7
Rolla	Maximum	71	77	71	63	46	42	53	65	60	56	52	56	52	54	53	53	55	53	30	57	51	57	49	64	71	64	65	57	68	62	42	57.1
	Minimum	29	49	54	31	29	32	24	33	44	35	35	36	31	26	47	18	18	10	0	21	35	39	25	31	45	25	29	32	32	36	15	30.6
Springfield	Maximum	67	73	65	54	40	44	52	61	61	46	56	48	39	58	54	36	56	41	29	55	48	52	48	62	66	49	62	55	64	52	40	52.7
	Minimum	33	50	54	28	31	31	28	40	46	35	36	36	29	29	26	17	29	3	2	26	36	30	27	36	34	25	32	36	36	24	16	30.4
Southwest Plain.																																	
Amoret	Maximum	72	76	68	55	42	47	53	63	64	50	42	..	..	..	..	42	56	47	30	57	53	48	53	62	63	48	67	57	70	57	40	[d]54.9
	Minimum	30	46	52	22	22	30	25	27	47	31	32	..	..	..	..	11	32	0	1	26	35	25	22	28	32	27	29	29	34	26	15	[d]27.4
Appleton City	Maximum	69	74	66	66	43	47	52	63	60	50	45	45	41	54	53	37	56	51	28	56	55	50	52	62	66	47	69	59	68	63	40	54.4
	Minimum	30	50	54	28	27	32	27	31	49	34	38	34	30	30	29	15	32	6	3	27	37	32	25	30	42	27	29	32	37	33	18	30.6
Clinton	Maximum	58	69	65	65	40	48	54	59	59	51	47	42	42	55	55	35	52	52	29	52	59	59	56	65	71	50	70	59	72	57	42	54.5
	Minimum	40	51	55	28	28	32	26	32	50	34	37	35	32	30	30	16	32	8	3	27	46	34	25	30	41	28	30	50	37	24	28	32.2
Harrisonville §§	Maximum	72	79	65	40	40	48	52	62	61	48	37	44	38	53	47	38	56	10	33	57	52	35	53	63	62	49	67	49	71	45	44	50.6
	Minimum	30	33	48	25	23	24	25	27	30	32	34	33	32	29	32	12	13	8	1	3	32	33	22	25	35	25	26	32	34	31	16	26.0
Lamar §§	Maximum	66	70	70	37	..	45	50	55	..	51	48	..	..	52	52	..	57	11	34	40	58	46	52	64	70	46	65	58	66	46	45	[e]54.2
	Minimum	26	40	55	27	26	32	25	28	44	34	36	35	28	28	..	15	30	11	2	24	31	35	23	28	32	27	27	29	37	38	19	[a]29.1
Lamonte	Maximum	71	77	63	47	43	46	51	66	61	54	40	46	37	51	52	38	59	43	30	60	58	47	53	64	64	49	65	49	72	51	41	53.2
	Minimum	26	49	46	26	23	30	23	29	45	31	33	33	31	26	26	13	30	4	0	26	37	29	22	28	28	25	31	28	32	24	15	27.4
Marshall	Maximum	69	74	70	60	41	46	59	59	60	50	43	44	..	..	49	33	57	46	27	57	57	50	49	60	63	46	64	53	72	64	36	[b]53.7
	Minimum	39	47	42	26	21	21	30	42	43	37	30	35	..	..	29	23	29	6	1	24	25	32	22	28	37	24	31	27	29	27	13	[b]28.3
Nevada	Maximum	69	75	69	67	44	48	54	64	60	63	43	48	45	59	53	38	58	58	30	59	55	52	53	64	69	47	68	61	68	56	43	56.1
	Minimum	31	58	58	27	27	30	28	31	34	35	39	38	31	31	27	16	35	8	4	28	38	32	24	29	42	27	30	34	42	32	18	31.3
Warrensburg	Maximum	68	75	65	37	42	46	46	60	61	..	42	41	54	50	..	37	50	11	56	58	50	37	50	..	63	48	65	54	72	63	42	[c]51.5
	Minimum	49	50	27	24	27	27	30	32	33	..	34	33	35	35	14	18	7	4	6	36	35	25	29	..	40	27	32	28	36	32	16	[b]28.3
Warsaw	Maximum	70	74	69	67	52	47	55	64	60	52	48	46	45	57	56	37	59	55	30	59	55	52	52	63	67	48	66	58	69	66	42	56.1
	Minimum	24	52	55	30	25	32	24	33	50	35	36	36	32	27	31	15	31	8	2	27	40	35	21	28	47	27	26	32	36	32	16	30.5
Northwest Plateau.																																	
Chillicothe §§	Maximum	72	78	62	35	35	45	41	68	56	38	50	41	32	41	43	36	54	8	33	57	57	34	50	60	52	47	57	44	71	35	38	47.4
	Minimum	28	32	41	22	20	23	22	24	26	28	30	30	27	26	30	12	12	8	−1	−1	32	31	21	26	32	23	24	26	29	27	13	23.4
Grant City	Maximum	74	80	78	56	40	45	40	58	63	52	48	47	39	37	39	34	55	53	26	55	54	55	52	60	57	50	57	50	69	60	33	52.1
	Minimum	28	44	36	17	19	27	23	23	43	24	32	32	25	26	25	8	30	−3	−11	25	34	25	14	27	27	24	30	25	30	21	14	24.0
Kansas City	Maximum	71	78	64	33	39	44	51	62	61	51	42	40	36	52	49	39	56	28	30	57	57	42	54	62	54	48	61	47	72	43	36	50.4
	Minimum	40	51	31	23	22	32	30	30	36	32	32	32	31	31	23	15	28	0	3	30	40	30	26	38	27	25	38	33	39	20	17	28.5
Kidder §§	Maximum	75	78	59	57	48	45	41	60	58	52	52	38	33	41	41	35	54	6	34	41	63	59	60	60	50	49	45	45	73	36	36	49.2
	Minimum	29	36	36	20	21	20	19	25	26	27	29	30	27	27	30	12	13	5	−2	0	22	31	31	26	31	25	25	21	29	27	15	23.0
Lexington §§	Maximum	50	83	78	64	55	41	52	51	68	60	57	44	38	43	44	49	36	57	52	30	57	57	30	52	61	61	49	63	47	74	69	53.9
	Minimum	32	40	46	24	20	32	23	27	45	32	33	32	31	29	29	12	31	9	1	27	29	27	22	25	38	26	31	28	32	28	15	27.6
Maryville	Maximum	74	77	65	65	36	41	40	59	60	53	43	39	36	35	39	35	54	28	29	55	55	43	51	60	54	50	55	45	67	45	28	48.9
	Minimum	28	48	37	16	20	27	23	25	37	24	32	32	25	26	24	9	28	−3	−6	29	35	26	15	27	27	23	32	26	32	21	14	24.5
Oregon	Maximum	71	75	69	38	37	40	40	57	56	49	40	37	34	36	36	36	35	50	31	54	55	43	45	59	53	47	55	45	66	50	37	47.6
	Minimum	32	48	38	17	22	27	26	26	38	29	35	31	27	27	25	11	31	−4	−3	31	36	25	18	29	28	25	35	28	37	22	15	26.2
St. Joseph	Maximum	74	76	62	31	38	42	45	62	59	51	41	36	33	40	41	38	57	18	34	58	56	36	53	62	53	49	59	48	71	40	36	48.4
	Minimum	35	51	29	19	22	30	27	27	35	30	32	31	28	30	21	13	18	−2	0	34	36	25	22	31	28	26	35	30	38	19	16	26.3
Trenton	Maximum	68	75	65	54	39	42	40	52	53	48	40	42	36	37	41	32	52	28	26	52	55	47	48	55	48	45	53	41	64	47	35	47.1
	Minimum	30	42	41	24	22	30	25	26	40	30	32	32	30	30	29	11	28	2	−2	26	34	28	22	30	28	25	35	28	30	22	18	26.7

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVII. COLUMBIA, MO., APRIL, 1923. No. 4.

GENERAL SUMMARY.

The average weather elements of April, 1923, in Missouri, did not vary much from the usual. The rather cold weather at the end of March overlapped the first few days of April, but there was a reaction to more seasonable weather on the 6th. During most of the month temperatures fluctuated above and below normal for two, three and four days at a time. There were no freezing temperatures, as a rule, after the 17th. During the last ten days afternoon temperatures ranged above 80° on a few dates.

Showers were frequent, but as a rule light to moderate. Soil moisture was sufficient for present needs. There were no damaging hail, winds, or floods.

The month's weather was favorable for farm work. Wheat and grasses did well. There being no very warm weather at any time, fruits of all kinds made satisfactory progress. Some peach buds escaped the freeze of March 19th.

TEMPERATURE.

The monthly mean temperature for the State, 70 stations reporting, was 54.2°. The departure from the normal for 67 stations having 10 or more years' record was minus 0.6°. The northeastern plain was cooler than the other divisions. Cool spells prevailed from the 1st to the 5th, 8th to the 10th, and 14th to the 18th. The 1st, 4th, and 8th were the coldest days. Afternoon temperatures were above 70° three days during the first decade, three the second decade, and six during the third; they reached 80° or higher on the 19th, 23d, and 26th. There was an average of five nights with 32° or lower.

PRECIPITATION.

The average precipitation for the State, 88 stations reporting, was 3.12 inches. The departure from the normal for 82 stations having 10 or more years' record was minus 0.74 inch. The deficiency was somewhat greater in the northeast plain than in the other divisions, and there was a small excess in the southeastern lowlands. On the whole, the precipitation was uniformly distributed and sufficient for present needs. Light showers fell almost daily in some parts of the State. The more general and heavier rains occurring from the 2d to the 5th, 13th-14th, and 20th to the 24th. The heaviest monthly amount was 6.08 inches, at Poplar Bluff. The heaviest 24-hour amount fell at Columbia, on the 23rd-24th.

A heavy snow fell on the 5th, extending from Columbia northeast to Louisiana and Hannibal. The heaviest amount, 6.5 inches, fell at Palmyra, Marion County. Local falls of from 2 to 3 inches also fell at a few of the central-western stations. The snow soon melted.

WIND.

The prevailing winds were from the south. The total number of miles, 8 stations equipped with anemometers reporting, was 7,856, 10.9 miles an hour and about 10 per cent above the average. Fresh to strong winds prevailed on the 7th, and 21st.

SUNSHINE AND CLOUDINESS.

There were 14 clear days. The average number of hours of sunshine, 6 well-placed stations equipped with sunshine recorders reporting, was 234. This is about 59 per cent of the possible and about normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense.—On the 17th.

Frosts, heavy.—6th, 9th, 10th, 17th, and 18th.

Frosts, killing.—1st, 5th, 8th, 16th, and 17th.

Hail.—3d, 4th, 13th, 22d, 23d, and 24th.

Halos, solar.—2d, 7th, 12th, 16th, 17th, 22d, 25th, 26th, 27th, and 28th.

Halos, lunar.—1st, 25th, 27th, and 30th.

Thunderstorms.—2d, 3d, 4th, 5th, 7th, 13th, 20th, 21st, 22d, 23d, 24th, and 27th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
								Max. velocity.		
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Miles per hour.	Direction.	Date.
Columbia	29.96	74	52	237	60	7,143	9.9	35	sw.	21
Hannibal	29.96	69	..	...	..	7,703	10.7	38	sw.	21
Kansas City	29.96	69	50	270	68	8,851	12.3	39	w.	21
St. Joseph	29.94	71	53	240	60	7,467	10.4	38	nw.	21
St. Louis	29.97	71	54	274	69	10,231	14.2	50	s.	7
Springfield	29.97	74	57	208	53	7,996	11.1	40	sw.	7
Cairo, Ill	29.99	70	52	...	..	6,797	9.4	38	sw.	21
Keokuk, Iowa	29.97	67	47	212	53	6,656	9.2	40	sw.	21

COMPARATIVE DATA FOR APRIL.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	57 9	+2.8	91	20	1.83	-1.89	....	....	5	....	....	....
1889	55.7	+0.6	90	26	2.52	-1.20	....	....	8	....	....	....
1890	56.2	+1.1	93	24	3.17	-0.55	....	....	8	....	....	....
1891	56.8	+1.7	93	15	3.90	+0.18	....	....	9	....	....	....
1892	53.1	-2.0	88	26	5.66	+1.94	4.25	....	11	9	8	13
1893	53.9	-1.2	95	19	7.84	+4.12	5.50	....	12	8	9	13
1894	56.1	+1.0	93	20	3.17	-0.55	2.49	T.	8	12	10	8
1895	57.9	+2.8	100	24	1.95	-1.77	2.88	T.	7	14	8	8
1896	61.9	+6.8	92	17	3.51	+0.21	3.00	0.0	9	11	12	7
1897	54 4	-0.7	88	21	4.55	+0.83	3.50	T.	10	10	11	9
1898	52.5	-2.6	90	14	3.65	-0.07	3.25	T.	10	12	9	9
1899	54.0	-1.1	96	6	3.70	-0.02	3.76	3.8	8	12	9	9
1900	56.7	+1.6	89	21	3.36	-0.36	3 82	0.7	9	11	10	9
1901	53.3	-1.8	94	24	2.85	-0.87	2.23	1.8	8	14	7	9
1902	53.9	-1.2	95	19	2.66	-1.06	4.35	T.	11	13	11	6
1903	55.9	+0.8	91	26	3.54	-0.18	4.06	1.2	9	11	10	9
1904	49 0	-6.1	84	19	5.75	+2.03	6.10	2.7	9	15	6	9
1905	54.9	-0.2	92	20	3.19	-0.53	4.00	0.3	6	14	8	8
1906	59.5	+4.1	93	22	2.24	-1.41	2.45	0.0	8	17	7	6
1907	48.7	-6.4	89	16	3.43	-0.29	2.75	T.	8	11	8	11
1908	56.6	+1.5	90	18	5.30	+1.58	3.30	T.	11	11	8	11
1909	54.8	-0.3	93	19	4.35	+0.63	3.80	T.	8	13	9	8
1910	54.8	-0.3	95	21	3.51	-0.21	3.50	0.9	11	12	7	11
1911	53.5	-1.6	89	20	4.99	+1 27	4.27	T.	10	12	8	10
1912	56.0	+0.9	97	24	5.98	+2.26	4.50	0.7	10	13	7	10
1913	56.2	+1.2	94	25	3.33	-0.45	3.90	T.	7	16	5	9
1914	55.2	+0.1	91	18	3.14	-0.74	3.00	T.	8	12	7	11
1915	61.9	+6.5	96	18	2.03	-1.82	2.08	T.	7	16	8	6
1916	53.5	-1.8	93	21	3.23	-0.69	2.35	1.9	10	11	8	11
1917	53.2	-2.3	89	19	5.97	+2.02	4.80	1.2	12	12	6	12
1918	50.8	-4.4	93	19	5.10	+1 24	3.50	0.9	11	12	6	12
1919	55.3	+0.3	94	20	3.01	-0.64	3.25	T.	9	12	7	11
1920	50.2	-4.7	89	4	3.95	+0.15	2.98	4.8	11	11	7	12
1921	56.0	+0.9	91	19	5.37	+1.52	4.20	1.1	10	13	7	10
1922	57.3	+1.9	91	24	6.21	+2.42	5.49	T.	11	13	6	11
1923	54.2	-0.6	91	16	3.12	-0.74	2.50	0.4	8	14	8	8

Climatological Data for April, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of days. With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Northeast Plain.																				
Brunswick	Chariton	652	42	53.4	− 1.0	86	19	17	1	47	1.68	−1.80	0.45	0	8	14	0	16	ne.	O. K. Benecke
Clifton Hill	Randolph	731	22	53.2	− 0.4	79	29†	26	1	40	2.13	−2.23	0.70	0	9	11	11	8	......	Dr. A. J. Bradsher
Columbia	Boone	748	31	53.3	− 1.0	79	30	27	8	40	4.21	+0.51	2.50	1.7	11	10	7	13	s.	U. S. Weather Bureau
Downing	Schuyler	878	11	52.8	......	83	30	22	8	36	1.93	−1.82	1.02	T.	7	13	5	12	n.	E. E. St. Clair
Fayette	Howard	661	38	49.8	− 5.1	75	19	22	8	40	4.58	+1.04	1.90	0	5	..	..	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	29	54.3	− 0.1	80	30	27	1†	39	3.22	−1.11	1.10	T.	8	11	14	5	w.	Westminster College
Gorin	Scotland	700	34	....	......	..	..	..	..	..	1.12	−2.88	0.83	0	4	10	2	18	ne	I. S. McCollom
Hannibal	Marion	534	37	52.6	− 0.8	80	30	29	8	39	2.38	−0.87	0.88	5.0	10	8	11	11	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	54.4	− 1.7	80	30	20	1	40	4.52	+0.98	1.02	0	8	17	5	8	s	Miss Emma Swift
Kirksville	Adair	969	39	50 8	− 1.1	78	29	22	8	36	1.32	−2.32	0.43	0	5	12	5	13	ne.	Prof. J. S. Stokes
Louisiana	Pike	469	40	53.2	− 0.5	80	30	22	8	50	3.77	+0.39	1.10	4.0	8	17	6	7	w.	J. T. Farrell
Macon	Macon	875	28	51.3	− 2.6	83	30	18	1	43	2.10	−1.09	0.72	T.	13	14	9	7	se.	W. C. Brown
Mexico	Audrain	800	43	51.5	− 2.8	81	30	17	1	41	2.27	−1.40	0.98	1.5	7	18	2	10	se.	Mrs. Abbie Snoddy
Palmyra	Marion	652	22	51.4	− 3.2	81	30	16	1	44	2.41	−1.21	0.65	6.5	8	13	5	12	sw.	W. B. Markell
St. Catharine	Linn	800	12	51.7	+ 0.3	79	30	22	8	43	3.02	−0.51	2.01	T.	12	10	10	10	s.	L. D. Baker
St. Charles	St. Charles	456	43	54.6	− 1.0	85	30	25	1	39	2.99	−0.69	1.76	0	6	9	10	11	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	55.0	− 0.8	83	30	26	1	44	3.20	−0.32	1.94	T.	11	7	19	4	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	54.5	− 0.7	81	30	27	1	43	3.57	−0.44	2.31	0	10	14	13	3	s.	St. Louis University
Shelbina	Shelby	779	28	....	......	..	..	..	..	..	1.90	−1.63	0.90	0	5	..	..	..	.....	S. G. Parsons
Steffenville	Lewis	650	28	52.5	− 0.7	82	30	26	17	40	1.32	−2.29	0.80	T.	6	12	12	6	s.	Frank Hall
Unionville	Putnam	1,062	28	51.2	+ 0.1	80	30	20	8	38	1.25	−2.56	0.65	T.	4	10	6	14	n.	Geo. W. Davis
Warrenton	Warren	816	31	53.2	− 1.6	80	30	17	1	37	4.58	+0.27	1.12	T.	7	17	9	4	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	49	51.4	− 0.9	82	30	25	8	41	1.16	−2.19	0.59	T.	7	8	6	16	n.	U. S. Weather Bureau
Section means and	extremes	.....	..	52.7	− 1.3	86	19	16	1	50	2.64	−1.05	2.50	0.8	8	12	8	10	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	30	62.2	+ 2.0	91	26	30	1	41	3.84	−0.28	1.40	0	7	19	7	4	e.	H. E. Averill
Doniphan	Ripley	344	17	58.2	+ 0.2	84	22	24	1	42	4.90	−0.47	1.32	0	11	17	6	7	s.	W.W. Martin
Jackson	Cape Girardeau	428	31	56.6	− 0.3	86	23	22	1	40	4.12	−0 35	1.05	0	10	7	16	7	s.	John G. Putz
Marble Hill	Bollinger	470	27	56.6	− 0.1	85	23	19	1	45	5.77	+1.33	1.63	0	9	16	7	7	n.	R.A, DeWitt
Parma	New Madrid	281	..	....	......	..	..	..	..	..	4.15	......	0.66	0	9	..	..	..	......	J.E. Pearce
Patton (near)	Bollinger	500	11	....	......	..	..	..	..	..	2.95	−0.53	1.25	0	9	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	329	17	57.4	− 1.8	87	23	25	1	39	6.08	+1.61	1.91	0	11	19	6	5	se.	Rev. J. A. Gallaher.
Vanduser	Scott	304	..	....	......	..	..	..	..	..	4.69	+0.43	0.96	0	11	..	..	..	.....	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	57.8	− 0.3	83	22	28	1	30	4.02	+0.45	1.52	0	13	9	9	12	s.	U. S. Weather Bureau
Section means and	extremes	....	..	58.1	− 0.1	91	26	19	1	45	4.50	+0.27	1.91	0	10	15	7	8	s.	
Ozark Plateau.																				
Arcadia	Iron	926	43	54.0	− 1.3	85	22	19	1	43	3.34	−1.28	1.11	0	9	10	9	11	sw.	Arcadia College
Birchtree	Shannon	1,000	28	56.6	− 0.2	87	23	26	1	39	3.26	−1.46	0.80	0	10	20	3	7	sw.	V. H. Kirkendall
Bolivar	Polk	1,071	32	53.0	− 3.1	76	22†	27	8	33	2.61	−1 38	0.80	0	6	19	6	5	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	22	53.1^{d}	− 4.2	80	23†	25	8	39	3.97	−0.07	1.09	0	9	18^{d}	2^{d}	6^{d}	e.	H. E. Dean
Eldon	Miller	934	22	54.2^{j}	− 1.2	80	23	28	1†	47	4.17	−0.29	1.10	0	7	3^{b}	17^{b}	8^{b}	ne.	E. H. Shepherd
Farmington	St. Francois	918	24	56.0	− 0.9	85	30	23	1	41	3.00	−0.96	1.38	0	10	16	8	6	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	54.4	− 1.2	83	22†	26	1†	39	3.83	−0.72	1.87	0	9	14	10	6	nw.	A. C. Leach
Goodland	Iron	1,000	28	53.2	− 1.4	77	30	23	9	45	2.65	−2.44	1.11	0	6	19	6	5	s.	F. M Adams
Greenville.	Wayne	381	..	56.2	......	85	23	21	1	45	3.94	......	0.97	0	12	19	8	3	s	J. J. Amen.
Hollister	Taney	735	18	56.8	− 2.9	92	23	28	17	50	3.15	−1.42	1.20	0	4	13	10	7	sw.	W. P. Chapmann
Houston ††	Texas	1,280	29	53.8	− 2.0	88	23	26	18	51	2.14	−2.30	0.65	0	7	10	12	8	sw.	Walter T. Beard
Koshkonong	Oregon	958	20	58.8	+ 1.0	86	23	27	1	38	5.17	+0.20	1.30	0	12	14	8	8	sw.	R. M. Hitt
Lebanon	Laclede	1,265	34	54.1	− 1.6	84	22	14	1	46	2.59	−1.59	0.80	0	6	17	3	10	s	Leonard E. Dickerson
Lockwood	Dade	1,078	25	55.8	− 0.2	85	22	27	8	33	4.75	+1.09	1.35	0	7	16	3	11	se.	C. S. Crow
Mountain Grove	Wright	1,463	25	54 0	− 0.2	86	23	18	1	39	4 05	−0.73	0.97	0	9	16	8	6	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	58.0	0.0	87	23	29	8	40	4.37	+0.25	0 98	0	8	18	3	9	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	37	56.4	+ 1.4	86	23	28	8	41	4.42	−0.24	1.32	0	8	19	5	6	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	15	57.6	+ 1.8	84	23	28	8	34	3.08	−0.85	0.95	0	13	13	13	4	sw	Floyd E. Fawver
Seymour	Webster	1,642	16	55.0	− 0.4	85	23	27	8	40	3.32	−0.64	0.73	T.	10	16	4	10	s.	Ira H. Hailey
Springfield	Greene	1,350	42	55.2	− 0.5	83	23	27	8	38	3.33	−0.53	0.74	0	11	15	5	10	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	55.4	− 0.8	92	23	14	1	50	3.63	−0.68	1.87	T.	9	15	7	8	sw.	
Southwest Plain.																				
Amoret	Bates	831	15	54.2	− 0.3	81	23	22	8	40	2.38	−1.62	0.76	0	10	19	5	6	ne.	Darby Fruit Farm
Appleton City	St. Clair	853	29	55.2^{e}	− 0.6	82	23	26	8	35	1.96	−2.30	0.60	0	8	13	13	4	ne.	W. G. Bigelow
Clinton	Henry	765	34	57 8	+ 2.1	84	19	26	8	42	3.53	−0.51	0.92	0	11	16	6	8	ne.	A. E. Derwent, M. D.
Harrisonville	Cass	904	46	53.6	− 0.2	81	19	18	1	47	2.33	−0.06	0.84	0	8	8	3	19	s.	John H. Patterson
Lamar	Barton	980	40	55.4	− 1.2	84	23	20	1	44	2.71	−1.44	1.00	0	7	14	5	11	s.	Joe W. Springer
Lamonte	Pettis	867	35	54.4	− 0.7	84	30	27	8	40	5.01	+1.24	1.90	3.0	10	14	9	7	se.	J. E. Wheeler
Marshall	Saline	779	32	53.6^{b}	− 0.8	81	18	23	8	38	4.30	+0.61	1.95	2.0	6	17^{b}	6^{b}	5^{b}	ne.	Dr. W. H. Black
Nevada	Vernon	862	30	57.3	+ 2.2	83	23	28	8	38	1.96	−1.83	0.88	0	6	16	5	9	s.	George A. Kaupp
Warrensburg	Johnson	878	43	55.6	− 0.5	81	30	26	8	38	3.63	+0 43	0.75	4.0	10	7^{e}	15^{e}	5^{e}	e.	S. I. Major.
Warsaw	Benton	687	26	55.8	0.0	84	23	28	8	43	3.08	−1.14	0.63	3.0	10	11	17	2	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	55.3	+ 0.1	84	19†	18	1	47	3.03	−0.77	1.95	0.9	8	14	8	8	ne.	
Northwest Plateau.																				
Avalon	Livingston	730	24	53.8	+ 0.1	79	30	27	8	32	2.35	−1.12	1.85	0	4	10	15	5	sw.	F. G. Ashbaugh
Bethany	Harrison	916	30	51.9	+ 0.7	80	30	21	8	44	2.98	−0.24	1.26	0	9	11	8	11	sw.	Owen Ross
Chillicothe	Livingston	779	13	50.7	− 3.8	80	19†	19	1	45	2.03	−2.41	0 83	0	6	15	3	12	nw.	Wm. J. Olenhouse
Conception	Nodaway	980	37	52.7	+ 0.4	80	19†	19	8	41	2.44	−0.37	0.71	0	9	9	14	7	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	9	49.8^{h}	......	72	19†	22	8	34	2.20	−1.34	0.87	0	7	18	5	7	e.	Fred L. Stiff
Grant City	Worth	1,134	30	54.2	+ 1.9	81	19	20	8	42	3.29	+0.23	1.59	0	5	12	13	5	s.	B. F. Locke
Kansas City	Jackson	963	32	54.1	− 0.2	79	30	26	8	34	1.84	−1 45	0.87	T.	13	13	9	8	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	34	51.6	− 1.3	80	19	17	1	43	1.70	−1.34	0.68	0	6	12	5	13	nw.	Linn Terry
Lexington	Lafayette	688	39	55.2	+ 1.1	80	19	26	8	36	2.52	−0.84	0 70	0	9	12	10	8	s.	Edwin G. Loomis
Liberty	Clay	859	31	54.2	− 1.3	83	30	22	6	52	1.90	−1.51	0.91	0	10	10	13	7	nw.	James H. Harris
Maryville	Nodaway	1,169	27	52.6	+ 2.0	80	19†	20	8	39	3.10	+0.19	0.87	0	6	16	2	12	n.	J. R. Brink
Oregon	Holt	1.048	66	52.6	− 0.1	80	30	21	8	35	2.57	−0.72	0.91	T	9	9	11	10	nw.	Tom Curry
St. Joseph	Buchanan	967	49	53.8	0.0	82	30	24	8	34	2.21	−0.76	0.84	T.	10	13	11	6	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	28	51.7	− 1.6	81	30	20	7	42	3.03	−0.14	1.00	0	9	10	13	7	sw.	Albert Volker
Trenton	Grundy	822	26	52.4	− 0.8	77	19	24	8	36	2.80	−0.47	1.46	0	9	12	13	5	nw.	W. H. Estes
Section means and	extremes	.....	..	52.8	− 0.2	83	30	17	1	52	2.46	−0.82	1.85	T.	8	12	10	8	nw.	
State means and	extremes	.....	..	54.2	− 0.6	92	23	14	1	52	3.12	−0.74	2.50	0.4	8	14	8	8	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for April, 1923.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri			.30		1.33		T.		.03				.02	T.						.03	.92		.33	1.43				.30				4.69
Brunswick‖	Grand			.09		.45									.03						.03	.43		.20	.18			.27					1.68
Clifton Hill	Chariton			.21		.70		.03		.02					T.						.27	.18	T.	.37	.05			.30					2.13
Columbia***	Missouri	T.	.01	.28	.89	.14		T.						.02	T.		T.				.12	.06		2.48	.03			.16	.02				4.21
Downing	Mississippi		.02					.03		.02		T.			.04						.20	1.02		.60									1.93
Fayette‖	Missouri		T		1.81									T.							.44		T.	1.90	.20			.23					4.58
Fulton	do		.02	.20		1.10								.46				T.				20		.68	.25			.31					3.22
Gorin	Mississippi									.04		T.									.23			.83				.02					1.12
Hannibal***	do		.01	.15	.31	.57		T.		.18		T.		.01	T.	T.					.10	.34		.46				.25					2.38
Hermann‖	Missouri			.28		.87								65	.29			.01				.34		.90	.75				.18				4.27
Jefferson City‖	do			.25		.78								.57	.05							.65		.65	1.02				.55				4.52
Kirksville	Mississippi									.13											.40	.32		.43				.04					1.32
Louisiana	do			.24		1.10				.05				.43								.60		.50				.15	.30				3.77
Macon ‖	Chariton	T.		.11		.25		.02		.17	.05		.06		.05						.12	.19		.72	.19				.10		.07		2.10
Mexico ‖	Mississippi			.28		.98								.10	.03							.26		.34					.28				2.27
Pacific‖	Meramec			.26	.08	70	.02							.91	.73						.26		.03	.10					.10	.03			3.22
Palmyra‖	Mississippi			.51		.65				T.	.16			.04								.18		.56	.26				.05				2.41
St. Catharine	Grand		.03	.05		.10		.02		.14		.10	T.		.07	T.					.32	.02	.15	2.01	.01			T.					3.02
St. Charles	Missouri			.41	.02	.10								1.76								.30		.40			T.	T.					2.99
St. Louis (1)***	Mississippi		.13	.08	.59	.12		T.					.19	1.76							.04	.23		.02				.03	.01				3.20
St. Louis (2)	do		.17	.08	.60	.05		T.					.27	2.04							.07	.15		.11				T.	.03				3.57
Shelbina	do		.20			.20															.40				.90		.20						1.90
Steffenville	do			.05			T.														.10	.10	.20	.80				.07					1.32
Union‖	Meramec			.20	32	.46								.80	.56							.34		.02	.04				.35	.09			3.18
Unionville	Chariton		T.			T.				T.					.10						.45	.05	T.	.65	T.								1.25
Valley Park‖	Meramec			.25	.27	.48	T		T.					.85	.76							.35		.08					.01	T.			3.05
Warrenton ‖	Mississippi			.50		.93	T.							.85	.67							.46		1.12					.05				4.58
Keokuk, Ia.***	do		.02	.05		T.		.20		.10		T.			.03	T.	T.				T.	.14	T.	.59				.03					1.16
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi			.30	.42	1.02			.40					.68	.03							.09				.09			.30	.01			3.34
Caruthersville	do			.42	T.	1.40							.55	.42				T.			T.	T.		T.	.10				.10	.85			3.84
Doniphan	Black		T.	.60	1.32								.63	.20			.15				.25	.05			.05			.90	.20	.55			4.90
Jackson	Mississippi			.68	.31	.97			.27				.20	1.05	.03							.34			.07				.20				4.12
Marble Hill	do		.80	.30	.90								.42	1.63							30			.32				.80	.30				5.77
New Madrid‖	do			.65	.90	.75			.05					1.05	.11			.10				.20			.42				1.42	.10			5.75
Parma	St. Francis			.48	.66				.90				.52	.34								.40			.16			.44	.25				4.15
Patton (near)	Mississippi			.65										.10	1.25						.10	.10		.05	.10			.45	.15				2.95
Poplar Bluff	Black			.40	1.91	.75							.72	T.			T.	.03			.25	.05			.89			.95	.10	.03			6.08
Vanduser	Mississippi			.35	.66	.96							.56	.59				.03				.51	.11		.13			.58	.21				4.69
Cairo, Ill.***	do		.07	.37	1.49			.11					.74	.61	.03			.01			.03			.01	.16			.20	.19				4.02
Ozark Plateau.																																	
Arcadia ‖	St. Francis			.26	.05	.50			.08					1.11	.07							.38	T.		.71				.18	T.			3.34
Birchtree	Black		.27	.41	.54			.10					.30	.45			.05				.24							.80	.10				3.26
Bolivar	Osage				.68									.42							.45			.14				.12	.80				2.61
Dean	Neosho		.02		.80			.06				1.09	.08	.07							.75	.42						.30	.37	.01			3.97
Eldon	Missouri				.36	.74							.42								.39			.56	1.10				.60				4.17
Farmington	St. Francis		T.	.18	.14	.63							.06	1.38		.04					T.	.29		.12	.04				.12				3.00
Gano	Meramec		T.	.42	.30	.32		T.					T.	1.87							.36	.25		.02	.14			T.	.15				3.83
Goodland	Black			.40		.40								1.11								.46		.10					.18				2.65
Greenville	St. Francis		T.	.63	.17	.63			.06				.33	.97							.20	.52		.09	.09			.09	.16				3.94
Hollister	White	.65											.40								.60			1.20				.30					3.15
Houston	Gasconade		.17	.18	.44								.15	.65							.35	.20	T		T.		T.						2.14
Jerome ‖	do			.32		.51			T.					1.16	.06							.48		.05	.37				.26	T.			3.21
Koshkonong	Black		.17	.47	1.30								.76	18			.26	.04			.35			.13				.73	.17	.61			5.17
Lebanon ‖	Osage			.32	T.	.70								.80	.13						T.	.52							.12	T			2.59
Lockwood	do		T.	.33	1.05												.68				.70	.25						.39	1.35				4.75
Mountain Grove†‖	White			.48		.63			.04					.90	.04			.08				.97		T.	.04				.87				4.05
Neosho	Neosho		T.	.15	.65			T.				.37	T.	T.			.28				.85	.37	T.	T.				.98	.72				4.37
Rolla	Meramec		.32		.76			T.					1.22	.12							.46		.14	1.32				.08	T.				4.42
Seligman	Neosho		.11		.95			.16				.16	.06	.15			.02				.47	.48		.02				.38	.10	.02			3.08
Seymour	White		.25	.37	.35			.04				T.	T.	.73			.25				.45	.33			.24			.15	.16				3.32
Springfield***	do		.13	.11	.60			.07				T.	.26	.05			.43				.46	.04		.74			T.	.44	T.				3.33
Steelville‖	Meramec			.23		.59			.08					1.11	.31							.44		.12	.28				.13	.07	.07		3.43
Tuscumbia ‖	Osage			.22		.97								.62	T.						T.	.37		.09	.15				.33				2.75
Southwest Plain.																																	
Amoret	Osage			.32	.08							.07			.01			.43			.76	.10			.22			.28	.11				2.38
Appleton City	do		T.	.28	.32	.06							T.								.60		.01	.29	.34			.06	T.				1.96
Clinton	do			.32	.45	.28	.02	.70													.02		.05	.92	.35			.10	.32				3.53
Harrisonville†‖	do			.35		.18							.02		.05							.84		.15	.22				.52				2.33
Lamar ‖	Neosho			.32		.55							T.	T.				.35				1.00	.02	.02	T.				.45				2.71
Lamonte	Missouri			.25	.85	.71									.01						.62		.04	.22	1.90			.38	.03				5.01
Marshall	do				T.	1.00				T.		T.								.80	.05	T.		1.95	.20	T.	.30						4.30
Nevada	Osage			T.	.76							.07					T.	.05			.88			.02				.18					1.96
Osceola‖	do			.24		.70																.52		.20	.26								1.92
Warrensburg	Missouri		T.	.26	.36	.46						T.			.02		T.				.70		.13	.75	.48			.46	.01				3.63
Warsaw	Osage		T.	.30	.63	.62								.10							48	.30		.06	.32			.11	.16				3.08
Waverly ‖	Missouri			.35		.84									T.						T.	.52		.80	.12				.48				3.11
Northwest Plateau.																																	
Avalon	Grand																				.35	.15	1.50	.35									2.35
Bethany	do		T.	.04	T.	.07		.07		.06		.03			.55		T.				.84	T.	.06	1.26	T.		T.	T.					2.98
Chillicothe‖	do									.08	.02	T.			.08							.61	T.	.83	.41				T.				2.03
Conception	Missouri			.05	T.	T.						.06			.65						.71	.05	.16	.64	.06		T.	.06					2.44
Edgerton	do		T.	.06								.21			.62		T.				.87		.30	.07				.07					2.20
Grant City	Grand														.10						.89	.61	.10	1.59									3.29
Kansas City***	Missouri		.30	.01	.08	.01	T	T.		T.		.05	T.	.17	.06						.86	.01	.14	.01	.03			.11					1.84
Kidder ‖	Grand					.24				.05					.38							.68		.25	.10								1.70
Lexington	Missouri			.16		.50		.03					.03		.15							.70		.39	.25				.31				2.52
Liberty	do		.05	.17		.14						.06			.29						.91	.02	.11	.08				.07					1.90
Maryville	do			.15	.05								T.		.87							.80		.50	.73								3.10
Oregon	do		.19		.08					.03		.08			.91							.72	.15	.28			T.	.13					2.57
St. Joseph***	do		.06		.20					T.		.01		.71	.13						.79	.01	.15	.09			T.	.06					2.21
Tarkio	do		.10		.10							.05			.69						.51	.15	.10	1.00	.33								3 03
Trenton	Grand	T.	.03	.08	.08					.09		.07			.12		T.				.80	T.	.07	1.46				T.					2.80

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning: amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement. † Separate dates of fall not recorded.

Daily Temperatures for April, 1923.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	68	85	54	40	61	80	68	51	63	73	60	72	65	63	45	60	63	75	86	68	67	71	77	72	71	77	62	72	80	83	..	67.7
	Minimum	17	36	14	36	33	33	39	26	30	33	39	44	45	44	36	28	29	34	41	52	49	39	50	54	45	48	54	47	47	49	..	39.0
Columbia	Maximum	61	64	52	40	53	72	73	45	59	69	68	70	60	59	45	55	57	71	79	72	63	71	75	71	67	73	65	68	76	79	..	64.4
	Minimum	30	47	39	32	32	40	33	27	34	32	52	45	47	39	34	29	33	33	51	57	47	41	57	53	48	51	54	50	47	52	..	42.2
Fayette	Maximum	60	58	49	37	53	68	66	46	58	67	67	67	58	53	39	53	58	70	75	64	59	75	77	71	77	72	58	68	72	73	..	62.3
	Minimum	25	42	37	28	28	30	28	22	26	27	45	40	40	38	30	24	27	26	42	50	42	37	50	52	44	47	48	46	47	52	..	37.3
Hannibal	Maximum	55	63	52	42	56	69	71	46	55	67	63	67	59	58	45	56	56	69	77	75	61	68	64	68	67	74	64	68	75	80	..	63.0
	Minimum	29	46	38	34	32	39	32	29	34	33	47	38	44	37	38	33	33	38	52	61	49	43	52	51	47	50	53	49	48	54	..	42.1
Jefferson City §§	Maximum	60	66	55	40	55	72	78	47	64	70	75	68	60	62	48	56	55	70	78	73	66	75	76	74	74	77	67	70	77	80	..	66.3
	Minimum	20	35	47	37	32	35	44	28	30	36	40	47	47	39	40	30	36	42	49	52	46	45	51	58	50	49	55	52	48	52	..	42.4
Kirksville	Maximum	59	60	54	43	60	71	68	49	59	61	63	67	61	56	43	59	60	72	77	70	60	64	67	67	67	72	66	70	78	72	..	63.2
	Minimum	25	44	37	32	30	37	32	22	31	32	34	34	42	35	36	29	31	36	49	52	45	38	47	50	40	48	52	40	46	50	..	38.5
Louisiana	Maximum	54	64	62	50	45	64	72	72	60	63	66	66	68	63	56	57	56	65	75	76	75	71	65	71	70	70	75	66	73	80	..	65.7
	Minimum	28	42	46	36	33	33	54	22	28	28	48	38	52	38	35	32	32	28	40	44	50	43	50	50	45	40	50	50	54	50	..	40.6
Macon §§	Maximum	61	60	52	40	59	72	72	49	60	71	59	71	53	59	44	60	60	60	79	57	59	71	75	70	70	77	62	70	78	83	..	63.8
	Minimum	18	33	45	33	32	34	45	23	30	32	38	38	40	36	35	27	30	35	45	53	48	37	49	49	41	47	54	41	44	50	..	38.8
Mexico §§	Maximum	58	66	50	39	55	72	73	48	60	71	68	70	59	61	48	52	57	71	78	74	62	71	74	70	68	76	68	69	72	81	..	64.7
	Minimum	17	33	42	34	31	32	40	26	26	30	40	40	41	34	35	31	31	32	40	49	49	41	45	52	43	43	49	48	46	50	..	38.3
St. Catharine	Maximum	59	61	56	49	56	68	62	47	58	69	63	68	64	57	47	58	57	76	78	73	58	61	71	66	66	72	68	67	78	79	..	63.7
	Minimum	26	43	38	33	30	36	35	22	29	30	46	39	49	39	34	27	32	33	46	54	46	38	49	52	43	50	54	42	45	50	..	39.7
St. Louis (1)	Maximum	50	66	63	43	52	69	79	45	55	67	73	69	54	60	49	53	57	68	77	74	66	72	76	69	66	75	78	67	74	83	..	65.0
	Minimum	26	43	43	37	31	40	35	30	34	42	50	42	44	40	43	37	42	42	51	57	50	50	57	56	47	53	58	53	54	60	..	45.0
Unionville	Maximum	60	62	57	46	58	70	66	48	58	68	66	71	66	56	45	56	60	72	78	74	70	67	68	65	66	70	66	68	76	80	..	64.4
	Minimum	25	44	35	32	28	35	32	20	28	32	46	35	42	36	34	30	28	35	47	57	46	40	46	51	28	46	50	38	40	53	..	38.0
Warrenton §§	Maximum	56	66	59	40	52	70	78	40	59	69	71	66	53	60	46	55	56	70	78	75	64	73	75	71	66	77	75	68	75	80	..	64.8
	Minimum	17	30	47	36	32	33	41	28	28	35	48	40	43	39	40	32	37	40	45	55	50	45	49	55	45	48	56	52	49	55	..	41.7
Southeast Lowlands.																																	
Caruthersville	Maximum	65	72	72	62	62	74	79	70	67	78	82	68	70	71	74	68	68	76	80	82	76	90	86	73	72	91	85	80	85	89	..	75.6
	Minimum	30	42	52	50	42	41	47	38	37	45	50	56	58	46	43	39	46	38	45	54	60	49	61	63	56	55	60	60	52	53	..	48.9
Doniphan	Maximum	55	66	69	67	67	68	77	72	61	70	74	63	65	69	68	61	64	68	76	72	72	84	82	79	75	81	79	79	80	81	..	71.5
	Minimum	24	37	50	49	38	32	50	34	33	36	39	52	54	46	40	34	34	33	38	53	53	42	60	62	54	54	55	58	52	49	..	44.8
Jackson	Maximum	54	68	63	62	55	68	75	72	58	70	75	72	68	66	65	57	61	69	76	73	70	84	86	70	71	77	83	68	75	85	..	69.9
	Minimum	22	59	50	44	38	29	47	32	27	33	40	49	55	40	39	32	33	30	39	42	55	41	58	66	48	48	54	55	43	49	..	43.2
Poplar Bluff	Maximum	53	63	68	68	61	65	73	73	59	66	73	73	58	64	64	63	58	67	74	73	71	83	87	76	72	73	73	68	75	77	..	69.0
	Minimum	25	41	51	49	40	35	49	34	32	38	46	46	56	45	43	36	36	35	41	54	55	46	58	63	52	52	56	57	54	51	..	45.9
Cairo, Ill.	Maximum	52	63	63	60	54	64	74	50	55	66	74	69	69	61	66	55	57	64	73	74	69	83	82	67	67	76	79	64	75	79	..	66.8
	Minimum	28	44	52	46	41	40	50	34	36	44	50	55	51	43	45	41	43	42	50	56	56	53	61	58	53	55	61	59	55	58	..	48.7
Ozark Plateau.																																	
Arcadia §§	Maximum	53	66	65	52	59	70	78	52	60	70	74	68	55	66	62	52	61	70	76	72	70	85	82	76	69	79	79	66	78	83	..	68.3
	Minimum	19	26	45	41	35	27	34	29	25	31	40	48	51	40	40	29	30	28	38	54	50	41	52	49	45	46	51	54	44	52	..	39.8
Birchtree	Maximum	52	62	68	60	56	70	79	66	62	69	71	67	60	65	67	59	62	69	75	66	69	82	87	81	72	79	72	72	72	75	..	68.9
	Minimum	26	40	47	40	36	35	52	30	31	36	46	52	50	45	41	34	34	34	46	51	48	45	52	60	52	52	56	56	50	52	..	44.3
Eldon	Maximum	60	66	51	40	54	72	..	..	..	..	..	..	..	..	..	..	81	71	78	71	66	74	80	70	69	74	65	68	71	77	..	[j]67.9
	Minimum	28	41	36	32	32	35	38	28	29	..	..	..	40	40	40	29	34	38	42	45	40	51	56	40	48	54	48	49	49	55	..	[c]40.6
Farmington	Maximum	59	57	66	57	55	74	80	68	68	76	75	65	57	63	58	55	57	68	76	75	67	82	78	75	72	81	73	70	75	85	..	68.9
	Minimum	23	39	49	40	35	30	48	29	27	36	43	48	50	40	42	32	34	32	44	51	52	47	62	57	42	46	51	54	50	59	..	43.1
Hollister	Maximum	65	60	62	75	74	76	80	60	58	75	70	68	68	68	68	60	56	58	80	74	72	80	92	80	75	80	75	78	80	85	..	71.7
	Minimum	40	40	40	45	46	30	50	30	30	32	44	42	45	42	36	30	28	36	30	52	48	50	52	45	40	52	54	56	45	45	..	41.8
Koshkonong	Maximum	55	64	72	68	59	71	78	70	63	72	75	65	59	67	65	59	66	70	76	70	69	83	86	82	80	79	78	74	76	82	..	71.1
	Minimum	27	39	48	51	38	39	50	32	32	42	48	53	52	40	44	39	36	38	47	53	50	49	60	61	52	55	59	57	52	54	..	46.6
Lebanon §§	Maximum	60	61	56	43	58	73	72	50	63	71	72	72	57	57	62	51	62	72	77	69	76	84	78	79	74	80	77	66	77	82	..	67.8
	Minimum	14	35	44	39	31	33	38	26	30	32	38	48	49	39	30	40	31	33	38	48	44	44	60	56	49	50	51	53	42	47	..	40.4
Mountain Grove §§	Maximum	54	59	69	52	56	68	76	50	63	68	68	65	52	51	60	44	60	68	73	67	66	79	86	80	68	77	74	68	74	79	..	65.8
	Minimum	18	30	44	42	34	34	40	27	28	34	44	51	50	43	41	33	29	37	44	51	46	48	55	58	50	51	54	56	46	50	..	42.3
Neosho	Maximum	66	63	66	56	59	74	77	59	65	70	70	67	68	65	63	63	61	72	79	79	69	80	87	84	77	78	78	67	75	83	..	70.7
	Minimum	32	48	48	41	37	35	58	29	31	33	50	49	53	47	37	35	31	32	46	54	48	44	67	61	58	51	55	56	44	46	..	45.2
Rolla	Maximum	50	64	56	55	55	73	79	53	63	71	74	72	62	61	60	55	59	73	78	76	66	85	86	80	74	82	74	68	76	83	..	68.8
	Minimum	29	44	47	39	33	37	53	28	31	39	49	50	51	41	40	30	33	32	49	49	47	45	61	58	49	48	56	54	50	51	..	44.1
Springfield	Maximum	60	59	59	47	54	71	73	47	62	67	66	67	58	60	58	46	58	68	75	65	64	80	83	77	68	73	73	63	71	79	..	65.0
	Minimum	31	43	46	36	34	41	35	27	35	41	51	53	48	43	41	37	35	41	49	49	46	50	61	60	54	54	58	56	49	54	..	45.3
Southwest Plain.																																	
Amoret	Maximum	64	65	52	46	60	73	68	48	64	72	64	71	68	63	60	57	61	73	78	68	67	72	81	67	72	76	70	67	75	80	..	66.7
	Minimum	33	45	38	33	31	38	42	22	32	32	47	49	47	44	40	34	32	34	47	52	44	42	58	47	48	48	52	47	44	51	..	41.8
Appleton City	Maximum	64	62	51	48	58	71	70	48	51	..	..	..	..	71	60	54	63	73	78	70	67	76	82	75	70	76	72	68	77	80	..	[d]66.7
	Minimum	34	45	42	37	34	38	45	26	34	..	..	..	..	..	34	36	34	38	50	55	46	45	64	53	51	52	56	49	47	51	..	[e]43.8
Clinton	Maximum	68	67	50	50	60	75	73	60	70	72	72	74	71	67	65	66	65	78	84	81	69	80	82	79	74	77	77	71	78	82	..	71.2
	Minimum	48	45	42	37	32	40	44	26	34	36	35	52	51	46	40	35	40	36	50	57	47	44	60	55	50	51	55	50	48	50	..	44.5
Harrisonville §§	Maximum	65	67	53	37	60	75	68	51	67	73	61	67	65	62	57	53	64	76	81	61	65	68	75	68	79	75	58	67	79	79	..	65.9
	Minimum	18	42	41	35	32	33	42	24	31	36	42	48	48	44	38	33	34	38	44	52	45	44	45	49	49	51	54	50	46	52	..	41.3
Lamar §§	Maximum	61	63	52	43	58	74	72	48	67	72	63	73	68	63	63	53	61	73	77	64	66	81	84	73	71	75	74	66	75	82	..	67.3
	Minimum	20	35	47	41	36	38	44	27	29	31	40	52	53	48	40	36	34	37	43	53	48	48	52	56	56	53	55	54	47	49	..	43.5
Lamonte	Maximum	66	64	51	44	58	74	70	50	64	74	70	69	65	61	49	60	61	76	80	65	65	71	76	70	69	78	70	69	77	84	..	66.7
	Minimum	34	45	39	32	30	38	33	27	32	34	49	48	50	45	36	28	34	36	45	53	46	39	58	55	47	49	53	49	48	50	..	42.1
Marshall	Maximum	63	64	56	49	54	71	65	52	63	72	68	73	64	56	59	61	74	81	79	63	64	69	79	73	76	74	72	..	..	79	..	[b]66.9
	Minimum	27	43	39	35	32	35	27	23	31	34	50	45	42	33	27	32	40	56	54	46	43	37	54	52	45	48	49	..	..	48	..	[b]40.2
Nevada	Maximum	68	64	52	47	59	73	70	64	66	72	66	72	67	63	62	55	63	73	76	65	67	78	83	77	72	75	70	68	74	80	..	68.0
	Minimum	38	46	44	37	36	41	47	28	30	34	51	51	55	56	55	37	34	39	53	55	58	45	64	56	52	50	54	51	48	54	..	46.6
Warrensburg	Maximum	65	66	62	52	60	73	70	50	63	73	69	69	66	62	62	59	61	68	80	73	65	70	74	77	70	77	68	68	77	81	..	67.7
	Minimum	32	46	39	31	32	40	39	26	34	35	52	51	46	47	40	29	31	42	49	56	43	46	56	53	48	49	55	49	48	51	..	43.4
Warsaw	Maximum	64	63	55	50	57	73	72	48	64	72	70	71	66	61	58	54	62	73	78	76	67	77	84	76	75	76	72	70	75	81	..	68.0
	Minimum	32	48	44	38	32	35	44	28	31	30	53	53	53	43	40	31	31	30	51	56	48	41	64	57	51	50	54	52	44	47	..	43.7
Northwest Plateau.																																	
Chillicothe §§	Maximum	64	63	49	42	58	73	47	48	60	71	64	69	64	56	42	57	60	75	80	61	59	64	74	66	65	72	57	68	76	80	..	62.8
	Minimum	19	37	37	35	31	33	42	23	27	29	34	42	43	43	31	26	28	32	41	55	46	40	47	50	44	49	54	43	49	49	..	38.6
Grant City	Maximum	64	67	64	46	66	75	75	50	64	73	73	69	76	66	67	57	61	77	81	80	60	65	76	72	65	69	66	74	80	79	..	68.6
	Minimum	25	48	34	33	29	39	33	20	34	31	49	41	48	42	33	30	34	37	50	53	44	38	46	47	40	47	50	44	45	50	..	39.8
Kansas City	Maximum	64	63	52	39	58	73	64	48	62	70	62	66	65	57	52	52	60	74	77	66	63	64	71	63	69	72	59	66	75	79	..	63.5
	Minimum	35	49	38	34	35	44	30	26	38	45	52	47	50	45	38	36	40	44	56	53	46	44	55	48	49	54	53	48	50	58	..	44.7
Kidder §§	Maximum	65	65	48	45	60	74	79	51	62	74	62	68	69	60	45	57	60	75	80	63	60	62	73	64	65	73	57	69	78	82	..	64.8
	Minimum	17	36	36	34	29	31	42	23	24	34	39	43	43	43	35	29	31	35	38	56	45	39	45	49	44	47	51	42	46	50	..	38.5
Lexington §§	Maximum	65	69	56	48	60	72	68	51	63	74	63	69	65	61	58	60	62	76	80	72	64	66	71	69	67	71	66	70	79	79	..	66.5
	Minimum	29	46	39	35	32	39	57	26	35	38	52	46	50	46	36	30	34	38	54	59	46	42	55	52	46	51	54	47	48	54	..	43.9
Maryville	Maximum	66	66	56	48	60	76	65	50	60	72	69	68	74	64	49	57	61	71	80	71	56	60	72	65	63	68	60	71	78	80	..	65.3
	Minimum	27	50	34	34	30	39	32	20	34	33	50	43	47	40	33	30	33	37	53	53	43	38	38	44	45	48	49	41	48	49	..	39.8
Oregon	Maximum	65	63	57	44	56	70	61	46	60	69	68	68	70	58	49	55	58	72	78	75	57	58	67	63	61	70	57	66	75	80	..	63.3
	Minimum	30	50	35	34	31	42	31	21	36	38	50	43	54	41	34	33	36	40	55	55	43	41	49	43	47	49	50	43	49	52	..	41.8
St. Joseph	Maximum	65	62	52	46	66	74	63	50	61	71	67	70	71	56	51	57	61	74	80	68	59	62	70	68	66	69	57	68	77	82	..	64.6
	Minimum	31	50	36	34	33	44	29	24	40	39	51	46	48	43	35	35	35	44	56	52	44	44	51	46	48	50	50	46	53	55	..	43.1
Trenton	Maximum	60	62	51	53	56	69	61	45	58	69	65	68	66	57	55	53	57	70	77	70	59	63	70	65	65	74	64	66	75	76	..	63.3
	Minimum	28	45	37	35	31	39	35	24	34	33	40	43	48	41	38	32	31	37	50	55	46	40	48	50	45	51	52	43	51	58	..	41.4

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

55105
UNMS

AUG 4 1924

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVII. COLUMBIA, MO., MAY, 1923. No. 5.

GENERAL SUMMARY.

The first week of May and the last four or five days averaged warmer than normal, but the rest of the month was mainly cool. On most of these days the averages were within 3° or 4° of normal, but there were several real cold days when the average warmth did not equal the usual by from 9° to 15°. The last three or four days, however, were distinctly warm and summer-like. Along about the 8th to the 10th a cool wave overspread the State, resulting in general frost, and freezing temperatemperatures at about 30 stations.

During the first week precipitation was light and local, but was frequent and general during the remainder of the month. Heavy to excessive rains fell in the Southeast, parts of the Ozark Plateau, and in few of the southwestern counties. Though frequent elsewhere, the monthly totals were considerably less than the usual May rainfall, although quite sufficient for present needs.

While conditions varied in parts of the State, the month's weather was unfavorable for farm work and crop growth, that is, too cool generally and too wet locally. Wheat, though, kept a fair to good condition and made satisfactory development. Peaches, as a commercial crop, were killed by the freeze. Other fruits did well.

TEMPERATURE.

The monthly mean temperature for the State, 71 stations reporting, was 62.7°. The departure from the normal for 68 stations having 10 or more years' record was minus 1.9°. It was the coolest May since 1919. As a rule the first four days and last four days were warmer than normal, but cool unseasonable weather prevailed most of the time. A freeze occurred at 30 stations on the 9th, and at several stations in the extreme Southeast on the 10th. Owing to the backward condition of vegetation there was not much damage. The lowest temperature was 25°, at Dean, McDonald County on the 9th. The highest was 97°, at Caruthersville, Pemiscot County on the 31st.

PRECIPITATION.

The average precipitation for the State, 87 stations reporting, was 4.59 inches. The departure from the normal for 81 stations having 10 or more years' record was minus 0.49 inch. The precipitation was unevenly distributed, there being a large excess in the southeastern low lands and portions of the Ozark Plateau, and comparatively marked deficiencies in the other three divisions, except in the extreme southwest part of the southwestern plain. Excessive precipitation was rather general on the 10th and 11th, and inthe South east on the 15th, but most of the rains were light though frequent and general. At a few places in the Southwest and Southeast local down-pours caused damage to crops and other property. The greatest local monthly amount was 11.31 inches, at Jackson; and the greatest amount in any twenty-four hours was 3.48 inches, at Jackson on the 15th.

A flurry of snow occurred at 18 stations, in the central and northern sections, on the 8th, but only one place, the University of St. Louis, reported a measurable amount, 0.1 inch. Snow flurries are not infrequent during the first part of May. Only once, though, in the past 30 years or more has a real snowstorm occurred, and that was in May, 1907.

WIND.

The prevailing winds were from the southeast. The average wind movement was 7,105 miles, based on the records of 8 stations equipped with anemometers. The average velocity was 9.6 miles, or slightly more than normal. A few local damaging winds occurred.

SUNSHINE AND CLOUDINESS.

The average number of clear days was 11, 3 less than last May. The average number of hours of sunshine was 266, or about 60 per cent of the possible and about 3 per cent less than normal. There was about 10 per cent more sunshine in the northwest section than in other sections.

MISCELLANEOUS PHENOMENA.

Fog, dense.---At Kansas City on the 28th.

Frost, light.---9th, 10th, 13th, and 17th.

Frost, heavy and killing locally.---On 9th, and 10th.

Hail.---11th, at Neosho, and St. Catharine.

Halos, solar.---1st, 2d, 4th, 5th, 6th, 7th, 10th, 13th, 21st, 23d, 26th, and 30th.

Halos, lunar.---31st.

Thunderstorms.---2d, 3d, 7th, 10th, 11th, 12th, 14th, 15th, 18th, 19th, 20th, 23d, 24th, 25th, 26th, 27th, 28th, 29th, 30th, and 31st.

SPECIAL STORM NOTES.

Neosho.---A thunderstorm attended by wind, heavy rain, and severe hail, occurred at and in the vicinity of Neosho, Newton County, 8 p. m. to 9 p. m. May 11. The storm extended from about 12 miles west to 15 miles east of Neosho. The width was about 4 1-2 miles. The movement was from west to east. Hailstones varied between the size of playing marbles to 6 1-2 inches in circumference. On open ground nearly 2 inches deep, and in drifts of 8 inches. Toward north exposures the stones remained unmelted for 48 hours. Some roofs of houses were punctured by hail, and many automobiles damaged. Wire poles and some trees were blown down. Damage to property, including crops, the heaviest being to tree fruits and strawberries, was conservatively estimated at $300,000.

Warrenton.---A small local whirlwind occurred just southeast of this town about 3 p. m. May 26th. The movement was from east to west, contrary to the usual course of these storms. The path was only a few yards wide, and a few hundreds long. A few outhouses lying in the path were damaged. The total loss was small.

Lockwood.---A severe thunderstorm, attended by excessive rain, some hail, and high wind occurred about 7.30 p. m. May 11th. There were railroad washouts, and some other damage.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Max. velocity. Direction.	Max. velocity. Date.
Columbia	29.89	78	59	243	55	5,965	8.0	37	nw.	8
Hannibal	29.90	76	..	...	..	6,614	8.9	32	nw.	8
Kansas City	29.89	74	55	312	70	8,312	11.2	43	w.	11
St. Joseph	29.89	78	52	284	64	6,499	8.7	37	nw.	11
St. Louis	29.88	73	60	268	60	9,152	12.3	54	se.	14
Springfield	29.88	82	69	216	49	7,572	10.2	36	e.	14
Cairo, Ill	29.88	79	66	...	..	6,719	9.0	39	s.	11
Keokuk, Iowa	29.92	68	53	271	61	6,004	8.1	44	nw.	11

COMPARATIVE DATA FOR MAY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	62.1	−2.3	93	30	5.35	+0.58	......	0	5	....	....	....
1889	63.5	−0.9	96	28	6.56	+1.79	......	0	5	....	....	....
1890	62.8	−1.6	96	32	3.47	−1.30	......	0	6	....	....	....
1891	61.5	−2.9	97	28	4.26	−0.51	......	0	8	....	....	....
1892	60.7	−3.7	91	28	7.80	+3.03	3.90	0	17	5	9	17
1893	66.8	−2.6	94	30	5.89	+1.12	5.83	0	10	11	11	9
1894	63.7	−0.7	95	22	3.99	−0.78	4.20	0	8	13	11	7
1895	64.6	+0.2	103	28	4.08	−0.69	3.43	0	9	13	12	6
1896	70.1	+5.7	96	32	9.09	+4.32	4.66	0	12	12	12	7
1897	62.4	−2.0	93	28	2.56	−2.21	3.82	0	7	16	11	4
1898	65.2	+0.8	97	31	7.90	+3.13	5.50	0	14	12	10	9
1899	66.9	+2.5	96	34	6.26	+1.49	5.28	0	2	10	13	8
1900	66.3	+1.9	97	29	3.69	−1.06	4.00	0	10	14	11	6
1901	63.8	−0.6	98	30	1.47	−3.30	3.04	0	6	15	10	6
1902	69.4	+5.0	98	39	5.03	+0.25	4.35	0	11	13	11	7
1903	65.1	+0.7	92	23	7.10	+2.33	3.10	0	15	9	10	12
1904	63.1	−1.3	95	32	5.03	+0.26	4.33	0	12	13	10	8
1905	64.9	+0.5	94	34	4.87	+0.10	4.55	0	10	12	11	8
1906	66.3	+1.9	98	27	2.16	−2.61	3.83	0	7	15	10	6
1907	59.5	−4.9	91	17	5.56	+0.79	4.33	0	10	14	6	11
1908	66.1	+1.7	96	24	6.92	+2.15	5.65	0	12	12	10	9
1909	63.3	−1.1	96	23	5.34	+0.57	5.26	0	9	15	9	7
1910	60.1	−4.3	94	32	6.62	+1.85	4.30	0	13	11	8	12
1911	68.8	+4 4	101	27	1.55	−3.22	2.06	0	5	19	7	5
1912	67.6	+3.2	97	30	3.86	−0.91	4.90	0	7	18	8	5
1913	65.8	+1.3	101	33	3.05	−1.93	2.95	0	8	16	7	8
1914	66.6	+2.0	98	31	1.47	−3.40	3.00	0	5	17	9	5
1915	63.7	−1.4	97	30	7.86	+3.04	7.10	0	12	12	7	12
1916	65.6	+0.7	96	33	5.61	+0.89	4.19	0	11	15	8	8
1917	58.7	−6.2	91	30	4.33	−0.47	2.60	0	10	15	7	9
1918	68.3	+3.8	100	28	5.49	+0.68	5.25	0	10	16	8	7
1919	62.0	−2.5	93	35	5.80	+0.87	4.50	0	13	10	10	11
1920	63.8	−0.8	97	32	4.85	+0.04	3.70	0	12	9	9	13
1921	66.4	+2.0	102	28	3.69	−1.20	4.12	0	7	17	8	6
1922	67.2	+2.3	97	38	3.17	−1.77	2.50	0	10	14	10	7
1923	62.7	−1.9	97	25	4.59	−0.49	3.48	T.	12	11	10	10
....	......	....	....	......	......	....	......	....	....	....	....	....
....	......	....	....	......	......	....	......	....	....	...	....	....

Climatological Data for May, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	43	63.0	− 1.3	94	31	34	9	44	1.87	−3.02	0.30	0	12	13	0	18	e.	O. K. Benecke
Clifton Hill	Randolph	731	24	62 0	− 2.2	87	31	32	9	40	1.61	−3.53	0.44	0	11	8	14	9	......	Dr. A. J. Bradsher
Columbia	Boone	748	33	62.6	− 1.9	87	31	36	9	40	1.97	−2.89	0.73	T.	15	6	14	11	e.	U. S. Weather Bureau
Downing	Schuyler	878	13	62.0	......	86	31	31	9	40	2.80	−1.61	1.21	T.	9	15	6	10	e.	E. E. St. Clair
Fayette	Howard	661	43	59.2	− 5.1	84	31	33	9	40	1.80	−2.82	0.86	0	6	..	..	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	35	63.0	− 2.0	88	31	34	9	46	2.29	−1.48	0.60	0	14	12^{a}	12^{a}	6^{a}	e.	Westminster College
Gorin	Scotland	700	36	....	......	..	..	..	..	..	3.05	−1.56	1.04	0	10	10	5	16	ne.	I. S. McCollom
Hannibal	Marion	534	40	62.5	− 1.1	86	31	36	8	38	2.05	−2.95	0.74	T.	12	5	13	13	e.	U. S. Weather Bureau
Jefferson City	Cole	557	40	62.4	− 2.5	88	31	38	9†	42	2 97	−1.58	0.75	T.	12	14	8	9	n.	Miss Emma Swift
Kirksville	Adair	969	40	61.0	− 1.5	85	31	32	9	37	3.85	−1.36	1.38	0	9	14	5	12	ne	Prof. J. S. Stokes
Louisiana	Pike	469	42	63.2	− 0.6	85	31	35	6†	39	2.87	−1.69	0.70	T.	9	19	8	4	e.	J. T. Farrell
Macon	Macon	875	30	62.8	− 1.1	90	31	32	9	42	3.10	−1.47	1.17	T.	12	19	5	7	se.	W. C. Brown
Mexico	Audrain	800	45	61.0	− 3.3	90	31	33	9	43	1.48	−3.28	0.38	T.	13	19	4	8	e.	Mrs. Abbie Snoddy
Palmyra	Marion	652	24	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	.....	W. B. Markell
St. Catharine	Linn	800	13	62.5	0.0	87	31	32	9	38	2.13	−2.57	0.86	T.	11	14	9	8	e.	L. D. Baker
St. Charles	St. Charles	456	45	63.6	+ 0.6	90	31	35	9†	46	4.71	+0.53	1.16	0	11	3	10	18	e.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	64.1	− 2.8	84	31	38	8	35	5.85	+1 61	1.62	T.	14	5	13	13	e.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	63.6	− 2.5	82	19†	38	8†	36	5.97	+1.73	1.26	0.1	14	8	15	8	e.	St. Louis University
Shelbina	Shelby	779	30	....	......	..	..	..	..	..	1.89	−3.09	0.50	0	7	..	..	..	.....	W. M. Nolin
Steffenville	Lewis	650	30	63.4	− 0.7	88	31	30	11	49	3.94	−1.01	1.80	T.	9	8	13	10	s.	Frank Hall
Unionville	Putnam	1,062	30	61.0	− 1.4	86	31	31	9	38	1.90	−3.06	0.80	0	4	11	8	12	s	Geo. W. Davis
Warrenton	Warren	816	41	62.0	− 3.0	85	31	35	9	32	3.00	−1.79	1.18	T.	10	10	10	11	ne.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	50	62.0	− 1.8	85	31	35	9	33	2.37	−1.88	1.22	T.	10	3	13	15	e.	U. S. Weather Bureau
Section means and	extremes	.....	..	62.3	− 1.8	94	31	30	11	49	2.88	−1.76	1.80	T.	11	11	9	11	e.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	32	70.0	+ 0.5	97	31	40	10	43	10.13	+5.87	3.37	0	12	16	8	7	e.	H. E. Averill
Doniphan	Ripley	344	19	64.7	− 2.2	90	31	34	10	45	9.89	+5.73	3.05	0	17	10	9	12	ne.	W. W. Martin
Jackson	Cape Girardeau	428	33	64.0	− 1.8	88	31	32	10	40	11.31	+6.95	3.48	0	15	5	12	14	s.	John G. Putz
Marble Hill	Bollinger	470	29	63.4	− 2.3	85	30†	32	10	36	9.24	+5.01	3.11	0	12	11	9	11	n.	R. A. DeWitt
Parma	New Madrid	281	2	....	......	..	..	..	..	..	10.13	......	3.32	0	11	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	13	....	......	..	..	..	..	..	6.99	+2.21	2 20	0	8	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	339	19	65.7	− 2.3	91	31	36	10	38	8.52	+3.49	2.80	0	15	7	16	8	ne.	Rev. J. A. Gallaher
Vanduser	Scott	304	2	....	......	..	..	..	..	..	7.98	+3.82	3.10	0	12	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	51	65.0	− 3.4	84	30	42	9	29	5.10	+1.27	2.78	0	15	6	4	21	ne.	U. S. Weather Bureau
Section means and	extremes	....	..	65.5	− 1.9	97	31	32	10	45	8.81	+4.29	3.48	0	13	9	10	12	ne.	
Ozark Plateau.																				
Arcadia	Iron	926	45	61.0	− 3.6	84	30	30	10	49	6.13	+1.35	2.15	0	14	7	9	15	w.	Arcadia College
Birchtree	Shannon	1,000	29	62.6	− 2.6	85	29†	36	9†	38	6.99	+2.68	1.88	0	13	15^{a}	6^{a}	9^{a}	e.	V. H. Kirkendall
Bolivar	Polk	1,071	36	61.7	− 3.2	83	31	34	9	39	4.10	−1.32	1.10	0	11	18	7	6	e.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	24	57.8	− 8.0	81	31	25	9	39	7.78	+1.82	1.32	0	14	15^{a}	4^{a}	11^{a}	ne.	H. E. Dean
Eldon	Miller	934	24	61.4^{b}	− 3.1	88	30	34	9	37	3.72	−1.14	0.96	T.	5	3^{b}	15^{b}	11^{b}	ne.	E. H. Shepherd
Farmington	St. Francois	918	26	62.9	− 0.9	87	31	35	10	44	8.16	+2.66	1.36	0	16	9	12	10	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	60.8	− 4.5	91	31	33	9	44	6.59	+2.05	1.80	0	13	11	9	11	se.	A. C. Leach
Goodland	Iron	1,000	30	61.2	− 3.3	83	31	29	10	46	7.61	+2.99	2.85	0	13	10	8	13	s.	F. M Adams
Greenville	Wayne	381	1	64.5	......	88	31	32	10	43	10.47	......	3.02	0	15	12	13	6	se.	J. J. Amen.
Hollister	Taney	735	20	62.6	− 4.7	91	31	30	9	47	4.70	+0.47	1.20	0	5	10	9	12	sw.	W. P. Chapmann
Houston	Texas	1,280	31	61.5	− 3.4	90	31	32	10	49	6.87	+2.78	1.88	0	8	9	12	10	e.	Walter T. Beard
Koshkonong	Oregon	958	22	64.6^{c}	− 2.2	89	30†	36	9	37	7.77	+2.93	1.92	0	13	10^{b}	5^{b}	14^{b}	ne.	R. M. Hitt
Lebanon	Laclede	1,265	36	62.4	− 3.2	93	31	31	9	47	3.27	−2.34	0.80	0	15	14	2	15	s	Leonard E. Dickerson
Lockwood	Dade	1,078	27	64.2	− 0.4	88	30	32	9	37	6.76	+1.68	2.65	0	13	10	11	10	se.	C. S. Crow
Mountain Grove	Wright	1,463	26	61.8	− 2.1	86	31	33	9	39	6.05	+1.20	2.18	0	16	6	11	14	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	40	65.4	− 0.8	92	31	29	9	41	8.49	+2.42	2.94	0	17	15	10	6	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	39	64.0	− 0.5	91	31	36	9	43	4.01	−1.00	1.10	0	11	13	8	10	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	19	63.0^{b}	− 1.9	87	31	31	9	33	7.51	+1.92	2.65	0	12	7^{a}	16^{a}	7^{a}	e.	Floyd E. Fawver
Seymour	Webster	1,642	17	62.1	− 2.0	86	31	30	9	51	5.95	+0.25	2.11	0	18	13	9	9	ne.	Ira H. Hailey
Springfield	Greene	1,350	45	62.4	− 2.2	85	31	34	9	35	4.55	−1.00	1.55	0	15	10	12	9	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	62.4	− 2.8	93	31	25	9	51	6.37	+1.07	3.02	0	13	11	9	11	se.	
Southwest Plain.																				
Amoret	Bates	831	17	61.9	− 1.6	84	11	29	9	41	3.46	−1.36	0.75	0	11	14	11	6	ne.	Darby Fruit Farm
Appleton City	St. Clair	853	31	64.8^{d}	− 0.3	89	31	34	9	41	4.73	−0.81	1 37	0	15	10^{c}	13^{c}	5^{c}	se.	W. G. Bigelow
Clinton	Henry	765	36	66.1	+ 0.9	93	31	36	9	46	4.84	−0 60	1.50	0	14	13	10	8	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	61.8	− 2.2	86	31	31	9	48	2.70	−2.11	0.71	0	9	4	5	22	e.	John H. Patterson
Lamar	Barton	980	42	63.1	− 2.8	88	31	33	9	40	7.86	+2.40	2.60	0	11	11	8	12	ne.	Jesse A. Mann
Lamonte	Pettis	867	36	63.3	− 1.4	93	31	31	9	44	2.71	−2.24	0.75	0	10	21	6	4	se.	J. E. Wheeler
Marshall	Saline	779	34	63.0^{c}	− 1.1	90	31	32	9	45	2.52	−2.34	0.95	0	9	11^{c}	11^{c}	6^{c}	ne.	Dr. W. H. Black
Nevada	Vernon	862	31	63.6	− 1.0	87	31	33	9	34	2.70	−3.02	0.85	0	10	11	12	8	n.	George A. Kaupp
Warrensburg	Johnson	878	43	63.7	− 1.6	92	31	32	9	43	3.01	−1.65	0.91	0	12	9	16	6	e.	E. A. Markey.
Warsaw	Benton	687	28	64.0	− 1.8	90	31	34	9	48	2.66	−2.57	0.60	0	12	5	21	5	e.	J. R. Smith, M. D.
Section means and	extremes	.....	..	63.5	− 1.3	93	31	29	9	48	3.72	−1.43	2.60	0	11	11	12	8	ne.	
Northwest Plateau.																				
Avalon	Livingston	730	34	63.9	+ 0.4	88	31	33	9	32	2.20	−2.83	0.65	0	7	..	..	..	......	F. G. Ashbaugh
Bethany	Harrison	916	32	61.6^{a}	− 1.0	88	31	30	9	41	1.84	−3.14	1 00	0	11	9^{a}	10^{a}	11^{a}	nw.	Owen Ross
Chillicothe	Livingston	779	17	61.6	− 5.5	89	31	33	9	40	1.88	−2.83	0.51	0	11	17	8	6	e.	Wm. J. Olenhouse
Conception	Nodaway	980	39	61.7	− 0 3	84	30	33	9	38	3.05	−1.72	0.80	T.	11	10	13	8	e.	Fr. Adelhelm Hess
Edgerton	Platte	856	11	59.6^{d}	......	78	19†	29	9	36	3.21	−2.24	0.58	T.	11	20	2	9	e.	Fred L. Stiff
Grant City	Worth	1,134	31	63.0	+ 0.9	86	30†	30	9	38	2.20	−2.53	1.80	0	5	15	12	4	s.	B. F. Locke
Kansas City	Jackson	963	50	63.0	− 1.5	85	31	37	9	30	2.25	−2.86	0 66	0	13	11	12	8	e.	U. S. Weather Bureau
Kidder	Caldwell	1,020	36	61.8	− 1.3	88	31	31	9	48	1.39	−3.82	0.32	0	12	14	3	14	se.	Linn Terry
Lexington	Lafayette	688	41	63.2	− 1.2	88	31	35	9	37	2.49	−2.57	0.55	T.	15	13	9	9	se.	Edwin G. Loomis
Liberty	Clay	859	33	63.6	− 1.2	90	29	34	9	43	3.22	−1.76	0.80	0	15	11	14	6	se.	James H. Harris
Maryville	Nodaway	1,169	29	61.2	+ 0.1	86	31	31	9	36	2 34	−3.41	1.02	T.	10	18	1	12	s.	J. R. Brink
Oregon	Holt	1,048	67	61.0	− 2.2	82	30†	31	9	32	2.71	−2.15	0.66	0	10	11	10	10	se.	Tom Curry
St. Joseph	Buchanan	967	50	62.2	− 2.3	85	30	35	9	34	2.80	−1.57	0.77	T.	16	14	10	7	se.	U. S. Weather Bureau
Tarkio	Atchison	916	30	60.9	− 2.4	84	30	32	9	37	2.81	−1.85	1.00	0	9	10	10	11	se.	Albert Volker
Trenton	Grundy	822	28	62.2	− 1.6	88	31	34	9	34	2.49	−2.85	1.26	0	12	15	13	3	n.	W. H. Estes
Section means and	extremes	.....	..	62.0	− 1.4	90	29	29	9	48	2.46	−2.54	1.80	T.	11	13	9	9	se.	
State means and	extremes	.....	..	62.7	− 1.9	97	31	25	9	51	4.59	−0.49	3.48	T.	12	11	10	10	e.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for May, 1923.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri		T.	.04					.08			.24	.04		T.	.28	.01		.29		.12			.21	.34	.36	.02				.60		2.63
Brunswick‖	Grand			.03					.15			.19	.03			.30			.40	.10	.04			.14	.30	.04					.15		1.87
Clifton Hill	Chariton							.25				.20			.15				.44	.04				.28	.06	.01		.03	.10	.05			1.61
Columbia***	Missouri		T.	T.				.06	.05		.03	.05	T.		.25	.02	.01	.06	.20					.73	.31	.12		.02	.03	.03			1.97
Downing	Mississippi							.02	.02			.92	1.21		T.	.18			.19	.12								.05	.09				2.80
Fayette‖	Missouri							.16				.14			.33	.04				.27				.86				T.					1.80
Fulton	do			.02					.10			.04	.32		.36	T.	.03	.01	.60			.14		.19	.38	.08		.01		.01			2.29
Gorin	Mississippi							.06	.04			1.04	.71		.22		.11		.08	.04								.23		.52			3.05
Hannibal***	do							.02	.05		.06	.68			.35	.03	.10		.40	T.				.01				.11	.08		.16		2.05
Hermann‖	Missouri				.07	.01				.04			.61			.32	.02		.60		.09				.03	.13	.03	.16	.05		.02		2.18
Jefferson City‖	do								.12			.05	.10			.36	.25		.75					.25	.85	.22	.02	.45			.05		2.97
Kirksville	Mississippi							.35				1.38	.77		.13					.24	.04			.18					.05	.71			3.85
Louisiana	do								.05	T.		.15	.55			.60	.16		.40					T.			.10		.16			.70	2.87
Macon‖	Chariton								.53			.16	.45			.12	.08		.18		.03				.05	.03			.04	.26	1.17		3.10
Mexico‖	Mississippi								.20			.12	.02			.38	.12		.21		.13			.02	.01	.10			.04	.12	.01		1.48
Pacific‖	Meramec				.08	.07			.08				T.			.74	.77		.55							.08	1.27	.61	.09	.07	T.		4.41
Palmyra‖	Mississippi																																....
St. Catharine	Grand							.03	.04			.86	.60		.07	.05	.03		.20					.09					.06	.10			2.13
St. Charles	Missouri				T.			T.	.15			.05	.86		.45	1.16			.49		.11				T.		.78	.17	.32	.17	T.		4.71
St. Louis (1)***	Mississippi		T.	T.	.31			.02	.01		T.	T.	T.		1.19	1.00	.03	.07	.77		.05				T.	.34	1.28	.02	.74		.02		5.85
St. Louis (2)	do		T.	T.	.34			.03	.01			.03			1.26	1.03		.10	.75		.05			T.	T.	.82	.84	.04	.52		.15	T.	5.97
Shelbina	do						.24			.36				.50		.20		.24			.25									.10			1.89
Steffenville	do							.25	.05		1.80		.80		.30	.05	.25		.39					.05				T.		T.			3.94
Union‖	Meramec				.05	.04			.04	.02			.02			.53	.38		.62							.26	.65	.53	.06				3.20
Unionville	Chariton							T.				.25	.80		T.	.15								T.				T.	T.	.70			1.90
Valley Park‖	Meramec			T.	.11	T.			.16			T.	.05			.97	1.05		.62	T.	T.				T.	.45	2.23	.05	.08	.15		T.	5.92
Warrenton‖	Mississippi			T.	.02				.03			T.	.31			.37	.06		.61		.05					.09		1.18	.05	.23			3.00
Keokuk, Ia.***	do								.03			1.22			.08	.01	.18		.06	.10								.12	.04	.53			2.37
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi			.40	.60	.08			.09				.40			2.88	.35		.03	.07						.19	.10	.10		.21			5.50
Caruthersville	do	T.	.48	.75	.68							.33	T.		.98	3.37	T.		T.				.07	.15	.42	.60	.20		T.	T.		2.10	10.13
Doniphan	Black		.40	1.00	2.00			.02				.08	.10		1.60	3.05	.30	T					.10	.10	.29	.10	.02	.06	.35	T.	.32		9.89
Jackson	Mississippi		.31	1.25	1.03			.10	.05			.43			.83	3.48	.56		.10						1.14	.47	.35		.01		1.20		11.31
Marble Hill	do			.45	2.06			.23							.89	3.11	.75	.14						.10	.11	.95	.15		.30				9.24
New Madrid‖	do			1.85	.80	.40			.05				.27		.05	4.80	.44		.01							.26	.65	.03	1.18				10.79
Parma	St. Francis		.57	1.05	1.70								.16		1.06	3.32	.07								.10	.32	.90					.88	10.13
Patton (near)	Mississippi			.25	1.35										.95	2.20	1.25	.24							.45	.30							6.99
Poplar Bluff	Black		.64	1.02	1.99				.03			.07	.03		1.42	2.80	.17		02				T.	.01	.07		T.		.14	.04	.07		8.52
Vanduser	Mississippi		.56	1.19	1.14				.02			.08			.98	3.10	.23							.05		.23	.08	.32					7.98
Cairo, Ill.***	do		.60	.73	.12			.01	T.			.16	.02		2.29	.79	.02		.01		T.			T.	.30	.02	.01	T.	.01			.01	5.10
Ozark Plateau.																																	
Arcadia‖	St. Francis			.33	.92	.45			.14	T.			T.		T.	2.15	1.33		.43		.05			T.	.05	.08	.09	.02		.04	.05		6.13
Birchtree	Black		.49	.37	1.06			.06					.08		1.82	1.88	.30						.28	.10	.35	.08	.12						6.99
Bolivar	Osage	T.	.16					T.	.05			.08			.89	.25	T.	.20	.17						.75	.43				.02	T.	1.10	4.10
Dean	Neosho			.25	.10			.23					1.32		1.09	.82		.01					.97	.05	1.32	.05	.68		.85		.04		7.78
Eldon	Missouri								.31						.60	.05		.96							**	**	**	1.80					3.72
Farmington	St. Francis		.21	.11	.83			.16	.08			T.			1.04	1.34	1.00		.86		.08			T.	.28	1.36	.20	.29	.19	.13	T.		8.16
Gano	Meramec		.14	.45	.50			.07	.06			.05	T.		1.06	1.15	.44	T.	.60				T.	.29			.35		T.	1.43			6.59
Goodland	Black		.33	.20	.83			.17	.10						.35	2.85	.27		.50					.05			.88		.70		.38		7.61
Greenville	St. Francis		.69	1.17	2.10			.25	.11			.02			1.10	3.02	.75		.03					T.		.01	T.		.01	.14	.18	.89	10.47
Hollister	White								.40						1.20	1.05									1.00	1.05							4.70
Houston	Gasconade		.60	T.	1.29				T.						1.88	1.66							T.	.20		.10	.30				.84		6.87
Jerome‖	do			.38	.04				.10	.09			.23			.79	.42		.70					.34	.05	T.	.15	.21					3.50
Koshkonong	Black		.70	.26	.48			.09					.23		1.92	1.40	.10	T.						.54	.77	.81	.25	.22					7.77
Lebanon‖	Osage		T.	.11	.62				.02	.02			.20		T.	.80	.30	.45	.50					.35	.04	.01				.03	.26	.16	3.27
Lockwood	do												2.65	.29	.94	.29		.06		.23					.24	1.35	.41		.05	.10	.10	.05	6.76
Mountain Grove‖	White		T.	.25	.28	.22			.09	T.		T.	.13		.04	2.18	1.50		.10	T.			.14	.28	.28	.13	.11	.23			.09	T.	6.05
Neosho	Neosho		.03					.20	.03		T.	.07	2.94		.98	.48	.03	T.		.62			.51	.28	1.65	.45	.08		.01	.04	.09		8.49
Rolla	Meramec		.33	.17	.10			.04	T.			.16			.90	1.10		.75		.07			.30			.09	T.						4.01
Seligman	Neosho			.02				.19	.03			T.	.32		1.41	1.34		T.	T.	.46			.54	.10	2.65	.36		T.			.09		7.51
Seymour	White		.05	.04	T.			.06	.04			.02	.14		1.20	1.41	.09	.03	.08				.09	.02	.21	2.11	.24	T.		.08	.04		5.95
Springfield***	do	T.	.07	.03				.02	.05			.09			1.02	1.00		.03	.02	T			.10	.68	.36	1.05			T.	.02		.01	4.55
Steelville‖	Meramec			.12	.11	.21							.10			1.14	.83		.77					.22	.07		.19		.14		.44		4.34
Tuscumbia‖	Osage		.01	.09					.24			.03	T.			.56	.05		.56	02				.57	.02		.15	.06		.86	.34		3.56
Southwest Plain.																																	
Amoret	Osage		.18									.08			.64	.03		.42	.18	.34				.75	.28					T.	.23	.33	3.46
Appleton City	do	T.	.03					.20	.08			.02			.65		.01	.25	.19	.10			T.	.61	1.37	T.			.57	.02	.01	.62	4.73
Clinton	do		.06	.02				.25				.20			.64	.02		.86	.62		.03		.02	1.50	1.01	.03						.18	4.84
Harrisonville‖	do								.03			.20				.46			.66	.13	.09			.40	.71	.02							2.70
Lamar‖	Neosho		T.						.13			T.				.77	T.		.23		.33		.15	.17	1.92	2.60	.08			1.32		.16	7.86
Lamonte	Missouri		.05						.06			.09			.35	.02		.54	.05					.75	.69				.11				2.71
Marshall	do			T.			T.		T.			T.	.12		.25	.10	.20	.30						.95	.50	T.	.05	T.	.05				2.52
Nevada	Osage							T.	T.			T.			.85	.02		.30		.25			.19	.67	.12				.10	T.	.12	.08	2.70
Osceola‖	do			.05					.10				.10			.72			.44					.10	1.43					.10			3.04
Warrensburg	Missouri		.02	T.				T	.03		T.	.10			.47	.04		.46	.28	.10				.57	.91	.01		.02				T.	3.01
Warsaw	Osage	T	.03					.13	.14			.28	.10		.60	T.	.05	.42	.08					.58	.20					T		.05	2.65
Waverly‖	Missouri		T.	T.					T.			.18	T.			.38	T.		.37	T.	T.			.33	.35	.56			.15		.03	T.	2.35
Northwest Plateau.																																	
Avalon	Grand								.15		.25	.40				.30										.45			.15	.50			2.20
Bethany	do		.02	T.				.05				1.00			.04	.33			.10	.04				.19	.05			T.	.01	.01			1.84
Chillicothe‖	do			.02					.03			.26	.18		T.	.14	T.		.21	.01	.01			.03	T.	T.			.48	T.	.51		1.88
Conception	Missouri		.08	.15	.12			T.	T.		T.	.74	.17		T.	.19		T.	.34	.15			T.	.17	.14				T.	.80		T.	3.05
Edgerton	do		.21					.02	T.			.21			.45	.12			.58	.39				.41	.43			.38		.01		T.	3.21
Grant City	Grand		.12	.06								1.80												.12						.10			2.20
Kansas City***	Missouri	T.	T.	.11				.02	.06		T.	.08			.21	.08		.39	.08	.18			T.	.64	.33	T.			T.	.06		.01	2.25
Kidder‖	Grand				.14				.10			.32	.05			.20	.01		.15	.02				.10		.03			.08		.19		1.39
Lexington	Missouri		.10		.05				.02			.18	.01			.27			.35	.02	.12			.21	.48	.55			.10	.02	.01		2.49
Liberty	do		.04	.29				.07	.03			.17			.36	.05		.02	.49	.28		.04			.80		.38		.17	.03			3.22
Maryville	do			.06					.09			.22	1.02			.30	.01		.03						.49	.10					.02		2.34
Oregon	do		.12	.10				T.			.28	.15				.60			.21	.22				.66	.27				T.	.10		T.	2.71
St. Joseph***	do		.04	.05				.04	.02		.13	.21	.02	T.	.25	.06		.12	.47	.28			T	.77	.25					.08		.01	2.80
Tarkio	do			.17					.08			1.00	.15		.09					.28				.50	.41				.13				2.81
Trenton	Grand		T.	T.				.03	.05		.25	1.26			.11	.03		T.	.19	.04			T.	.16				.24	.08	.05			2.49

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch.
*** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded.

Daily Temperatures for May, 1923.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	84	83	75	74	75	80	74	53	62	83	80	67	73	56	59	64	71	80	86	78	77	75	62	70	81	84	82	83	82	90	94	75.4
	Minimum	56	60	60	52	46	43	50	41	34	39	49	48	36	54	55	46	38	46	53	55	52	57	54	54	55	52	56	55	56	56	65	50.7
Columbia	Maximum	81	75	70	71	69	75	70	54	58	80	79	65	70	61	62	62	68	79	83	75	73	67	66	66	73	79	73	80	82	86	87	72.2
	Minimum	61	61	60	56	46	43	54	41	36	40	60	48	38	54	51	45	39	52	63	57	52	56	53	51	54	58	60	63	64	64	66	53.1
Fayette	Maximum	79	75	69	69	70	74	67	49	57	77	73	60	67	60	56	57	63	74	74	73	72	68	57	63	72	79	71	77	78	82	84	69.2
	Minimum	57	58	57	50	42	36	46	38	33	37	58	46	34	50	46	42	34	47	58	53	48	53	50	49	51	51	59	60	60	62	62	49.3
Hannibal	Maximum	81	76	77	69	70	73	73	54	57	77	79	63	68	61	65	60	67	74	82	70	73	60	69	71	76	80	73	79	82	83	86	72.1
	Minimum	58	60	60	55	48	48	51	36	36	39	54	45	38	54	50	47	42	53	62	56	52	53	52	53	56	59	63	65	65	64	65	52.9
Jefferson City §§	Maximum	80	74	70	62	70	77	78	51	60	80	78	72	67	61	67	65	70	80	82	72	75	64	67	64	72	80	76	82	83	86	88	72.7
	Minimum	57	61	58	57	50	49	44	41	38	38	46	50	42	49	52	55	40	49	55	58	52	52	52	55	52	55	60	61	62	62	65	52.2
Kirksville	Maximum	81	79	71	71	70	76	72	61	60	79	75	63	71	68	62	60	69	71	81	74	72	69	63	65	77	82	76	78	79	82	85	72.3
	Minimum	52	55	57	51	39	39	50	37	32	39	43	45	42	47	50	44	37	49	58	66	49	50	48	50	51	52	60	61	62	62	62	49.6
Louisiana	Maximum	80	80	76	75	68	74	78	72	65	78	80	80	78	76	68	65	70	70	76	82	73	74	68	70	70	72	74	80	82	84	85	74.8
	Minimum	54	52	58	55	46	35	43	35	36	54	48	46	44	55	55	48	58	55	60	58	45	52	52	52	58	56	58	64	60	60	52	51.7
Macon §§	Maximum	83	84	75	74	76	78	75	52	61	80	79	65	72	65	63	71	73	78	83	77	77	74	67	66	82	84	80	80	85	87	90	75.4
	Minimum	55	57	58	51	40	41	51	37	32	38	51	46	36	52	53	47	54	38	52	53	50	51	51	51	53	54	58	60	63	61	62	50.2
Mexico §§	Maximum	82	77	71	69	69	77	71	51	60	78	80	66	71	61	63	64	71	78	85	71	75	70	68	63	75	78	75	82	85	87	90	73.0
	Minimum	55	59	57	52	43	39	46	37	33	35	41	46	36	53	52	45	38	47	51	54	49	52	51	52	52	52	52	60	52	61	62	48.9
St. Catharine	Maximum	78	81	76	70	69	74	73	66	59	77	76	65	66	65	58	62	69	72	80	74	75	70	67	68	78	80	79	79	80	83	87	72.8
	Minimum	59	59	59	51	43	45	50	39	32	39	59	45	36	54	52	44	38	50	61	59	53	53	53	52	54	55	67	62	65	64	65	52.2
St. Louis(1)	Maximum	80	72	74	67	70	72	78	59	58	78	78	69	67	63	68	65	68	75	82	69	72	68	70	71	71	77	78	81	83	84	84	72.6
	Minimum	62	61	61	51	48	50	58	38	39	43	64	50	49	54	51	50	49	53	64	62	58	54	54	53	60	63	63	65	65	66	67	55.6
Unionville	Maximum	82	83	80	70	72	74	70	60	58	78	74	64	67	64	66	57	70	72	82	78	76	76	67	68	82	84	80	80	82	84	86	73.7
	Minimum	55	53	56	48	36	40	50	35	31	40	50	46	34	51	50	42	40	48	56	50	46	50	47	50	50	46	58	56	60	60	60	48.2
Warrenton §§	Maximum	80	74	74	61	70	75	77	54	58	79	81	64	71	63	73	64	70	74	83	69	74	65	68	63	74	78	74	82	82	82	85	72.3
	Minimum	57	59	59	57	45	44	49	36	35	38	49	51	41	50	54	48	42	51	53	60	51	51	52	53	55	58	58	62	62	62	62	51.7
Southeast Lowlands.																																	
Caruthersville	Maximum	86	76	76	62	79	86	86	72	71	83	88	83	83	70	72	72	83	90	90	93	93	86	83	82	74	80	86	86	86	92	97	81.8
	Minimum	58	60	59	58	53	53	53	52	41	40	62	65	49	58	62	54	49	60	63	62	62	59	62	60	60	62	62	64	62	64	72	58.1
Doniphan	Maximum	80	76	62	61	75	79	79	65	65	79	81	75	69	65	70	69	72	83	84	83	83	71	74	73	73	78	79	85	86	87	90	75.8
	Minimum	53	58	57	55	50	46	47	50	37	34	55	58	41	52	60	52	40	56	56	58	52	57	57	58	59	59	61	58	62	62	63	53.6
Jackson	Maximum	82	78	73	73	75	67	80	61	60	72	75	76	71	67	70	68	72	80	82	79	78	72	75	70	73	75	82	85	85	86	88	75.2
	Minimum	51	59	56	55	47	45	44	44	38	32	43	56	38	50	60	51	40	54	58	60	59	54	55	55	60	62	62	62	61	64	61	52.8
Poplar Bluff	Maximum	77	76	61	61	70	75	74	66	60	74	78	77	72	68	69	69	72	84	82	85	81	77	77	74	74	81	83	82	86	88	91	75.6
	Minimum	54	60	57	56	51	51	48	54	46	36	63	62	44	52	61	52	42	57	59	61	54	56	58	58	58	61	64	67	62	63	64	55.8
Cairo, Ill.	Maximum	81	69	67	65	70	72	78	65	61	72	80	74	67	69	68	67	70	80	81	77	73	72	72	69	70	69	78	79	82	84	82	73.0
	Minimum	61	59	59	58	53	54	54	45	42	43	58	53	48	52	55	53	51	58	63	61	60	57	59	59	63	64	63	63	64	66	66	56.9
Ozark Plateau.																																	
Arcadia §§	Maximum	80	66	70	59	72	77	78	55	62	79	75	63	67	63	67	66	70	79	82	78	72	69	69	63	71	72	75	77	80	84	80	71.6
	Minimum	50	58	55	54	46	38	43	51	37	30	48	60	36	41	51	50	37	48	52	61	49	50	54	52	56	58	58	60	57	60	59	50.3
Birchtree	Maximum	71	72	59	64	71	80	75	61	61	74	74	73	71	63	63	65	62	75	73	78	76	68	71	67	70	71	78	80	85	85	85	71.6
	Minimum	52	57	57	52	48	48	54	45	36	36	60	55	42	48	55	50	48	55	60	61	52	53	57	56	59	60	60	62	61	61	62	53.6
Eldon	Maximum	75	74	69	61	66	74	70	67	65	72	78	75	70	68	65	62	66	80	81	80	75	67	59	..	..	80	82	79	83	88	81	[b]72.8
	Minimum	53	58	55	55	44	43	40	40	34	35	53	44	45	50	50	45	38	53	55	49	56	55	52	..	..	53	60	58	58	59	61	[b]50.0
Farmington	Maximum	84	70	74	59	70	74	78	68	57	79	77	68	74	63	65	65	67	83	84	78	75	74	70	63	72	77	75	74	85	86	87	73.4
	Minimum	59	58	56	53	45	44	47	38	37	35	48	53	40	49	57	48	41	52	58	63	55	52	53	53	58	62	63	64	59	62	63	52.4
Hollister	Maximum	80	72	70	64	68	82	68	60	65	80	85	79	70	68	60	70	72	85	82	80	76	70	80	74	77	79	82	85	86	88	91	75.7
	Minimum	55	55	56	40	42	40	48	40	30	34	59	54	38	40	39	45	48	38	40	52	49	55	60	56	60	58	59	66	60	58	59	49.5
Koshkonong	Maximum	79	69	67	60	74	78	75	60	63	79	78	70	71	63	69	66	71	84	..	81	77	..	77	73	75	79	79	82	85	89	89	[b]74.6
	Minimum	57	57	56	52	50	52	54	49	36	42	60	..	44	52	56	50	46	54	..	60	56	..	56	65	60	60	62	60	62	62	62	[c]54.7
Lebanon §§	Maximum	82	69	74	63	77	83	71	51	61	81	81	65	74	64	64	61	68	84	81	[illegible]	79	72	75	72	76	81	82	83	86	88	93	74.8
	Minimum	50	60	55	54	44	39	50	45	31	34	49	50	37	50	52	44	37	37	56	57	51	52	55	55	56	54	58	59	61	58	58	49.9
Mountain Grove §§	Maximum	74	64	69	61	75	80	73	52	59	70	78	60	67	61	66	61	65	80	76	77	73	66	73	71	78	75	78	81	83	85	86	71.5
	Minimum	57	57	55	54	46	41	52	48	33	39	52	56	38	51	50	46	41	50	55	60	51	54	55	57	59	55	60	58	62	60	62	52.1
Neosho	Maximum	83	79	72	68	74	80	80	70	63	82	84	82	70	70	70	65	65	88	90	84	78	79	81	82	76	81	80	85	83	82	92	78.0
	Minimum	62	57	55	54	45	43	47	43	29	41	62	51	41	54	51	48	41	53	61	61	53	58	60	59	61	57	54	57	62	58	60	52.8
Rolla	Maximum	80	76	73	71	76	82	73	65	59	82	77	75	72	68	65	62	67	83	83	78	78	75	70	70	76	74	76	81	80	88	91	75.0
	Minimum	60	58	56	52	46	47	55	38	36	39	63	49	44	52	54	48	41	51	60	59	53	55	53	55	56	61	57	61	60	61	63	53.0
Springfield	Maximum	75	67	69	67	72	78	65	57	58	79	80	65	67	62	62	58	61	80	76	73	72	67	74	71	72	78	77	79	77	81	85	71.1
	Minimum	62	56	55	54	49	52	54	39	34	44	63	49	45	51	48	45	45	51	60	60	54	54	58	58	60	57	59	60	64	60	64	53.7
Southwest Plain.																																	
Amoret	Maximum	80	74	70	70	69	78	77	67	65	83	84	80	72	66	60	65	60	81	80	76	74	75	66	62	74	80	78	80	80	79	82	73.8
	Minimum	51	57	52	50	43	45	48	41	29	42	61	46	37	52	50	42	38	46	57	52	54	58	54	53	52	52	54	58	61	56	60	50.0
Appleton City	Maximum	81	73	74	71	73	79	74	66	63	82	81	..	..	..	..	68	62	82	80	77	76	74	68	65	75	81	79	82	83	82	89	[d]75.6
	Minimum	61	61	56	52	46	46	51	43	34	41	64	..	..	..	..	42	41	50	61	56	54	60	58	56	56	59	58	61	63	62	66	[d]54.0
Clinton	Maximum	85	80	79	77	77	78	73	68	67	90	84	82	80	72	65	67	65	84	84	84	78	78	74	67	78	86	82	88	86	90	93	78.7
	Minimum	60	61	59	52	40	47	44	42	36	44	72	50	42	52	54	44	40	50	62	56	55	61	55	55	56	58	59	62	63	63	65	53.5
Harrisonville §§	Maximum	81	70	71	72	70	79	78	55	66	85	80	69	70	[illegible]	56	66	61	79	82	77	70	71	62	60	71	81	77	79	82	82	86	72.5
	Minimum	56	60	56	50	44	49	48	42	31	37	47	48	42	53	53	43	42	48	50	53	55	59	53	54	52	55	59	60	60	61	65	51.1
Lamar §§	Maximum	84	74	71	69	76	82	72	54	62	81	83	65	72	63	58	62	62	82	78	76	76	75	71	69	72	80	78	83	77	82	88	73.5
	Minimum	51	57	57	53	47	49	50	48	33	41	54	51	43	50	55	46	41	49	49	58	55	59	60	58	58	56	58	61	64	61	63	52.7
Lamonte	Maximum	81	75	73	73	73	80	77	65	62	84	80	67	75	75	60	64	68	84	82	78	75	72	63	61	78	84	83	84	84	88	93	75.7
	Minimum	59	60	58	51	44	42	50	40	31	40	60	47	38	38	50	43	38	49	62	53	52	57	53	53	54	55	58	58	61	61	63	50.9
Marshall	Maximum	81	77	73	..	73	75	..	69	64	81	80	75	72	66	64	72	80	81	74	75	72	..	69	64	74	83	78	82	83	83	90	[c]75.4
	Minimum	57	60	52	..	52	48	..	38	32	36	60	48	34	34	43	38	43	60	54	50	56	..	52	50	53	56	72	60	60	60	60	[c]50.6
Nevada	Maximum	81	74	72	70	73	77	73	69	64	81	84	79	71	65	64	62	62	81	78	74	74	74	66	65	74	79	78	75	80	82	87	73 8
	Minimum	63	57	57	54	46	43	53	50	33	47	64	52	41	56	52	42	40	50	60	56	54	60	59	57	56	55	57	60	60	60	62	53.4
Warrensburg	Maximum	80	75	73	74	72	82	76	65	63	85	80	80	75	72	60	65	60	82	82	78	71	74	67	64	76	82	84	80	84	86	92	75.5
	Minimum	52	55	57	50	42	43	52	42	32	42	60	47	39	55	49	42	38	48	61	53	54	58	54	56	53	55	67	65	64	61	63	51 9
Warsaw	Maximum	84	76	76	72	74	80	77	66	62	84	82	80	74	72	63	62	65	84	82	77	76	73	68	68	75	82	80	83	84	87	90	76.1
	Minimum	60	60	58	53	44	39	45	40	34	36	63	51	36	55	53	45	35	50	63	57	52	60	55	56	56	54	57	59	61	60	62	51.9
Northwest Plateau.																																	
Chillicothe §§	Maximum	81	81	77	70	71	75	74	51	55	81	76	62	70	65	57	59	68	75	80	75	76	73	63	68	80	82	78	80	81	86	89	72.9
	Minimum	57	59	58	51	42	41	47	39	33	41	47	46	33	49	53	42	34	49	53	53	52	55	53	53	56	51	60	61	62	61	64	50.2
Grant City	Maximum	83	81	75	69	71	76	74	69	65	80	80	69	70	70	62	60	70	72	83	84	77	75	71	68	81	84	81	84	84	86	86	75.5
	Minimum	59	57	58	49	44	45	54	34	30	42	54	44	38	52	50	41	40	49	58	53	53	53	51	53	51	52	58	57	62	62	63	50.5
Kansas City	Maximum	80	73	70	68	67	76	75	58	63	81	82	63	70	62	56	62	63	77	80	75	71	71	64	61	76	79	76	79	80	82	85	71.8
	Minimum	64	62	58	52	48	50	54	42	37	51	57	47	46	53	50	45	48	50	62	56	58	60	53	50	56	58	60	61	63	64	66	54.2
Kidder §§	Maximum	82	82	71	69	74	78	75	53	62	84	79	63	74	62	55	61	68	75	82	84	75	74	64	67	82	85	83	82	82	87	88	74.3
	Minimum	55	56	57	50	39	49	50	38	31	36	49	45	36	45	52	40	40	46	51	50	50	55	52	54	52	54	56	59	60	60	61	49.3
Lexington §§	Maximum	82	78	69	71	70	76	77	64	72	78	78	77	70	66	63	65	69	78	81	78	73	70	66	62	73	82	79	80	79	85	88	74.2
	Minimum	60	60	59	51	43	42	49	41	35	43	61	48	38	54	53	44	40	50	63	54	53	58	53	53	54	55	59	61	61	61	63	52.2
Maryville	Maximum	79	79	72	69	70	77	72	58	63	80	78	60	67	60	55	60	68	73	81	78	72	72	65	64	80	82	79	79	79	83	86	72.3
	Minimum	60	59	57	48	43	45	45	33	31	44	54	43	40	50	48	40	42	48	57	51	51	54	51	50	49	52	55	59	62	62	63	50.0
Oregon	Maximum	78	76	70	64	66	73	72	56	60	78	78	58	68	68	58	58	65	73	79	73	69	68	64	58	72	80	79	79	80	82	82	70.5
	Minimum	62	60	56	49	49	47	55	37	31	46	57	44	41	53	48	43	43	49	58	52	51	57	51	51	50	51	58	59	62	62	63	51 5
St. Joseph	Maximum	81	78	70	70	71	77	74	53	63	81	78	60	70	59	55	60	64	77	81	76	72	72	62	61	78	82	81	82	80	85	84	72.2
	Minimum	62	60	56	51	46	43	53	38	35	49	54	44	37	53	49	45	43	49	60	55	56	58	53	52	54	51	58	61	64	63	64	52.1
Trenton	Maximum	79	80	76	68	69	72	71	59	58	77	78	70	66	65	58	59	70	72	80	73	75	71	64	67	78	80	78	79	79	83	88	72.3
	Minimum	56	58	59	51	44	45	52	38	34	43	54	46	38	55	48	45	42	50	60	55	56	55	52	55	53	55	60	61	64	63	66	52.0

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

551.05
UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVII. COLUMBIA, MO., JUNE, 1923. No. 6.

GENERAL SUMMARY.

June, 1923, in Missouri, did not differ materially from the usual in its temperature distribution, but there was somewhat more cloudiness and rain, and a little more wind than is allotted to a normal June. The cloudiness, however, was more in evidence during the first 12 or 15 days. Four well defined relatively cool and warm spells alternated during the month. The most pronounced warm spell lasted from about the 16th to the 26th. This spell was favorable for the agricultural interests, but, because of the rather moist condition of the air along with the excess heat, caused some suffering from the side of personal comfort, particularly in the larger cities. The last four days, though, was an abrupt and marked reversal to cool, pleasant weather.

The first half of the month was rather too wet for best farm results. During the last ten days farm work was mostly favored, and cultivation, growth, and development were satisfactory. At the close of the month wheat harvest was well along, and corn was in good condition.

Local rain, hail, and wind caused some relatively small crop damage.

TEMPERATURE.

The monthly mean temperature for the State, as determined from the records of 69 stations, was 73.5°. The departure from the normal for 66 stations having 10 or more years' record was plus 0.2°. Temperatures were uniformly distributed, no section varying much from another. The first four days were slightly warmer than normal, followed by a slightly cooler week; from the 16th to about the 26th was the warmest spell of the month, the daily excess averaging 4° or 5°. The last four days were relatively cool and pleasant. Afternoon temperatures reached 90° or higher on 9 days, the 17th, 20th, 22d, and 26th being the most marked and general in this respect. Conception with 102°, Bethany with 100°, both on the 25th, and Caruthersville with 100° or higher on 5 days were the only instances of markedly high temperatures. Minimum temperatures were below 50° generally on the 29th, the lowest, 45°, being recorded at six stations. This value is uncommon for so late in June, although even a cooler spell prevailed in the last 10 days of June, 1902.

PRECIPITATION.

The average precipitation for the State, 86 stations reporting, was 5.48 inches. The departure from the normal for 80 stations having 10 or more years' record was plus 1.02 inches. The moisture was quite evenly distributed, the wettest section being in the southwestern plain. Rains were more or less general from the 2d to the 7th, 9th to 12th, 15th, and 27th to 29th. As a rule the heaviest falls occurred on the 10-11th, and 27-28th, though some heavy amounts fell in the northwest and north-central sections on the 1st-2d. The greatest monthly precipitation was 9.36 inches at Nevada. The greatest amount in any 24 consecutive hours was 4.42 inches, at Nevada on the 8-9th. Other excessive amounts fell as follows: Avalon, 3.50 inches, on the 1st; Fayette, 3.17 inches, Clifton Hill, 2.70 inches, Waverly, 4.03 inches, on the 2d; Lockwood, 3.02 inches, on the 9th, Amoret, 4.35 inches, Warrensburg, 3.27 inches, on the 11th; Liberty, 3.06 inches, on the 15th; Boonville, 2.50 inches, Mexico, 2.65 inches, on the 27th.

WIND.

The prevailing winds were from the south. The average wind movement, based upon the records of 8 stations equipped with anemometers, was 5,782 miles, 7.9 miles per hour, and slightly more than normal. There were some strong local winds on the 4th, 6th, 15th, 18th, and 27th.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well placed stations equipped with sunshine recorders reporting, was 305 or about 68 per cent of the possible, and about 4 per cent less than normal. June in 1922 gave 77 per cent of the possible.

MISCELLANEOUS PHENOMENA.

Hail.---At Clifton Hill, and Springfield, on the 4th; Steffenville, 5th; Nevada, 8th; Hannibal, Mountain Grove, Warrensburg, 27th; Greenville, Liberty, 28th; Kansas City, 30th.

Halos, solar.---2d, 7th, 8th, 16th, 17th, 19th, 26th, 27th, and 30th.

Thunderstorms.---Every day from 1st to 11th, mostly thundershowers, but more or less general on 4th, 5th, and 6th, on 14th, 15th, and 17th to 20th, 24th to 28th, and 30th, with most general on 27th.

SPECIAL STORM NOTES.

Nevada.---During the evening and early night of the 8th a severe rain and hail storm occurred at Nevada, Mo. The rain began about 7.20 p. m. and by about 9 p. m. 3.90 inches had fallen. Hail fell from about 7.45 p. m. to 8.10 p. m. and varied in size "from that of a small pea to that of a hen's egg." Automobiles suffered, tops being pierced and windshields broken. Greenhouses were damaged, and other glass broken. Shade and some fruit trees were nearly stripped of leaves and fruit. Swollen streams flooded some lowlands. The storm was confined to the vicinity, extending from about one mile west to about the same distance east. The hail fell within the city proper. Loss considerable, but no estimate made.

Jackson.---A terrific windstorm at 9 p. m. the 27th. There was considerable damage to corn and fruit.

Lockwood.---A bad storm of thunder and wind occurred on the 28th; considerable damage nearby, and some in town.

Liberty.---On the 28th hail did a great deal of damage to crops in some parts of this county.

Tarkio.---During the night of the 27th, a severe hail and wind storm badly damaged crops nine miles northwest.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.92	86	71	283	63	4,390	6.1	27	w.	6
Hannibal	29.93	82	..	...	..	5,613	7.8	48	sw.	4
Kansas City	29.90	83	64	345	77	6,608	9.2	52	ne.	15
St. Joseph	29.89	84	60	306	68	5,541	7.7	43	nw.	27
St. Louis	29.94	80	63	327	73	8,013	11.1	38	sw	18
Springfield	29.94	90	79	258	59	6,572	9.1	52	nw.	27
Cairo, Ill	29.95	84	66	...	..	4,986	6.9	44	sw	6
Keokuk, Iowa	29.94	77	62	312	70	4,529	6.3	29	sw.	4

COMPARATIVE DATA FOR JUNE.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	72.6	−0.5	103	37	6.20	+1.26	......	0	7	....	....	....
1889	70.7	−2.4	100	38	4.66	−0.28	......	0	6	....	....	....
1890	77.2	+4.1	105	50	2.59	−2.35	......	0	6	....	....	....
1891	73.3	+0.2	103	46	6.94	+2.00	......	0	13	....	....	....
1892	74.5	+1.4	100	38	3.18	−1.76	4.25	0	7	15	9	6
1893	72.6	−0.5	98	42	4.61	−0.31	3.60	0	9	12	12	6
1894	74.5	+1.4	105	30	3.92	−1.02	3.48	0	7	16	11	3
1895	73.2	+0.1	100	42	5.77	+0.83	3.85	0	10	12	11	7
1896	72.5	−0.6	101	45	8.32	+3.38	5.60	0	9	12	11	7
1897	73.6	+0.5	102	38	6.18	+1.24	6.40	0	12	9	14	7
1898	75.3	+2.2	100	42	5.88	+0.94	8.15	0	9	13	12	5
1899	74.3	+1.2	101	42	3.87	−1.07	4.48	0	9	15	10	5
1900	73.3	+0.2	103	44	4.79	−0.15	5.06	0	10	12	12	6
1901	77.9	+4 8	110	40	2.13	−2.81	2.99	0	6	18	10	2
1902	70.9	−2.2	100	37	6.57	+1.63	6.08	0	12	11	10	9
1903	67.3	−4.2	95	36	3.25	−1.69	4.90	0	9	15	9	6
1904	70.5	−2.6	93	45	6.42	+1.58	5.41	0	11	12	12	6
1905	75.2	+2.1	103	42	3.09	−1.85	4.80	0	7	15	10	5
1906	72.7	−0.4	101	40	4.95	+0.01	4.07	0	10	15	9	6
1907	71.2	−1.9	97	40	5.84	+0.90	3.90	0	11	14	10	6
1908	72.3	−0.8	98	43	6.30	+1.36	5.30	0	11	13	10	7
1909	73.9	+0.8	98	49	5.21	+0.27	4.12	0	11	11	13	6
1910	70.4	−2.7	99	38	3.92	−1.02	3.70	0	8	16	7	7
1911	78.9	+5.8	112	43	1.78	−3.16	2.07	0	6	18	8	4
1912	69.5	−3.6	100	42	4.78	−0.16	5.60	0	9	14	8	8
1913	75.4	+2 6	107	33	2.57	−2.22	3.05	0	6	18	8	4
1914	79.3	+6.2	106	43	2.37	−2.29	3.50	0	5	18	7	5
1915	70.8	−2.5	98	38	6.51	+1.87	4.86	0	12	11	10	9
1916	70.0	−3.2	100	42	6.99	+1.17	6.75	0	10	14	9	7
1917	71.0	−2 3	103	35	3.78	−0.59	4.19	0	8	19	7	4
1918	77.2	+3.9	110	48	3.15	−1.36	4.28	0	7	17	8	5
1919	75.0	+1.9	104	44	5.59	+1.11	4.21	0	11	14	10	6
1920	72.7	−0.5	104	41	2.35	−2.16	3.74	0	6	18	7	5
1921	76.6	+3.4	105	44	5.71	+1.15	4.14	0	12	12	10	8
1922	76.5	+3.1	108	43	1.66	−2.89	2.30	0	5	19	8	3
1923	73.5	+0.2	103	45	5.48	+1.02	4.42	0	11	14	9	7
......	.....	......	....	....	.....	....	......	....	....	....	....	....
......	.....	......	....	....	.....	....	......	....	....	....	....	....

Climatological Data for June, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	43	74.8	+ 1.6	96	24†	52	29	29	7.55	+2.36	2.30	0	13	20	0	10	se.	O. K. Benecke
Clifton Hill	Randolph	731	24	72.0	− 1.0	93	23	50	29	27	7.34	+3.00	2.70	0	13	13	8	9	......	Dr. A. J. Bradsher
Columbia	Boone	748	33	72.9	− 1.6	93	23	51	29	26	6.31	+1.93	2.06	0	12	8	13	9	se.	U. S. Weather Bureau
Downing	Schuyler	878	13	73.2	......	95	23†	50	29	29	4.71	+0.33	1.01	0	13	19	6	5	s.	E. E. St. Clair
Fayette	Howard	661	43	70.4	− 2.9	92	23†	48	29	26	7.51	+2.97	3.17	0	16	..	..	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	35	73.0	− 0.6	94	23	49	29†	28	4.34	+0.14	1.09	0	10	14	11	5	sw.	Westminster College
Gorin	Scotland	700	36	....	......	..	..	..	..	..	3.92	+0.01	1.21	0	13	10	7	13	se.	I. S. McCollom
Hannibal	Marion	534	40	73.7	+ 1.2	96	23	51	29	27	5.25	+1.73	2.43	0	11	11	13	6	s.	U. S. Weather Bureau
Jefferson City	Cole	557	40	73.9	− 0.1	95	23	53	29†	24	6.47	+2.45	1.75	0	11	23	0	7	s.	Miss Emma Swift
Kirksville	Adair	969	40	71.8	− 0.4	93	24†	49	29	28	5.09	+0.82	1.18	0	11	16	2	12	s.	Prof. J. S. Stokes
Louisiana	Pike	469	42	74.7	+ 2.6	98	24	48	29†	33	3.85	−0.10	1.48	0	9	23	3	4	s.	J. T. Farrell
Macon	Macon	875	30	71.9	− 1.1	95	24	48	29	30	4.94	+0.53	1.15	0	11	18	6	6	sw.	W. C. Brown
Mexico	Audrain	800	45	72.9	− 0.8	97	23	48	29	28	6.59	+1.81	2.65	0	9	21	0	9	se.	Mrs. Abbie Snoddy
Palmyra	Marion	652	24	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	.....	W. B. Markell
St. Catharine	Linn	800	13	72.4	− 0.1	93	23†	49	29	25	5.30	+0.52	1.25	0	14	13	13	4	s.	L. D. Baker
St. Charles	St. Charles	456	45	74.1	− 0.1	97	22	50	29†	28	5.36	+1.40	1.33	0	9	11	11	8	s	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	75.2	+ 0.4	95	23	55	29	22	4.33	−0.14	0.81	0	10	10	11	9	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	74.4	− 0.5	93	22†	54	29	20	3.11	−0.65	1.30	0	9	16	8	6	s.	St. Louis University
Shelbina	Shelby	779	30	....	......	..	..	..	..	..	7.17	+2.46	2.00	0	13	..	..	..	.....	W. M. Nolin
Steffenville	Lewis	650	30	74.4	+ 1.2	99	23	48	29	28	4.59	+0.49	1.60	0	12	11	12	7	s.	Frank Hall
Unionville	Putnam	1,062	30	72.0	+ 0.2	96	24†	45	29	30	4.10	−0.58	1.55	0	10	14	4	12	s.	Geo. W. Davis
Warrenton	Warren	816	41	73.6	0.0	96	23	49	29	25	5.50	+1.54	1.59	0	10	19	7	4	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	50	74.0	+ 1.5	96	23	51	29	24	3.17	−1.18	1.45	0	12	8	16	6	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	73.2	0.0	99	23	45	29	33	5.30	+0.99	3.17	0	11	15	7	8	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	32	80 1	+ 2.3	103	22	55	30	31	6.66	+2.68	1 60	0	7	20	5	5	e.	H. E. Averill
Doniphan	Ripley	344	19	75.7	+ 0.9	96	26†	51	30	29	6.22	+1.84	1.90	0	9	15	6	9	s.	W.W. Martin
Jackson	Cape Girardeau	428	33	75.6	+ 1.5	96	22	47	29	30	3.63	−0.66	0.75	0	12	10	15	5	s.	John G. Putz
Marble Hill	Bollinger	470	29	75.5	+ 1.6	95	22	47	30	32	3.66	−0.51	0.82	0	8	18	7	5	s.	R.A. DeWitt
Parma	New Madrid	281	2	....	......	..	..	..	..	..	4.47	......	1.20	0	8	..	..	..	......	J.E. Pearce
Patton (near)	Bollinger	500	13	....	......	..	..	..	..	..	4.88	+1.21	1.75	0	5	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	329	19	76.0	+ 0.6	97	22	52	30	28	7.63	+2.61	2.82	0	11	16	12	2	s.	Rev. J. A. Gallaher
Vanduser	Scott	304	2	....	......	..	..	..	..	..	3.64	−0.24	0.98	0	8	..	..	..	.....	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	51	75.4	− 0.9	93	26	54	29	25	3.30	−1.01	0.87	0	10	8	11	11	se.	U. S. Weather Bureau
Section means and	extremes	....	..	76.4	+ 1.0	103	22	47	29†	32	4.90	+0.74	2.82	0	9	15	9	6	s.	
Ozark Plateau.																				
Arcadia	Iron	926	45	72.0	0.0	92	26	45	30	29	3.14	−1.44	0.75	0	10	10	8	12	w.	Arcadia College
Birchtree	Shannon	1,000	29	72.8[b]	+ 0.1	90	22†	50	30	24	5.19	+0.66	2.00	0	8	16[b]	8[b]	4[b]	s.	V. H. Kirkendall
Bolivar	Polk	1,071	36	73.6	+ 0.8	92	23†	50	29	28	7.50	+2.48	2.40	0	14	21	4	5	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	24	66.0[a]	− 7.0	86	27	45	29	29	7.24	+1.97	1.89	0	10	15[b]	8[b]	5[b]	sw.	H. E. Dean
Eldon	Miller	934	24	73.6	+ 0.4	96	23	48	30	31	3.86	−0.45	1.17	0	10	4	18	8	sw.	E. H. Shepherd
Farmington	St. Francois	918	26	74 7	+ 2.1	97	24	47	30	30	2.78	−1.85	0.62	0	11	13	14	3	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	71.2	− 1.6	95	21	45	29	30	7.82	+3.52	2.77	0	11	14	8	8	sw.	A. C. Leach
Goodland	Iron	1,000	30	71.8	− 0.3	93	26	45	29†	30	4.69	+0.59	2.35	0	10	17	6	7	s	F. M Adams
Greenville.	Wayne	381	1	74.4	......	95	26	50	29†	30	5.38	......	1.64	0	11	19	6	5	se.	J. J. Amen.
Hollister	Taney	735	20	73.4	+ 2.3	95	23†	48	29	34	6.00	+1.99	1.50	0	7	15	6	9	sw.	W. P. Chapmann
Houston	Texas	1,280	31	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	Walter T. Beard
Koshkonong	Oregon	958	22	74.4	+ 0.1	92	23	51	29	25	4.56	+0.08	1.47	0	12	4	16	10	sw.	R. M. Hitt
Lebanon	Laclede	1,265	36	73.6	+ 0.5	95	23†	45	29	32	4.12	−0.81	1.03	0	14	18	2	10	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	27	74.2	+ 0.2	93	27	52	29	24	5.69	+0.89	3.02	0	8	17	5	8	se.	C. S. Crow
Mountain Grove	Wright	1,463	26	72.2	+ 0.6	92	26	47	29	26	4.12	−0.44	1.04	0	11	13	11	6	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	40	75.5	+ 1.6	94	23	49	29	42	8.20	+2.77	1.82	0	13	14	14	2	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	39	74.4	+ 1.6	94	22	51	29	27	4.85	+0.72	1.07	0	12	17	8	5	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	19	73.1	+ 0.6	90	23	50	29	30	4.05	+0.52	1.07	0	9	10	17	3	sw.	Floyd E. Fawver
Seymour	Webster	1,642	17	71.8	− 0.2	90	26	46	29	31	5.05	+0.42	1.25	0	10	10	15	5	se.	Ira H. Hailey
Springfield	Greene	1,350	45	72.8	+ 0.5	91	27	53	29	29	6.10	+0.91	1.98	0	13	15	10	5	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	72.9	+ 1.0	97	24	45	29†	42	5.16	+0.59	3.02	0	11	14	10	6	sw.	
Southwest Plain.																				
Amoret	Bates	831	17	72.8	− 0.7	94	25	49	29	26	8.30	+4.44	4.35	0	10	15	8	7	sw.	Darby Fruit Farm
Appleton City	St. Clair	853	31	74.4	− 0.4	93	25	54	29	23	7.47	+2.48	1.52	0	15	11	16	3	sw.	W. G. Bigelow
Clinton	Henry	765	36	75.8	+ 2.4	99	25	52	30	27	5.50	+0.77	1.55	0	15	15	8	7	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	72.8	− 0.6	93	25	51	29	25	5.71	+1.25	1.31	0	15	2	3	25	s	John H. Patterson
Lamar	Barton	980	42	75.2	+ 0.8	95	23	53	29	26	6.15	+1.19	1.88	0	9	15	8	7	sw.	Jesse A. Mann
Lamonte	Pettis	867	36	74.3	0.0	96	23†	50	29	29	9.11	+4.62	2.50	0	13	15	9	6	se.	J. E. Wheeler
Marshall	Saline	779	34	73.2[a]	− 0.7	94	24	52	29	27	9.03	+4.71	2 50	0	11	11[a]	11[a]	7[a]	se.	Dr. W. H. Black
Nevada	Vernon	862	31	73.5	− 0.1	91	23	52	29	24	9.36	+4.25	4.42	0	12	15	10	5	s.	George A. Kaupp
Warrensburg	Johnson	878	43	75.0	+ 0.8	95	25	50	29	29	8.02	+3.26	3.27	0	14	8	16	6	se.	E. A. Markey.
Warsaw	Benton	687	28	74.5	+ 0.8	93	23†	49	29	27	6.25	+1.08	1.08	0	16	6	22	2	se.	J. R. Smith, M. D.
Section means and	extremes	.....	..	74.1	+ 0.3	99	25	49	29	29	7.31	+2.60	4.42	0	13	11	11	8	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	34	73.8	+ 0.2	94	25	55	10†	22	7.90	+3.54	3.50	0	9	11	12	7	sw.	F. G. Ashbaugh
Bethany	Harrison	916	32	72.8	+ 0.4	100	25	46	29	34	5.45	+0.97	1.19	0	13	14	6	10	sw.	Owen Ross
Chillicothe	Livingston	779	17	72.6	− 1.6	96	24†	49	28†	26	3.90	−1.17	1.15	0	7	18	5	7	s.	Wm. J. Olenhouse
Conception	Nodaway	980	39	73.1	+ 1.5	102	25	50	29	30	4.89	+0.34	1.54	0	11	7	18	5	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	11	70.8[d]	......	89	24†	50	29	30	3.73	−1.38	0.80	0	11	19	4	7	w.	Fred L. Stiff
Grant City	Worth	1,134	31	73.8	+ 2 5	99	25†	50	29	39	7.27	+2.72	2.56	0	11	11	15	4	s.	B. F. Locke
Kansas City	Jackson	963	50	74.1	+ 1.1	96	25	56	29	21	6.51	+1.85	2.52	0	12	10	16	4	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	36	72.6	+ 0.2	99	25	51	29	28	3.16	−1.20	0.75	0	8	12	8	10	se.	Linn Terry
Lexington	Lafayette	688	41	73.6	+ 0.8	95	25	52	30	29	4.41	−0.36	1.30	0	12	14	12	4	s.	Edwin G. Loomis
Liberty	Clay	859	33	72.2[b]	− 1.8	97	25	52	29	29	8.84	+4.14	3.06	0	11	11[b]	13[b]	4[b]	se.	James H. Harris
Maryville	Nodaway	1,169	29	72.2	+ 2.6	97	25	49	29	25	4.11	−0.52	1.45	0	12	20	1	9	s	J. R. Brink
Oregon	Holt	1,048	67	72.2	− 0.1	95	25	50	29	24	4.67	−0.06	1.26	0	11	14	5	11	s.	Tom Curry
St. Joseph	Buchanan	967	50	74.2	− 0.1	98	25	53	29	26	3.96	−0.66	0.89	0	12	12	12	6	se.	U. S. Weather Bureau
Tarkio	Atchison	916	30	71.7	− 1.0	98	25	47	29	28	3.73	−1.08	1.64	0	9	3	16	11	se.	Albert Volker
Trenton	Grundy	822	28	73.2	+ 0.6	95	25	50	29	22	8.07	+3.77	2.17	0	13	14	12	4	se.	W. H. Estes
Section means and	extremes	.....	..	72.8	+ 0.4	102	25	46	29	39	5.37	+0.73	3.50	0	11	13	10	7	s.	
State means and	extremes	.....	..	73.5	+ 0.2	103	22	45	29†	42	5.48	+1.02	4.42	0	11	14	9	7	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b], represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5.

Correction for Climatological Data for May, 1923: Warsaw, partly cloudy days, 20; cloudy days, 6.

Daily Precipitation for June, 1923.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri		.85	.72	.05	.20		.52		.03	.28	1.00	.43			1.95	.06					.12						2.50	.12	.01			8.84
Brunswick‖	Grand		2.30	.12		.70		.20		.05	1 25	.17	.20			.30						.43	.05					1.60	.18				7.55
Clifton Hill	Chariton		2.70	.41	.80		.01			.96	.10	.23			.43	.13					.07							.88	.52		.10		7.34
Columbia***	Missouri		2.06	.02	.16		.28			.25	.72	.68			.05	.42			T.	.02								1.63			.02		6.31
Downing	Mississippi	.24	.84							.12	.95	.16	.03		.08	.35					.05						.23	1.01	.35		.30		4.71
Fayette‖‖	Missouri		3.17	.11	.31		.19		.03	.61	.13	.55	.02		.21	.32			.05	.08							T.	.97	.61		.15		7.51
Fulton	do		1.09		.01	.17	.48			.24	.64	.80				.27				.05								.59					4.34
Gorin	Mississippi	.08	.10		.15		.03		.03		1.21	.19			.07	.45											.04	1.03	.48		.06		3.92
Hannibal***	do	.06	.25		1.47		T.			.08	.57	.09			.03	.24			T.	T.	T.							2.38	.06		.02		5.25
Hermann‖	Missouri			1.03				.16			.30	.04	1.10			.76	.13											1.10	.10				4.72
Jefferson City‖	do		.15	.70				.18			1.75	1.20	.25			1.35	.15				.45							.24	.05				6.47
Kirksville	Mississippi		.85	.30	.13		.08			.34	.66	.15			.29	1.18												1.03			.08		5.09
Louisiana	do			.03		.02	.26				.24	.15	.61			.52												1.48	.54				3.85
Macon ‖	Chariton		.41	.96	.11	.06		.04			1.15	.21	.24			.96					T.							.74	.06				4.94
Mexico ‖	Mississippi			.34				.25			1.25	.68	.66			.53				.13								2.65	.10				6.59
Pacific‖	Meramec			1.19	.12						.53	.04	1.07	T.		.25	.35		T.	1.16								.68	.07				5.46
Palmyra‖	Mississippi																																....
St. Catharine	Grand	.01	.85	.07	.04		.63			.42	.80	.06			.20	.32					.22							1.25	.21		.22		5.30
St. Charles	Missouri		.51	.10			T.				.73	.57	.92			1.33			.05									1.07	.08				5.36
St. Louis (1)***	Mississippi	.81	.49	.36			T.				.21	.66	.08			.42			.67									.62	.01				4.33
St. Louis (2)	do	.12	.16	.12		T.	T.				.07	1.30	.11			.48			.05									.70					3.11
Shelbina	do	2.00	.80	.15	.27					.20	.60	.18	.04		.15	.90												1.10	.48		.30		7.17
Steffenville	do	.07	.25	.35	.17					.10	.60		.07			.33					.05							75	1.60		.25		4.59
Union‖	Meramec			.94	.06			.12			.80	.20	1.35			.60	.37											.78	.10				5.32
Unionville	Chariton		.15			T.	.10			.30	1.20	.35			.15	.95												.85	.15		.10		4.30
Valley Park‖‖	Meramec	T.	T.	.75	.47		.52	T.			.24	.05	1.45			.07	.38			.98								.82	.05	T.			5.78
Warrenton ‖	Mississippi			1.59	.11	.02		.04			.36	.22	1.22			.66	.18			T.								1.10	T.				5.50
Keokuk, Ia.***	do		.08	.57	.37	T.	.02			.07	.40	.04			.01				T.		T.				.08	.08		1.41	.04				3.17
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi			.30			.20	.15			.30	.10					.51												.56				2.12
Caruthersville	do	T.	T.			T.	.16	.20			1.60	1.60	.05			1.55								T.					1.50				6.66
Doniphan	Black	T.		T.		T.	.25	.80			1.35	.30		T.		1.90	.30	.50							.02				.80				6.22
Jackson	Mississippi	.15	.16	.03			.40	.02			.59	.63	.01			.52			.75									.01	.36				3.63
Marble Hill	do	.82	.45				.40				.42	.44	.10			.65		.38															3.66
New Madrid‖	do	.20		.25			.15	.35			.50	.34	.55				.23	.57											.88				4.02
Parma	St. Francis			.18			.30	.25			1.20		.49			.30		.55											1.20				4.47
Patton (near)	Mississippi		1.75			.40					.95	1.00				.78																	4.88
Poplar Bluff	Black	.07	.73				.70	.29	.03		.80	.56				.64	.06	2.82											.93				7.63
Vanduser	Mississippi	.18						35			.54	.59				.45		.08	.47										.98				3.64
Cairo, Ill.***	do	T.	.03			T.	.32	.01			.87	.24			T.	.28	T.	.70									.06	.78	.01				3.30
Ozark Plateau.																																	
Arcadia ‖	St. Francis	.12		.68	T.		.16	.03			T.	.12	.42				.75	.53		T.								.02	.31				3.14
Birchtree	Black	.30	.90	.68			.33				.50					2.00			.22										.26				5.19
Bolivar	Osage		.62	.16	.15		.55	.07		1.06	.10	.46	T.		T.		.58	1.02	.03	.17								.13	2.40				7.50
Dean	Neosho			.08	.92	1.08				.81	.11	.32			1.89	.14	.15			T.	T.								1.74				7.24
Eldon	Missouri		.40	.15		.22					.96		.06		.12	1.17				.14							.02			.62			3.86
Farmington	St. Francis	T.	.60	.04			.01	.03			.11	.54	.08			.62			.34									.02	.39				2.78
Gano	Meramec		.38	1.43	.10		.12				.32	.28	.05			2.77								.06				1.61	.70		T.		7.82
Goodland	Black	.13	2.35	.10			.07				.29	.35	.05			.72			.05										.58				4.69
Greenville	St. Francis	.04	.15	.03			.30				.74	.24	.18			.88		1.17										.01	1.64				5.38
Hollister	White		.80	.20			1.00			.50	.60								1.50									1.40					6.00
Houston	Gasconade																																....
Jerome ‖	do	.04		.43	.70			.46			.71	.10	.43	T.			.51	.04	.39	.06							T.	.10	.58	.09			4.64
Koshkonong	Black	.06	.05	.57			.31	1.00		.03	1.47	.08				.55		.04							.04				.36				4.56
Lebanon ‖	Osage	.43	.01	.40	.17			.31			.71	.24	.18	.03			.05		.45								T.	.09	1.03	.02			4.12
Lockwood	do		.07	.28		T.	1.05	.11		3 02	.20				.16					T.									.80				5.69
Mountain Grove‖	White	T.		1.04	.58			.28			.67	.47	.18	T.			.08	.46	.03	T.									.31	.02			4.12
Neosho	Neosho	T.		1.59		.33	.33	.92		1.82	.22	.45			1.28	.03	.10	.04			T.	T.			.39				.70		T.		8.20
Rolla	Meramec		.56	.10			.03			.81	.17	.54			1.07	.90	.30										.05	.23	.09		T.		4.85
Seligman	Neosho			.55		.15	.63	.49		.32		T.			.58		.20			.06									1.07				4.05
Seymour	White	.08	.66	.55			.45			.30	1.25	.12	T.			.04	T.	.72											.88		T.		5.05
Springfield***	do		.28		1.42		.61	T		.34	.47	.08	.02		.06			.02		.07				T.			.02	1.98			.73		6.10
Steelville‖	Meramec		.14	.61	.21	.19		.04			.19	.24	.61				1.07												.47				3.77
Tuscumbia ‖	Osage			.26		.08	.06	.56		T.	.74	.36	.26			.30	.08		.07	T.	.03							.02					2.82
Southwest Plain.																																	
Amoret	Osage	T.	.25		.11	T	.58		T.	1.81	.12	4.35			.26		.08				T.							.38			.36		8.30
Appleton City	do		.11			.70	.61			1.52	.27	.82	.01		.04	.05	.35	.08			.01	.03						1.37			1.50		7.47
Clinton	do		.22		.02		.90			1.05	.34	1.55	.02		.02	.05	.11	.22		.02							.18	.35			.45		5.50
Harrisonville‖	do	.51	.04	.26	.01	.56		.27		.72	1.31	.89	.02			.30		.43										.35	.03		.01		5.71
Lamar ‖	Neosho			.77				.70		1.88	1.49	.45	T.			.12											.02	.05	.67		T.		6.15
Lamonte	Missouri		.88	T.			.50			.55	.64	1.85	.05		.10	1.40		T.	.10		T.						.04	2.50	.20		.30		9.11
Marshall	do		2.50			.85	.25			.30	.50	.85		.20		1.70	T.	T.	T.									1.30	.20		.38		9.03
Nevada	Osage		.45	.07		T.	1.10			4.42	.53	.43	.02		.22		.11	.26			1.10						.65				T.		9.36
Osceola‖	do	.71	.25	.40				.51		.23	.92	.61	.14				.35	.25	.15	.08								.25	2.00				6.85
Warrensburg	Missouri	T.	.11				.05			.80	.24	3.27	.03		.14	1.17	.08	.09			.06							1.38	.41		.19		8.02
Warsaw	Osage	.08	.55	T.		T.	.73			1.08	30	.41	.05			.05	.59	.05	T.	.40	1.05						.42	.23	.08		.18		6.25
Waverly ‖	Missouri	T.	4.03	.15		.59		T.		T.	1.00	.43	.09			1.26			T.									.57	.03		T.		8.15
Northwest Plateau.																																	
Avalon	Grand	3.50		.40							.50	1.00	.10	.40													.75	.50			.75		7.90
Bethany	do		1.19			T.			.56		.06	.07	T.		.18	.58			.10	.03		.02				.42		.92	.26		1.06		5.45
Chillicothe‖‖	do		.94	T.	T.						1.15	.10	.14			.55												.62	.40		T.		3.90
Conception	Missouri	.83	.41			T.	.08		T.	.75	.03	.18			.21	T.			.03							T.	T.	1.54	.25		.58		4.89
Edgerton	do		.38	T.			.01			.80	.01	.45	.01		.46	.19			T.		T	T.						.77	.33		.32		3.73
Grant City	Grand		.32			T.				1.06	.14	.09			.38	.22		T.	.29	T.						2.56		1.22	.15		.84		7.27
Kansas City***	Missouri	T.	T.		.23	.05	.04		.48	.62	.54	.32	.02		1.42	1.10	T.				T	T.					T.	.77			.92		6.51
Kidder ‖	Grand		.50							.03	.53		.15			.68	.02											.75	.50				3.16
Lexington	Missouri		.25			.05				.20	1.20	.38	.13			1.30			.17				.02					.56	.10		.05		4.41
Liberty	do			.29		.89	.05			.96	.08	.56			1.12	3.06					T.							.60	.87		.36		8.84
Maryville	do		.32				.43	.01		.54	.43	.02	.37			.22				.13							.11	1.45	.08				4.11
Oregon	do	.25				.32	.07			1.26		.03			.20	.04			.03							1.17		1.05			.25		4.67
St. Joseph***	do	.17		T.		.04	.12		.39	.50	.02	.32			.88	.01										.41		.79			.31		3.96
Tarkio	do	.31		T.			.34			.75					.26				.05	.10		.07						1.64			.21		3.73
Trenton	Grand	T.	2.12			.02	.03			.42	.31	.11			.16	1.46			.05			.04				T.		2.17	.28		.90		8.07

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded.

Daily Temperatures for June, 1923.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	88	85	87	90	90	86	77	79	68	66	64	82	86	83	88	88	91	93	92	94	91	93	95	96	96	92	78	73	77	66	..	84.5
	Minimum	64	67	66	69	64	67	64	57	62	59	59	58	57	61	65	65	67	69	72	74	72	69	72	72	74	75	61	62	52	54	..	65.0
Columbia	Maximum	87	75	86	87	85	85	77	76	69	66	62	76	82	82	81	83	88	90	89	89	90	91	93	92	92	86	75	68	72	71	..	81.5
	Minimum	66	66	64	64	64	65	61	57	63	60	59	59	56	62	65	68	67	69	73	71	71	69	70	72	72	73	60	55	51	56	..	64.3
Fayette	Maximum	80	73	82	82	86	92	74	74	64	64	58	77	80	78	82	83	86	86	87	87	89	89	92	92	92	90	75	68	70	63	..	79.8
	Minimum	60	65	60	62	60	62	58	52	57	57	55	55	55	58	61	62	64	65	68	70	67	65	67	68	70	72	60	60	48	51	..	61.1
Hannibal	Maximum	82	79	88	87	88	86	78	75	70	65	63	79	83	85	83	85	89	92	91	91	92	94	96	95	94	86	72	68	71	75	..	82.7
	Minimum	69	68	65	65	64	66	64	62	58	59	58	61	59	60	66	67	67	71	74	74	72	69	69	71	74	72	60	54	51	52	..	64.7
Jefferson City §§	Maximum	86	79	87	87	89	86	82	78	70	69	62	73	84	82	76	82	91	90	88	90	90	93	95	93	90	89	81	70	75	75	..	82.7
	Minimum	64	69	63	66	65	66	64	58	63	60	61	58	60	62	64	64	66	67	73	69	69	69	70	71	72	76	75	63	53	53	..	65.1
Kirksville	Maximum	85	78	86	85	86	83	74	73	66	61	59	80	82	80	83	84	84	89	89	91	89	91	92	93	93	86	81	70	73	70	..	81.2
	Minimum	63	66	65	68	64	64	61	52	57	55	56	57	55	58	64	64	65	66	66	72	69	63	69	71	71	66	55	65	49	52	..	62.3
Louisiana	Maximum	85	82	87	87	90	92	90	85	75	73	65	75	82	86	86	85	90	93	93	93	93	95	97	98	96	95	90	85	70	75	..	86 3
	Minimum	68	67	64	68	62	65	64	52	60	60	58	60	54	55	63	60	64	70	72	70	68	75	67	68	70	76	60	58	48	48	..	63.1
Macon§§	Maximum	83	79	88	71	90	77	76	79	60	63	62	81	86	83	88	87	88	91	80	94	93	92	94	95	90	87	78	66	71	69	..	81.4
	Minimum	63	65	63	66	63	65	61	55	58	57	56	56	56	61	63	63	63	66	70	71	68	68	69	69	73	69	58	60	48	50	..	62.4
Mexico§§	Maximum	85	84	88	88	90	89	81	80	71	65	60	71	83	85	83	84	92	93	92	91	93	94	97	94	93	89	75	68	69	78	..	83.5
	Minimum	64	66	62	65	63	66	63	53	59	57	56	56	55	59	62	62	64	67	71	68	68	66	67	70	71	74	58	58	48	51	..	62.3
St. Catharine	Maximum	86	81	83	85	87	84	73	74	70	63	62	77	82	80	81	83	85	89	87	91	87	87	93	93	92	86	76	72	71	67	..	80.9
	Minimum	67	66	65	67	64	67	62	66	56	54	57	57	57	62	62	65	67	67	70	71	71	69	72	71	73	70	58	61	49	55	..	63.9
St. Louis(1)	Maximum	78	83	87	87	88	85	84	76	73	66	66	77	82	86	83	82	88	90	89	91	93	94	95	92	90	91	77	71	72	76	..	83.1
	Minimum	67	68	65	69	72	68	65	61	60	60	61	60	64	68	67	67	71	69	72	73	76	78	77	76	74	77	60	60	55	59	..	67.3
Unionville	Maximum	83	81	88	86	86	86	80	75	70	60	61	80	82	81	86	86	88	90	91	92	90	91	95	96	96	91	80	73	75	70	..	83.0
	Minimum	62	63	66	66	62	62	56	54	55	54	55	56	54	58	63	64	64	68	68	70	67	66	70	70	72	61	56	55	45	50	..	61.1
Warrenton§§	Maximum	82	85	89	86	89	86	82	77	74	67	62	76	83	86	84	84	90	92	91	91	92	94	96	95	92	91	72	69	72	77	..	83.5
	Minimum	64	66	62	64	67	67	63	55	59	58	61	58	59	63	64	64	66	68	70	69	70	69	72	72	69	74	59	59	49	53	..	63.8
Southeast Lowlands.																																	
Caruthersville	Maximum	84	91	94	98	92	93	91	94	90	78	86	72	90	94	82	90	94	98	98	100	100	103	97	98	97	100	100	91	81	86	..	92.1
	Minimum	67	67	67	68	70	68	68	72	65	65	67	60	60	65	65	68	72	71	72	72	71	75	74	72	72	75	78	65	57	55	..	68.1
Doniphan	Maximum	79	90	88	90	89	88	88	82	80	78	82	77	85	87	82	87	88	91	91	92	95	94	92	91	91	96	96	93	76	78	..	87.2
	Minimum	64	61	62	62	62	62	62	63	63	62	67	62	56	58	62	69	68	69	67	68	67	68	68	70	70	70	75	65	52	51	..	64.2
Jackson	Maximum	79	87	89	88	91	84	87	82	91	75	84	84	84	88	82	86	88	92	92	93	95	96	93	92	92	95	93	87	74	78	..	87.4
	Minimum	65	66	67	61	63	61	65	62	[a]61	59	68	60	54	59	63	62	69	69	66	67	65	69	69	71	70	73	74	62	47	48	..	63.9
Poplar Bluff	Maximum	79	85	87	87	85	86	86	84	83	78	79	75	84	87	81	87	89	91	91	92	95	97	93	90	89	95	94	92	76	77	..	86.5
	Minimum	65	66	62	64	65	66	64	64	62	62	67	63	58	61	64	67	68	69	68	69	69	71	69	71	71	72	76	64	53	52	..	65.4
Cairo, Ill.	Maximum	80	84	86	86	88	84	86	78	78	73	81	68	82	85	79	83	86	88	89	91	92	92	90	88	88	93	92	71	70	73	..	83.5
	Minimum	68	68	66	69	71	65	66	66	63	59	68	63	61	65	69	68	69	70	72	73	72	76	73	73	72	74	67	61	54	58	..	67.3
Ozark Plateau.																																	
Arcadia§§.	Maximum	75	82	84	86	88	85	84	76	75	70	82	68	80	83	82	83	86	85	87	87	89	89	88	87	86	92	90	70	70	74	..	82.1
	Minimum	62	67	60	62	62	66	63	60	60	59	60	59	55	56	61	62	65	66	66	64	63	64	65	68	67	71	71	64	47	45	..	62.0
Birchtree	Maximum	76	78	72	..	83	78	82	83	78	74	80	80	81	80	76	82	84	86	84	85	..	90	89	84	86	90	90	84	72	70	..	[b]81 3
	Minimum	65	64	64	..	62	66	63	62	62	60	64	62	57	60	62	67	67	68	69	69	..	69	69	69	70	70	74	63	56	50	..	[b]64.4
Eldon	Maximum	85	80	88	87	86	81	84	80	71	71	74	84	83	81	80	86	91	91	90	91	91	92	96	93	93	92	83	76	75	75	..	84.3
	Minimum	61	65	60	65	64	65	68	56	60	60	57	68	56	60	61	62	63	66	71	60	70	70	70	69	71	64	63	63	51	48	..	62.9
Farmington	Maximum	82	86	87	91	91	86	83	86	78	70	82	70	82	88	78	86	88	92	90	93	94	96	96	97	93	94	84	77	70	75	..	85.5
	Minimum	63	66	61	63	66	67	64	62	69	62	66	59	62	58	62	63	67	67	68	65	67	70	68	69	68	72	67	60	49	47	..	63.9
Hollister	Maximum	86	92	84	87	84	85	84	87	84	83	78	70	72	82	82	87	91	88	93	91	90	94	95	91	92	95	95	85	76	75	..	85.9
	Minimum	62	61	62	61	58	59	56	60	58	65	60	60	60	54	59	65	64	62	65	65	62	62	61	66	64	66	73	62	48	50	..	61.0
Koshkonong	Maximum	85	84	85	85	84	86	84	83	77	75	80	68	83	82	80	79	87	90	88	89	90	92	90	87	88	91	91	83	73	75	..	83.8
	Minimum	65	66	63	62	65	63	62	64	62	64	65	60	58	61	65	67	66	70	69	69	69	71	70	70	70	71	75	63	51	53	..	65.0
Lebanon§§	Maximum	87	80	85	88	89	84	83	87	76	79	76	71	85	81	87	89	90	91	89	92	91	94	95	94	93	95	94	70	77	71	..	85.4
	Minimum	63	66	61	57	63	61	61	57	59	61	61	56	52	56	62	66	64	67	68	68	67	64	67	69	68	70	66	60	45	49	..	61.8
Mountain Grove§§	Maximum	79	83	79	82	81	83	83	80	73	75	77	69	79	77	86	84	85	86	84	85	86	88	88	86	86	92	89	69	73	69	..	81.2
	Minimum	65	61	62	64	63	62	61	60	62	63	64	57	53	59	63	65	70	66	67	67	68	69	68	69	68	70	71	61	47	52	..	63.2
Neosho	Maximum	92	91	95	86	88	81	82	88	84	80	82	72	81	78	83	86	90	90	88	91	90	92	91	90	93	93	93	91	77	77	..	86.6
	Minimum	65	67	53	66	64	63	63	62	66	67	63	60	56	59	64	68	68	69	70	69	69	65	67	67	67	74	73	64	49	54	..	64.4
Rolla	Maximum	90	82	82	88	90	88	82	84	83	72	77	69	85	85	83	85	86	92	89	89	92	94	93	93	92	92	91	79	75	71	..	85.1
	Minimum	63	66	61	65	66	65	65	56	63	60	60	50	56	59	62	66	66	68	70	70	69	69	69	70	70	74	69	61	51	52	..	63.7
Springfield	Maximum	81	85	78	81	79	80	80	81	71	77	70	67	77	75	83	84	88	87	84	85	86	88	90	87	89	91	91	71	72	68	..	80.9
	Minimum	66	63	65	63	65	61	65	62	63	66	59	57	60	62	65	69	69	70	71	70	70	68	71	71	70	73	62	57	53	57	..	64 8
Southwest Plain.																																	
Amoret	Maximum	80	86	81	83	85	82	78	79	76	78	68	74	78	76	88	82	88	88	89	86	88	88	91	90	94	90	90	71	75	75	..	82.6
	Minimum	58	61	62	63	64	62	60	55	65	63	58	56	55	60	64	65	65	69	68	69	68	68	69	68	68	72	64	60	49	56	..	62.9
Appleton City	Maximum	80	83	81	86	86	77	80	80	73	76	74	74	80	76	88	85	88	89	89	88	88	90	92	92	93	91	89	72	76	68	..	82.8
	Minimum	64	67	63	66	67	63	65	58	64	66	61	58	58	62	67	68	69	71	71	77	72	70	72	72	71	75	66	62	54	58	..	65.9
Clinton	Maximum	85	86	85	90	90	82	85	85	79	72	76	72	84	85	91	88	95	94	93	93	93	95	95	95	99	95	88	79	72	69	..	86.3
	Minimum	62	67	63	65	67	64	65	58	64	66	60	59	58	62	67	68	68	70	73	70	72	69	70	72	73	75	66	62	55	52	..	65.4
Harrisonville§§	Maximum	79	87	81	86	82	78	80	76	71	74	62	76	78	75	86	85	88	88	87	88	87	89	91	90	93	89	82	72	76	66	..	81.4
	Minimum	62	65	63	66	62	63	62	56	60	62	59	58	58	62	65	67	65	70	71	72	70	70	71	72	71	72	64	62	51	55	..	64.2
Lamar§§	Maximum	83	90	89	85	87	77	81	85	76	77	68	72	80	74	85	85	90	90	91	91	90	92	95	94	93	93	94	73	75	77	..	84.4
	Minimum	66	66	64	66	68	65	63	62	66	66	65	59	58	61	66	70	69	71	71	72	71	69	71	70	71	75	68	63	53	57	..	66.1
Lamonte	Maximum	83	81	87	89	90	84	80	78	73	71	68	78	85	81	84	86	94	93	91	92	90	93	96	96	95	93	83	73	77	68	..	84.4
	Minimum	63	68	62	66	63	64	62	56	63	63	59	58	56	60	64	66	66	70	71	72	70	68	71	71	71	74	63	60	50	55	..	64.2
Marshall	Maximum	81	80	87	87	88	85	80	77	72	68	66	78	80	..	83	83	90	91	89	91	89	90	93	94	94	89	77	73	78	66	..	[a]82.7
	Minimum	62	65	60	60	61	64	61	56	60	60	58	59	59	..	65	76	65	66	62	71	69	66	76	74	72	72	60	59	52	53	..	[a]63.6
Nevada	Maximum	81	86	80	85	84	78	78	82	82	77	72	72	78	77	85	82	88	88	85	86	87	88	91	90	91	91	72	73	73	74	..	82.0
	Minimum	66	65	63	66	68	62	67	59	64	66	60	59	58	53	66	67	65	72	72	68	71	71	71	72	72	68	62	63	52	61	..	65.0
Warrensburg	Maximum	92	90	89	91	90	84	80	78	77	74	74	77	84	73	85	88	92	91	91	92	90	91	94	94	95	91	87	72	75	72	..	85.1
	Minimum	63	68	63	66	63	63	62	55	64	65	59	61	57	63	64	66	67	70	72	73	71	71	71	73	72	74	62	61	50	57	..	64.9
Warsaw	Maximum	84	80	85	88	87	82	80	81	79	77	70	74	83	80	86	87	92	92	91	90	91	92	93	93	92	92	88	76	76	70	..	84.4
	Minimum	64	67	60	65	69	62	64	57	64	65	61	59	54	58	67	68	65	72	70	71	70	65	73	70	71	74	67	62	49	55	..	64.6
Northwest Plateau.																																	
Chillicothe §§	Maximum	87	83	87	87	87	83	74	75	65	63	61	79	81	80	83	86	90	91	90	92	91	93	95	96	96	88	78	69	73	70	..	82 4
	Minimum	64	66	64	67	66	65	51	56	59	56	58	57	56	61	64	64	66	68	69	71	70	68	70	70	73	70	59	49	49	55	..	62.7
Grant City	Maximum	88	82	88	86	86	81	81	80	76	64	69	80	80	79	83	88	91	88	90	92	90	90	95	96	99	99	84	80	75	71	..	84.5
	Minimum	63	66	64	66	64	65	61	59	55	51	56	56	62	62	65	64	67	64	70	71	72	70	69	71	73	60	59	58	50	56	..	63.0
Kansas City	Maximum	82	88	81	88	85	77	77	74	68	69	61	76	79	76	83	84	90	90	90	91	90	91	94	93	96	86	81	71	72	68	..	81.8
	Minimum	65	70	66	67	66	65	62	58	63	61	58	58	63	64	62	70	70	72	74	75	73	74	75	77	75	72	62	60	56	60	..	66.4
Kidder§§	Maximum	86	87	88	88	89	83	75	76	63	64	60	80	81	80	83	88	90	89	89	92	90	92	96	96	99	92	78	70	76	65	..	82.8
	Minimum	63	66	62	62	66	63	60	52	58	57	57	57	57	60	63	64	65	68	69	68	70	68	69	71	71	67	57	58	51	54	..	62.4
Lexington§§	Maximum	82	88	85	88	85	82	79	76	71	66	65	77	80	76	82	83	90	90	88	89	88	90	94	93	95	90	81	73	75	68	..	82.3
	Minimum	62	68	65	67	64	64	63	56	64	62	59	58	58	61	66	67	68	70	72	73	71	70	72	71	73	72	61	61	53	52	..	64.8
Maryville	Maximum	85	85	87	86	85	78	72	71	64	65	60	79	79	76	79	84	89	88	86	92	87	90	93	95	97	86	79	78	74	84	..	81.8
	Minimum	63	65	63	63	61	62	59	53	54	58	56	55	58	62	66	65	67	63	70	71	71	71	71	71	72	62	59	58	49	64	..	62.7
Oregon	Maximum	81	84	84	85	82	77	73	72	61	71	64	75	79	77	80	85	87	88	86	89	87	88	94	93	95	87	79	73	69	63	..	80.4
	Minimum	63	64	64	63	64	63	60	56	58	61	56	57	58	62	66	67	68	69	72	72	72	73	72	73	71	65	60	58	50	59	..	63.9
St. Joseph	Maximum	84	86	88	89	87	78	74	75	66	72	63	77	82	79	82	85	92	92	91	92	90	91	95	95	98	89	83	71	72	68	..	82.9
	Minimum	64	65	66	66	67	65	62	57	60	59	58	58	58	65	67	68	70	73	74	74	73	74	74	74	72	69	61	56	53	60	..	65.4
Trenton	Maximum	88	81	87	84	84	86	72	77	68	65	62	71	81	83	81	86	88	89	90	90	90	90	94	94	95	88	78	72	72	65	..	81.7
	Minimum	67	65	67	68	67	68	62	56	58	59	58	58	60	63	65	66	68	69	70	72	71	70	73	74	74	68	60	60	50	57	..	64.8

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

AUG 4 1924

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXVII. Columbia, Mo., July, 1923. No. 7.

GENERAL SUMMARY.

July, 1923, in Missouri, was warmer and drier than normal in all sections, though both temperature and moisture departures were of relatively small value. Positive temperature departures were, as a rule, the result of rather high night than high day temperatures, there being but two or three stations in each section, outside of the southeast part of the State, with maxima of 100° or higher. The greater part of the month, and particularly the first and last weeks, were pleasant from the side of personal comfort.

At the close of the month farm work was well up to the average, and condition of the main crops were average or higher. Aside from some storm damage in the southwestern part of the State on the 29th, the month was free from severe storms.

TEMPERATURE.

The monthly mean temperature for the State, 69 stations reporting, was 78.2°. The departure from the normal for 66 stations having 10 or more years' record was plus 0.7°. The temperature distribution was uniform, the southeastern lowlands being a bit warmer than elsewhere. The first four days were cooler than normal, the following week was warmer than normal; from about the 12th to the 25th, temperatures varied every few days, sometimes a few degrees above and again a few degrees below normal; the last 6 days were mainly pleasant. Maxima were 90° or higher on about 18 days; afternoon values were near the 100° value generally on the 10th, and 24th.

PRECIPITATION.

The average precipitation for the State, 93 stations reporting, was 3.07 inches. The departure from the normal for 82 stations having 10 or more years' record was minus 0.89 inch. The rainfall was less than normal in all divisions, but the deficiency was much more marked in the eastern half of the State, and especially the eastern-third. The more general rains fell on the 4th, 12th, 14th, and 27th,28th or 30th. The greatest monthly amount was 10.29 inches, at Waverly, and the next greatest was 7.07 inches, at Amoret. The greatest amount in any 24 consecutive hours was 7.42 inches, at Waverly. (Waverly is a river station, not entered on Climatological page, but on Precipitation page.) Other heavy 24-hour amounts were, 2.70 inches at Jefferson City, on the 15-16th; 3.08 inches, at Seymour on the 13th, and 4.25 inches, at Marshall on the 4th. At Rolla, 3 inches fell in about one hour on the 15th.

WIND.

The prevailing winds were from the south. The average movement based on records of 8 well placed stations equipped with anemometers, was 4,562 miles, 6.1 miles per hour, and about 15 per cent less than normal. There were a few high winds, resulting damage being confined to small areas.

SUNSHINE AND CLOUDINESS.

The average number of hours of of sunshine for the State, based upon the records of 6 stations equipped with sunshine recorders, was 346, or about 76 per cent of the possible and about 5 per cent above the normal.

MISCELLANEOUS PHENOMENA.

Hail.---Locally damaging in Jasper, Newton, and Barry Counties on the 29th, and in Wright County on the 30th.

Halos, solar.---3d, 4th, 13th, 23d, and 26th.

Halos, lunar.---On the 25th.

Thunderstorms.---More or less general on the 3d, 4th, 5th, 11th, 15th, 27th, and 29th.

SPECIAL STORM NOTES.

July 29th.---During the evening and night a severe thunderstorm, accompanied by hail and wind, swept a path three to four miles wide across Jasper County, eastern parts of Newton and McDonald Counties, and the western part of Barry County. While the severity of the storm was much less at some places than at others, there were several localities that got the full force of the storm, resulting in heavy damage, principally farm crops including orchards. The storm traveled from northwest to southeast, though dipping southward in parts of its path. The hail was most severe in Jasper and Newton Counties. Some of the stones were six inches in circumference. Several large barns were demolished, houses and small buildings unroofed, and hundreds of window panes were broken on the northern and western sides. One of the heaviest items of property damage was to furnishings of homes, and stocks of goods of business firms, due to penetration of roofs by hailstones, letting in a flood of rain which was a feature of the storm. Newspapers of the storm's vicinity place the damage to property and crops at $300,000, as the lowest estimate. In Barry County fruit was whipped from the trees, and some buildings were moved from foundations while others were blown inward.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.98	85	67	337	74	3,609	4.9	23	nw.	11
Hannibal	29.98	77	..	...	..	4,528	6.1	27	nw.	11
Kansas City	29.96	76	57	386	85	5,323	7.2	36	nw.	12
St. Joseph	29.95	81	54	360	79	4,000	5.4	22	n.	27
St. Louis	29.97	72	52	308	68	6,341	8.5	27	s.	16
Springfield	29.99	85	66	328	73	5,087	6.8	21	nw.	27
Cairo, Ill	29.98	83	61	...	..	3,932	5.3	22	nw.	12
Keokuk, Iowa	30.00	72	50	350	77	3,673	4.9	23	w.	11

COMPARATIVE DATA FOR JULY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	79.3	+2.3	111	50	3.31	−0.98	......	0	7	....	....	....
1889	77.1	+0.1	107	46	3.75	−0.54	......	0	8	....	....	....
1890	79.6	+2.6	106	52	2.98	−1.31	......	0	5	....	....	....
1891	72.7	−4.3	103	40	3.55	−0.74	......	0	8	....	....	....
1892	75.8	−1.2	101	45	4.99	+0.70	4.75	0	[illegible]	12	10	9
1893	77.3	+0.3	101	51	4.91	+0.62	6.44	0	8	14	12	5
1894	76.5	−0.5	109	42	2.48	−1.81	4.90	0	5	18	10	3
1895	74.4	−2.6	106	45	6.79	+2.50	6.52	0	10	10	12	9
1896	77.3	+0.3	108	48	5.87	+1.58	8.00	0	9	15	11	5
1897	78.7	+1.7	106	48	3.22	−1.07	4.05	0	6	19	9	3
1898	76.1	−0 9	104	42	5.58	+1.29	8.15	0	9	16	10	5
1899	76.0	−1.0	102	43	4.51	+0.22	4.48	0	9	15	11	5
1900	76.9	−0.1	102	46	4.11	−0.18	7.03	0	8	17	10	4
1901	85.4	+8.4	116	46	2.02	−2.27	3.78	0	5	19	10	2
1902	77.0	0.0	103	50	4.59	+0.30	5.30	0	8	17	11	3
1903	77.4	+0.4	102	51	3.22	−1.07	3.26	0	8	17	10	4
1904	74.2	−2.8	100	47	4.65	+0.36	4.15	0	10	15	11	5
1905	73.4	−3.6	101	48	7.45	+3.16	7.60	0	12	12	10	9
1906	74.7	−2.3	100	48	3.53	+0.76	4.46	0	8	17	10	4
1907	78.4	+1.4	105	47	4.57	+0.28	6.70	0	8	19	8	4
1908	76.5	−0.5	101	49	2.23	−2.06	2.65	0	8	18	9	4
1909	76.7	−0.3	102	41	6.41	+2.12	10.71	0	10	17	8	6
1910	76.8	−0.2	109	46	6.70	+2.41	5.80	0	9	16	9	6
1911	78.0	+1.0	113	43	3.95	−0.34	4.20	0	8	16	9	6
1912	78.8	+1.8	104	52	2.74	−1.55	3.17	0	7	18	9	4
1913	80.2	+3.2	108	47	3.13	−1.16	3.62	0	7	18	9	4
1914	80.5	+3.7	109	45	2.67	−1.66	4.45	0	7	17	9	5
1915	74.6	−2.4	102	42	6.05	+1.59	6.77	0	12	14	9	8
1916	81 6	+4.6	109	52	1.25	−3.15	2.55	0	3	25	5	1
1917	77.5	+0.2	107	42	2.96	−1.22	3.40	0	8	20	8	3
1918	77.1	+0.2	110	41	1.76	−2.49	3.75	0	6	19	8	4
1919	80.0	+2.3	115	50	2.33	−1.37	4.55	0	5	23	6	2
1920	76.3	−0.9	105	47	3 25	−0.84	3.84	0	7	18	8	5
1921	80.3	+2.9	109	46	2.32	−1.77	2.25	0	5	20	8	3
1922	76.8	−0.7	103	46	5.85	+1.82	12.25	0	8	17	9	5
1923	78.2	+0.7	105	50	3.07	−0.89	7.42	0	6	18	8	5
....	......	....	....	.....	......	....	......	....	....	....	....	....
....	......	....	....	.....	......	....	......	....	....	....	....	....

Climatological Data for July, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	43	79.6	+ 3.9	99	9†	58	29	34	2.42	−2.22	1.25	0	8	22	0	9	ne.	O. K. Benecke
Clifton Hill	Randolph	731	24	76.6	+ 0.2	95	7†	55	1	30	1.94	−1.94	0.80	0	5	21	6	4	......	Dr. A. J. Bradsher
Columbia	Boone	748	33	77.3	− 0.1	94	11	58	29	27	3.71	+0.06	1.50	0	7	14	9	8	e.	U. S. Weather Bureau
Downing	Schuyler	878	13	78.4	......	98	10†	59	1	32	1.90	−3.03	1.05	0	5	23	4	4	s.	E. E. St. Clair
Fayette	Howard	661	43	74.6	− 2.8	91	11†	55	1†	28	2.47	−1.18	1.08	0	6	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	35	76.7	− 1.2	94	10	56	29	32	5.73	+1.74	2.00	0	6	16	9	6	s.	Westminster College
Gorin	Scotland	700	36	....	......	..	..	..	..	..	2.04	−1.99	0.62	0	5	16	8	7	se.	I. S. McCollom
Hannibal	Marion	534	40	78.2	+ 1.4	96	22	60	29	32	0.87	−2.88	0.32	0	6	17	9	5	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	40	78.3	+ 0.2	97	11	56	1	27	6.21	+2.76	2.70	0	6	25	2	4	s.	Miss Emma Swift
Kirksville	Adair	969	40	76.3	+ 0.2	96	21†	56	2	37	1.26	−3.19	0.60	0	4	22	4	5	s.	Prof. J. S. Stokes
Louisiana	Pike	469	42	78.1	+ 1.7	97	21†	55	19	39	1.55	−1.57	1.01	0	6	25	2	4	e.	J. T. Farrell
Macon	Macon	875	30	77.6	+ 0.2	98	21	56	1	36	1.87	−1.89	1.40	0	7	15	10	6	sw.	W. C. Brown
Mexico	Audrain	800	45	76.8	− 0.5	97	11	54	29	35	2.39	+1.36	1.30	0	9	20	2	9	w.	Mrs. Abbie Snoddy
Palmyra	Marion	652	24	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	.....	W. B. Markell
St. Catharine	Linn	800	13	77.4	+ 1.3	96	9†	58	1†	33	1.72	−2.85	0.92	0	7	15	13	3	sw.	L. D. Baker
St. Charles	St. Charles	456	45	79.0	+ 0.9	96	7†	59	1†	30	1.12	−2.11	0.52	0	6	16	9	6	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	80.6	+ 2.0	95	15	62	1	21	1.83	−1.60	1.48	0	7	12	15	4	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	80.2	+ 0.1	95	10†	62	1	23	2.05	−0.70	1.82	0	5	16	11	4	w.	St. Louis University
Shelbina	Shelby	779	30	....	......	..	..	..	..	..	1.22	−2.94	1.07	0	3	..	..	..	.....	W. M. Nolin
Steffenville	Lewis	650	30	79.8	+ 1.8	101	21	57	29	37	1.37	−3.06	0.60	0	4	18	11	2	ne.	Frank Hall
Unionville	Putnam	1,062	30	77.7	+ 1.1	99	10	54	1	38	1.90	−2.39	1.05	0	4	16	8	7	s.	Geo. W. Davis
Warrenton	Warren	816	41	78.4	+ 0.6	96	7	59	1†	29	1.38	−2.04	0.75	0	6	24	5	2	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	50	78.8	+ 1.9	97	22	61	1	31	1.61	−2.42	0.67	0	4	13	8	10	ne.	U. S. Weather Bureau
Section means and	extremes	.....	..	78.0	+ 0.7	101	21	54	1†	39	2.21	−1.55	2.70	0	6	18	7	6	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	32	84.2	+ 3.6	105	24	62	1	32	3.27	−0.14	2.00	0	5	25	3	3	se.	H. E. Averill
Doniphan	Ripley	344	19	79.2	+ 1.0	101	24	55	1	33	1.96	−2.77	0.65	0	8	20	7	4	s.	W. W. Martin
Jackson	Cape Girardeau	428	33	79.4	+ 2.0	103	24	53	2	34	1.56	−1.96	1.52	0	2	7	20	4	s.	John G. Putz
Marble Hill	Bollinger	470	29	83.0	+ 5.7	100	24	54	1†	33	1.50	−3.18	0.90	0	2	22	9	0	w.	R. A. DeWitt
Parma	New Madrid	281	2	....	......	..	..	..	..	..	3.10	......	1.58	0	4	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	13	....	......	..	..	..	..	..	3.15	−0.59	2.00	0	2		..	..	......	George F. Ellis.
Poplar Bluff	Butler	329	19	80.6	+ 1.9	101	24	58	1	29	2.37	−1.18	0.81	0	7	20	10	1	s.	Rev. J. A. Gallaher
Vanduser	Scott	304	2	....	......	..	..	..	..	..	2.88	−1.89	1.18	0	3	..	..	..	.....	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	51	79.8	+ 0.2	96	24	59	1	22	2.01	−1.44	1.59	0	6	8	14	9	s.	U. S. Weather Bureau
Section means and	extremes	....	..	81.0	+ 2.4	105	24	53	2	34	2.42	−1.64	2.00	0	4	17	10	4	s.	
Ozark Plateau.																				
Arcadia	Iron	926	45	76.3	+ 0.4	99	24	53	2	31	0.90	−3.34	0.48	0	3	17	8	6	s.	Arcadia College
Birchtree	Shannon	1,000	29	77.4	+ 1.0	96	8	58	1	28	3.43	−0.56	1.20	0	5	25	2	4	se.	V. H. Kirkendall
Bolivar	Polk	1,071	36	76.6	− 0.5	96	24	56	2	30	3.90	+0.15	2.00	0	5	25	4	2	e.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	24	....	.....	..	..	..	..	..	3.06	−0.99	1.97	0	3	26	5	0	e.	H. E. Dean
Eldon	Miller	934	24	77.8	+ 0.8	101	24	52	1	31	3.05	−0.61	1.18	0	5	10	14	7	ne.	E. H. Shepherd
Farmington	St. Francois	918	26	78.1	+ 2.8	97	9	55	2	33	3.03	−0.52	1.26	0	5	18	10	3	ne.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	77.3	+ 0.4	98	11	56	1†	35	2.93	−0.57	1.12	0	3	22	7	2	se.	A. C. Leach
Goodland	Iron	1,000	30	76.2	+ 0.6	101	24	52	2	39	0.97	−3.21	0.48	0	5	22	9	0	s	F. M Adams
Greenville	Wayne	381	1	78.0	... ..	98	24	55	1†	34	2.50	......	0.71	0	10	23	7	1	sw.	J. J. Amen.
Hollister	Taney	735	20	79.2^{d}	− 0.2	102	25	55	2	32	2.05	−1.87	1.00	0	4	17^{d}	6^{d}	4^{d}	sw.	Mrs. W. P. Chapmann
Houston	Texas	1,280	31	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	.....	Walter T. Beard
Koshkonong	Oregon	958	22	78.6	+ 0.3	95	8†	55	1	26	2.65	−1.27	0.93	0	5	20	7	4	sw.	R. M. Hitt
Lebanon	Laclede	1,265	36	78.0	+ 1.1	99	24	56	1	33	5.49	+1.37	1.44	0	8	21	4	6	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	27	78.2^{d}	+ 0.6	98	24	59	2	24	4.17	−0.70	1.40	0	7	25	5	1	sw.	C. S. Crow
Mountain Grove	Wright	1,463	26	76.9	+ 0.9	97	24	56	1	28	3.35	−0.65	1.05	0	8	19	10	2	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	40	78.4	+ 0.8	98	24	58	2†	32	3.46	−0.72	1.45	0	5	27	4	0	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	39	79.0	+ 1.6	98	11	52	1	27	5.38	+1.29	3.00	0	4	25	4	2	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	19	77.8	+ 1.2	96	24	56	1	27	3.22	−1.18	1.52	0	6	19	10	2	e.	Floyd E. Fawver
Seymour	Webster	1,612	17	75.5	0.0	94	9	54	2	29	6.77	+2.02	3.08	0	5	19	9	3	s.	Ira H. Hailey
Springfield	Greene	1,350	45	77.2	+ 0.8	95	24	57	1	23	2.67	−2.12	1.17	0	8	23^{a}	5	3	se.	U. S. Weather Bureau
Section means and	extremes	....	..	77.6	+ 0.7	102	25	52	1†	39	3.31	−0.75	3.08	0	5	21	7	3	s.	
Southwest Plain.																				
Amoret	Bates	831	17	76.7	− 0.9	96	24	57	1	27	7.07	+3.11	1.88	0	8	19	9	3	sw.	Darby Fruit Farm
Appleton City	St. Clair	853	31	78.5	+ 0.2	98	24	60	1†	26	3.83	−0.80	1.25	0	8	16	15	0	se.	W. G. Bigelow
Clinton	Henry	765	36	81.1^{a}	+ 3.6	105	24	50	1†	33	2.21	−1.73	0.60	0	10	17^{a}	9^{a}	4^{a}	se.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	77.6	− 0.2	97	9	59	1†	28	3.20	−0.58	1.13	0	8	5	6	20	s	John H. Patterson
Lamar	Barton	980	42	79.6	+ 1.1	101	24	60	1†	32	2.77	−1.47	0.80	0	5	22	5	4	e.	Jesse A. Mann
Lamonte	Pettis	867	36	78.4	− 1.1	99	11	59	1†	32	5.70	+1.70	2.60	0	8	24	4	3	sw.	J. E. Wheeler
Marshall	Saline	779	34	78.2^{c}	+ 0.9	97	9†	58	1	37	6.01	+2.05	4.25	0	4	13^{c}	10^{c}	5^{c}	se.	Dr. W. H. Black
Nevada	Vernon	862	31	78.2	− 2.0	96	24	60	1†	26	3.91	−0.02	1.02	0	8	20	7	4	s.	George A. Kaupp
Warrensburg	Johnson	878	43	78.9	+ 0.1	98	10†	59	1†	32	2.73	−1.22	0.83	0	7	14^{b}	12^{b}	3^{b}	s.	E. A. Markey.
Warsaw	Benton	687	28	78.4	+ 0.1	99	24	60	1	30	3.08	−1.22	1.05	0	11	12	18	1	e.	J. R. Smith, M. D.
Section means and	extremes	.....	..	78.5	+ 0.2	105	24	50	1†	37	4.05	−0.02	4.25	0	8	16	10	5	se.	
Northwest Plateau.																				
Avalon	Livingston	730	34	78.3	− 0.8	96	9	60	1	28	4.95	+0.84	2.40	0	5	18^{a}	11^{a}	1^{a}	sw.	F. G. Ashbaugh
Bethany	Harrison	916	32	78.2	+ 2.2	99	10†	56	1†	38	1.90	−2.61	1.13	0	7	21	4	6	sw.	Owen Ross
Chillicothe	Livingston	779	17	76.8	− 3.4	96	10	53	30	33	5.78	+1.20	3.67	0	6	22	7	2	e.	Wm. J. Olenhouse
Conception	Nodaway	980	39	78.3	+ 1.9	101	10	57	2	29	5.52	+1.22	2.16	0	5	16	13	2	ne.	Fr. Adelhelm Hess
Edgerton	Platte	856	11	73.8^{a}	......	..	..	57	2†	28	2.06	−2.74	0.62	0	9	27	2	2	s.	Fred L. Stiff
Grant City	Worth	1,134	31	78.0	− 1.8	100	10	58	1†	32	0.58	−4.58	0.38	0	2	17	14	0	s.	B. F. Locke
Kansas City	Jackson	963	50	79.4	+ 1.8	97	11	60	2	24	3.40	−1.44	2.40	0	10	15	13	3	e.	U. S. Weather Bureau
Kidder	Caldwell	1,020	36	77.4	+ 0.5	97	9†	56	1	30	6.88	+2.95	4.00	0	6	16	6	9	se.	Linn Terry
Lexington	Lafayette	688	41	78.6	+ 0.9	96	9†	59	1†	29	5.21	+0.49	1.80	0	8	19	9	3	s	Edwin G Loomis
Liberty	Clay	859	33	79.0^{i}	+ 0.9	98	12	59	29	35	2.33	−2.01	1.01	0	6	12^{i}	10^{i}	0^{i}	e.	James H. Harris
Maryville	Nodaway	1,169	29	77.4	+ 1.8	98	10	56	2	29	2.81	+2.58	1.27	0	6	21	0	10	s.	J. R. Brink
Oregon	Holt	1,048	67	77.1	+ 1.5	94	10	57	2	23	2.13	−2.19	1.26	0	7	19	7	5	s.	Tom Curry
St. Joseph	Buchanan	967	50	79.2	+ 0.1	96	10	58	2	29	2.24	−1.49	0.85	0	8	18	11	2	se.	U. S. Weather Bureau
Tarkio	Atchison	916	30	77.4	+ 0.4	98	10	58	28	33	0.24	−3.47	0.14	0	3	16	11	4	se.	Albert Volker
Trenton	Grundy	822	28	77.4	+ 0.5	94	10	56	1	25	2.50	−1.83	0.82	0	7	24	5	2	se.	W. H. Estes
Section means and	extremes	.....	..	77.7	+ 0.5	101	10	53	30	38	3.24	−0.87	4.00	0	6	15	8	4	s.	
State means and	extremes	.....	..	78.2	+ 0.7	105	24	50	1†	39	3.07	−0.89	4.25	0	6	18	8	5	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for July, 1923.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	.14	.01	.03	1.86	.23							.40	.13				.01										.30			.64		3.75
Brunswick‖	Grand	.30	.05	.28	1.25	.07							.14		.16													.17					2.42
Clifton Hill	Chariton			.03	.80								.30			.53												.28		T.			1.94
Columbia***	Missouri	T.	T.	.78	.47							.09	1.41				.57										T.	.21		.18			3.71
Downing	Mississippi	.16		1.05		.09							.55														.05						1.90
Fayette‖	Missouri				1.08					.58		.27	.12															.21			.21		2.47
Fulton	do			.27	.96				.10				1.30				1.10														2.00		5.73
Gorin	Mississippi	.62		.48								.45	.09															.40					2.04
Hannibal***	do	.01		.32	T.							.19	.01															.31		.03			0.87
Hermann‖	Missouri			.48	2.20	.40								.33			.36	.90													.39		5.06
Jefferson City‖	do				.62												2.70	.12										.22	.05		2.50		6.21
Kirksville	Mississippi			.30	.18								.60															.18					1.26
Louisiana	do	.06			.30							1.01	.02					.01													.15		1.55
Macon ‖	Chariton	.19	T.	T.	1.40					.01			.01	.03														.22	.01		T.		1.87
Mexico ‖	Mississippi	.02			1.30	.07				.54			.22	.12														.01	.03		.08		2.39
Milan ‖	Grand	T.			1.10		.42						.75															.11			.12		2.50
Pacific‖	Meramec	.03		.18	.12	.06	.04							.28				.15													.62		1.48
Palmyra‖	Mississippi																																....
St. Catharine	Grand	.02	.01	.57	.35	T.						.02	.40															.35					1.72
St. Charles	Missouri	.10			.52	.05											.09											.22			.14		1.12
St. Louis (1)***	Mississippi			.03	.12	.01							.02				1.48											.14		.03	T.		1.83
St. Louis (2)	do			.05	.03								T.				1.82											.08		.07	T.		2.05
Shelbina	do			1.07									.10															.05					1.22
Steffenville	do	.07		.60	T.								.48															.22					1.37
Union‖	Meramec	.05		.20	.18	1.06	.20	.22						.25				.18													.39		2.73
Unionville	Chariton	T.		.20	.05	T.							1.05															.60					1.90
Valley Park‖	Meramec	.05		.06	.30	.37	T.											1.98											T.		.30	.03	3.09
Warrenton ‖	Mississippi	.03		.14	.75	.08								.12															T.		.26		1.38
Keokuk, Ia.***	do	T.		.67		T.						.29											.14					51					1.61
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi					.14								.03					.11							.02			1.61		.03		1.94
Caruthersville	do																																....
De Soto‖	do																																....
Doniphan	Black									.45				.20			.05	.16										.15	.05		.25	.65	1.96
Fredericktown‖	St. Francis					.03				.02				.05	1.03			1.18					.03						1.59		.49		4.42
Jackson	Mississippi																								.04				1.52				1.56
Leeper ‖	Black																																....
Marble Hill	Mississippi																	.60											.90				1.50
New Madrid‖	do					.02	.63						.01	.01				.09											.47				1.23
Parma	St. Francis					.50			.16								.86												1.58				3.10
Patton (near)	Mississippi																											1.15	2.00				3.15
Poplar Bluff	Black								.04					.71			.66	T.								.03		.02	.81		.10		2.37
Vanduser	Mississippi													1.18				.60										1.10					2.88
Cairo, Ill.***	do				.01	.15								.16		T.		.10										1.40	.19		T.		2.01
Ozark Plateau.																																	
Annapolis‖	St. Francis																	.30										.40		.36			1.06
Arcadia ‖	do					.12	T.								T.			T.	T.							T.			.48		.30		0.90
Birchtree	Black													1.20			.53		.20									.48			1.02		3.43
Bolivar	Osage	2.00												1.00		.67	.03								.20								3.90
Dean	Neosho																1.97				1.06										.03		3.06
Eldon	Missouri				.94									.42			.05											.46			1.18		3.05
Farmington	St. Francis					.29							T.	T.			1.08											.21	1.26		.19		3.03
Gano	Meramec																.74											1.12			1.07		2.93
Goodland	Black																.04									20		.15	.10		.48		0.97
Greenville	St. Francis					.11			.71				.05	.04			.23	.08								.14		.05	.68		.41		2.50
Hollister	White									.05				.50			1.00											.50					2.05
Houston	Gasconade																																....
Jerome ‖	do	.04													T.			.93											.72		1.32		3.01
Koshkonong	Black													.93			.71	.24										.22			.55		2.65
Lebanon ‖	Osage	.07	T.											.45	.87		1.00	.06										.90	.70		1.44		5.49
Lockwood	do	1.40										T.		.80	.18	.68	.18											.63			.30		4.17
Mountain Grove‖	White	T.	.07	T.		T								1.05	.23		.03	.33	.13				T.					T.	.56		.95		3.35
Neosho	Neosho	.34		T.										.15		T.	1.44					.08									1.45		3.46
Rolla	Meramec				T.									T.		3.00	.35											.55		1.48			5.38
Seligman	Neosho	.10										T.	.34	.07			1.02				T.							.17		T.	1.52		3.22
Seymour	White	.40												3.08			1.18	T.										1.80			.31		6.77
Springfield***	do	.44												1.16	.01	.45	.16	T.										.17		.10	.18		2.67
Steelville‖	Meramec																	.19											.13		1.04	.03	1.39
Tuscumbia ‖	Osage	.04			1.00									T.	.06		.45	.66										.30	.09		1.44		4.04
Willow Springs‖	White	.02				T.							.80	1.50			.56	.02										.28		.39			3.57
Southwest Plain.																																	
Amoret	Osage		.61		.18								1.78	1.20		1.88	.15									T.		.82		.45			7.07
Appleton City	do	.66			.19								.57	1.25		.07		.01							T.			1.06		.02			3.83
Clinton	do	.53	.08	.02	.15								.42	.35	.02		.02											.60			.02		2.21
Harrisonville‖	do	.61			.05	.04	.02						.53	.42	.40													1.13					3.20
Joplin	Neosho									T.	T.	.36		.78		1.39	.04				.13				.42					1.33			4.45
Lamar ‖	do	.80			.57	T.								.60			T.	.60										.20			T.		2.77
Lamonte	Missouri																																....
Marshall	do	T.		T.	4.25					.62		T.	.82															.32					6.01
Nevada	Osage	.13			.32								1.02	.92		.65	.01											.46		.40			3.91
Osceola‖	do	1.74	.05	.25									.28	1.75														1.10					5.17
Warrensburg	Missouri	.50	T.		.36								.27	.36		T	.83										T.	.27		.14			2.73
Warsaw	Osage	.20	.25	.03	07					T.		.12	.43	.72		.10	T.									T.	T.	1.05		.08	.03		3.08
Waverly ‖	Missouri	.56		.25	7.42	.03							.92	T.				.01										.56			.54		10.29
Northwest Plateau.																																	
Albany‖	Grand	1.05			1.43																							1.53		T.			4.01
Avalon	do		1.60	.40	2.00							.80															.15						4.95
Bethany	do	.10			.20	.03						1.13	.02			.18										T.	T.		T.			.24	1.90
Chillicothe‖	do	1.02		T.	3.67	30							.51				.14											.14			T.		5.78
Conception	Missouri			.14	1.48	T.						2.16				1.42										T.	T.	.32		T.			5.52
Edgerton	do	.35	.04	01	T.	.48							.62	.02													.02	50		.02			2.06
Grant City	Grand			T.		T.						.20	.38	T.												T.		T.		T.			0.58
Kansas City***	Missouri	1.48	.64		T.	.01					.10	.23	.44	.04		T.	.09									T.	T.	.34		.03			3.40
Kidder ‖	Grand	.31		.78	4.00								.18				1.53											.08					6.88
Lexington	Missouri	.64	.01	.87	1.80								1.25	.02														.25			.37		5.21
Liberty	do		.71			.32							1.01	.05												T.		.18		.06			2.33
Maryville	do	.75	.03		.01								1.27	.02														.73					2.81
Oregon	do	.08			.17	.23							.07				1.26									T.	.04	.28	T				2.13
St. Joseph***	do	.08		T.	.11	.40						.23	.08	T.		.49											.01	.84		T.			2.24
Tarkio	do			.08								.02														T.		.14					0.24
Trenton	Grand	T.		.12	.18	.63						.69				.04												.82		.02			2.50

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded.

Daily Temperatures for July, 1923.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	76	84	87	85	91	93	96	98	99	99	98	87	92	95	94	94	92	94	96	96	98	93	97	96	92	86	81	88	87	91	94	91.9
	Minimum	59	60	62	65	67	70	70	71	73	72	75	72	71	65	69	74	69	65	62	63	67	68	69	73	64	66	67	68	58	64	65	67.2
Columbia	Maximum	76	82	86	79	88	91	92	92	91	93	94	83	87	90	92	88	86	86	89	90	91	89	93	91	88	84	82	82	85	85	89	87.5
	Minimum	61	60	66	65	69	70	71	71	74	72	72	70	72	67	68	72	69	65	63	63	64	68	69	73	70	65	65	62	58	63	64	67.1
Fayette	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Hannibal	Maximum	76	81	78	80	89	93	95	91	94	95	92	80	90	94	92	90	89	90	92	93	95	96	95	93	89	86	81	82	83	86	89	88.7
	Minimum	62	63	66	65	70	73	73	74	69	69	74	72	68	64	68	75	68	66	60	62	66	73	73	73	66	66	67	63	60	65	65	67.7
Jefferson City §§	Maximum	76	82	88	80	88	93	95	95	93	95	97	88	85	92	96	90	85	86	88	90	91	92	95	92	89	90	84	87	87	85	90	89.2
	Minimum	56	59	63	65	66	70	70	71	72	70	72	73	71	68	69	69	72	67	65	65	65	69	70	73	72	67	70	62	62	62	64	67.4
Kirksville	Maximum	74	82	78	82	86	87	84	94	93	95	93	80	86	91	90	89	87	88	93	94	96	95	94	94	89	85	82	85	81	86	96	88.0
	Minimum	59	56	62	62	66	66	63	71	70	72	72	68	67	63	70	69	63	59	59	61	64	70	70	72	65	62	63	60	58	62	59	64.6
Louisiana	Maximum	76	80	85	82	90	93	94	96	92	96	95	84	84	90	96	95	92	89	94	95	97	97	97	96	93	90	89	84	90	88	90	90.6
	Minimum	68	58	64	62	68	68	70	68	65	65	68	70	70	60	63	67	70	58	55	57	59	68	74	78	61	58	73	64	62	77	65	65.6
Macon §§	Maximum	74	83	85	83	86	93	94	92	94	96	94	81	92	94	92	94	92	93	95	96	98	96	96	96	94	90	80	87	89	92	94	90.8
	Minimum	56	57	63	64	66	69	69	70	71	60	72	68	68	64	68	69	64	59	60	62	66	68	69	71	65	61	68	60	57	60	60	64.5
Mexico §§	Maximum	76	84	86	77	89	93	94	94	93	95	97	81	88	92	93	91	88	89	90	93	94	92	95	93	91	89	81	87	89	88	92	89.5
	Minimum	56	57	60	63	65	68	69	69	66	70	71	69	69	63	67	70	66	59	59	60	62	67	70	72	64	60	63	58	54	62	61	64 2
St. Catharine	Maximum	71	80	83	80	83	88	94	94	96	96	91	78	86	92	91	88	87	88	94	94	95	95	96	92	89	86	81	82	83	88	91	88.1
	Minimum	58	58	65	64	68	70	72	72	74	72	74	68	69	65	69	72	66	63	61	63	67	67	70	71	65	66	72	61	59	62	63	66.6
St. Louis(1)	Maximum	77	83	86	81	88	93	94	90	93	94	95	84	90	92	95	89	88	88	91	92	91	95	93	93	91	87	82	84	89	86	87	89.1
	Minimum	62	65	70	71	70	74	76	76	75	76	76	75	73	74	76	72	72	68	70	74	75	77	76	78	73	67	71	67	69	69	68	72.1
Unionville	Maximum	74	85	83	84	86	90	96	97	97	99	96	85	90	93	91	93	90	92	95	96	98	98	96	95	92	90	84	86	84	90	94	90.9
	Minimum	54	58	64	60	68	68	70	72	70	72	70	67	62	65	68	70	62	56	57	69	62	68	72	70	60	62	68	57	57	62	58	64.5
Warrenton §§	Maximum	78	84	89	76	90	91	96	91	94	94	95	83	89	93	95	91	89	90	92	92	93	92	94	94	92	90	82	86	88	87	91	89.8
	Minimum	59	60	64	66	68	69	72	71	69	70	71	71	70	66	70	73	70	63	65	66	67	71	71	73	68	62	65	61	59	65	65	67.1
Southeast Lowlands.																																	
Caruthersville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Doniphan	Maximum	80	87	91	94	93	95	97	99	94	94	97	99	85	91	95	85	85	88	91	91	93	94	96	101	96	94	85	88	92	89	89	91.9
	Minimum	55	58	58	62	67	66	67	68	69	68	68	69	70	68	69	73	68	69	69	64	65	66	70	69	74	70	67	70	60	67	63	66.6
Jackson	Maximum	85	86	90	94	93	95	97	95	96	95	98	96	91	95	96	95	91	94	95	95	94	97	97	103	96	92	85	83	89	86	92	93.1
	Minimum	55	53	58	63	70	67	66	71	68	65	67	69	71	67	64	72	71	65	68	61	63	65	69	69	66	63	64	69	62	69	65	65.6
Poplar Bluff	Maximum	83	88	90	93	93	94	95	98	96	95	96	99	85	92	94	91	86	93	95	93	91	93	94	101	98	92	89	89	90	87	93	92.5
	Minimum	58	60	61	65	69	69	69	73	71	69	70	72	74	69	71	74	69	71	70	66	67	68	72	72	72	68	70	70	64	68	65	68.6
Cairo, Ill.	Maximum	77	84	86	89	88	92	94	92	90	90	92	93	87	92	92	89	87	89	89	90	86	91	91	96	90	87	83	80	88	85	87	88.6
	Minimum	59	62	67	71	71	71	72	76	73	73	74	75	73	72	75	75	72	69	72	71	69	71	73	74	74	69	69	71	68	72	71	71.1
Ozark Plateau.																																	
Arcadia §§	Maximum	74	84	86	87	89	92	94	91	90	92	94	90	83	90	92	84	85	87	90	90	88	91	95	99	91	90	83	83	88	82	88	88.5
	Minimum	55	53	57	63	66	66	65	69	64	63	64	67	71	67	64	70	69	62	62	59	64	66	72	70	63	61	67	65	57	63	62	64.1
Birchtree	Maximum	75	81	86	86	88	91	93	96	92	90	93	94	83	86	87	86	85	86	90	87	86	87	90	95	93	87	84	83	85	85	87	87.6
	Minimum	58	61	60	63	70	67	66	68	70	70	67	68	69	69	70	70	69	70	67	67	67	68	68	70	75	70	69	66	62	64	65	67.2
Eldon	Maximum	80	85	70	71	75	82	94	96	94	92	98	92	93	92	95	91	88	90	92	94	95	94	97	101	95	95	81	86	90	88	92	89.6
	Minimum	52	57	63	63	58	61	67	67	79	73	72	69	75	66	68	70	71	60	60	63	65	69	67	71	70	64	68	53	60	74	69	65.9
Farmington	Maximum	78	85	88	82	90	94	96	91	97	96	93	86	94	96	97	91	87	88	90	92	92	90	91	96	90	90	80	83	90	88	92	90.1
	Minimum	57	55	60	66	68	67	69	71	71	66	68	70	71	66	64	67	66	64	64	62	65	70	73	73	68	62	69	66	60	66	64	66.1
Hollister	Maximum	76	86	89	89	93	93	96	97	98	94	98	98	89	92	95	94	92	89	90	93	90	92	95	96	102	95	90	..	..	..	..	[d]92.6
	Minimum	56	55	58	62	69	65	69	68	66	64	68	65	70	70	70	70	68	68	70	65	60	66	63	64	70	69	70	..	..	..	..	[d]65.9
Koshkonong	Maximum	80	84	89	90	90	92	92	95	94	94	94	94	95	90	91	81	85	87	90	90	87	88	91	95	91	91	82	85	88	86	91	89.4
	Minimum	55	58	63	65	68	69	68	72	70	70	68	70	69	70	72	69	70	70	60	68	67	70	71	72	75	70	71	66	63	65	67	67.8
Lebanon §§	Maximum	74	86	87	82	92	93	97	98	95	95	97	93	86	92	95	88	89	91	94	92	93	90	94	99	95	93	85	86	90	89	93	91.1
	Minimum	56	57	59	63	67	65	65	65	67	67	68	67	66	66	68	69	69	65	61	63	63	67	66	67	71	66	68	59	65	64	60	64.8
Mountain Grove §§	Maximum	74	82	85	86	88	88	91	94	94	91	94	93	83	86	90	81	84	85	90	85	87	89	93	97	94	87	83	83	86	86	89	87.7
	Minimum	56	59	62	65	68	68	65	68	68	69	68	71	67	67	70	70	68	68	64	66	64	68	66	69	70	69	69	61	62	60	63	66.1
Neosho	Maximum	80	86	87	89	91	91	92	95	95	95	96	95	91	91	95	87	87	88	91	90	87	89	92	98	92	91	91	87	90	88	92	90.6
	Minimum	59	58	63	74	69	68	66	65	66	67	69	70	71	68	70	70	70	69	63	64	64	64	64	71	70	67	73	58	59	62	60	66.2
Rolla	Maximum	79	85	87	83	93	95	96	95	96	96	98	96	90	95	95	87	88	90	92	91	91	90	92	95	93	91	90	86	85	87	92	90.9
	Minimum	52	59	64	60	68	70	69	71	71	69	72	70	71	70	70	70	71	66	69	65	66	69	69	71	71	66	70	62	63	63	66	67.2
Springfield	Maximum	67	80	83	83	86	87	88	90	90	89	91	88	82	85	88	81	83	84	87	86	86	86	89	95	88	87	82	82	86	85	86	85.5
	Minimum	57	61	65	68	70	71	71	72	73	73	72	74	68	69	71	70	68	69	69	69	67	71	70	72	75	72	66	62	66	64	68	68.8
Southwest Plain.																																	
Amoret	Maximum	82	72	83	83	88	90	91	93	94	94	95	87	84	88	90	87	87	86	88	90	87	90	94	96	88	88	82	84	85	87	88	87.8
	Minimum	57	58	64	66	69	65	67	68	70	69	68	65	68	67	68	69	68	69	63	65	64	66	67	71	68	65	68	60	60	61	62	65.6
Appleton City	Maximum	67	82	83	80	88	90	90	92	96	94	95	86	84	89	91	87	86	88	91	91	88	90	93	98	91	90	84	85	88	87	90	88.1
	Minimum	60	60	66	66	67	70	69	71	73	74	73	70	70	71	73	72	71	70	77	69	67	69	69	72	73	68	70	63	64	65	65	68.9
Clinton	Maximum	73	85	86	87	93	94	94	95	99	101	99	90	87	94	95	93	92	95	95	98	93	93	100	105	98	94	88	89	..	94	95	[a]93.1
	Minimum	50	60	65	67	65	70	70	72	72	73	74	71	70	71	72	80	72	70	66	68	69	70	70	72	74	69	70	67	..	69	64	[a]69.1
Harrisonville §§	Maximum	69	81	85	79	87	90	92	94	97	96	96	87	83	90	87	89	86	87	90	92	90	92	96	96	89	86	82	85	82	89	89	88.2
	Minimum	59	59	61	65	66	69	69	74	72	73	72	68	68	68	70	72	69	69	65	65	67	67	68	70	69	68	68	61	63	63	64	67.1
Lamar §§	Maximum	75	85	84	85	91	93	93	96	95	96	98	89	83	90	94	86	87	89	92	92	90	92	95	101	93	96	84	86	93	91	95	90.6
	Minimum	60	60	62	69	70	70	68	69	70	71	71	73	69	70	71	71	72	72	68	67	66	67	67	71	74	70	73	67	61	66	67	68.5
Lamonte	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Marshall	Maximum	73	82	86	80	87	91	93	95	97	95	92	96	88	93	91	90	91	..	..	93	94	92	97	94	90	..	84	86	88	90	90	[c]89.9
	Minimum	58	60	64	65	65	68	68	70	72	71	76	70	71	66	74	67	62	..	..	64	65	65	60	68	78	..	64	63	60	65	62	[c]66.5
Nevada	Maximum	77	81	83	88	90	92	94	92	93	94	94	85	82	88	87	85	85	87	88	89	86	88	92	96	90	88	87	83	87	85	89	87.9
	Minimum	60	60	68	69	72	71	71	68	70	72	71	69	69	70	72	72	70	71	65	67	66	66	70	74	72	72	72	63	61	64	63	68.4
Warrensburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warsaw	Maximum	84	71	85	80	90	93	94	94	94	96	96	86	85	91	92	87	88	90	92	93	92	92	95	99	95	94	85	85	88	86	92	89.8
	Minimum	60	64	64	65	68	70	66	67	68	70	70	71	72	68	70	72	71	68	61	64	63	66	67	69	74	66	70	61	61	65	62	66.9
Northwest Plateau.																																	
Chillicothe §§	Maximum	73	81	85	83	88	90	92	94	95	96	94	86	87	91	91	89	88	89	91	93	94	92	92	91	88	87	80	84	83	86	91	88.5
	Minimum	56	60	64	64	68	69	71	69	70	72	70	69	71	63	67	71	66	62	58	61	64	66	70	70	63	64	68	59	56	53	60	65.0
Grant City	Maximum	72	84	85	86	88	91	95	94	95	100	94	84	91	93	90	91	92	89	93	95	95	95	98	95	90	87	85	89	82	91	90	90.3
	Minimum	58	58	64	66	70	70	69	69	71	72	69	69	69	66	66	70	66	64	63	63	66	67	66	70	65	66	70	59	58	59	62	65.8
Kansas City	Maximum	70	81	83	81	89	91	92	93	93	93	97	83	85	92	90	86	87	87	90	90	92	91	94	89	85	85	80	83	82	87	90	87.5
	Minimum	60	60	69	68	71	73	75	78	78	78	73	70	72	71	76	74	71	72	71	73	74	73	74	75	70	70	72	65	68	65	68	71 2
Kidder §§	Maximum	72	87	88	84	89	92	93	96	97	96	97	82	88	90	93	88	87	89	92	92	94	94	96	91	88	86	79	88	84	90	91	89.5
	Minimum	56	58	61	64	64	68	70	71	71	71	69	69	70	64	68	64	66	63	63	64	67	67	69	75	63	66	66	58	60	61	62	65.4
Lexington §§	Maximum	70	79	85	80	89	91	93	95	96	94	96	87	87	91	91	89	87	87	92	92	93	93	96	92	89	84	82	85	83	87	88	88.5
	Minimum	59	59	67	64	69	70	70	69	71	72	73	70	72	66	71	73	68	68	63	66	65	69	72	71	67	67	70	63	60	63	64	67.5
Maryville	Maximum	72	82	83	83	89	90	94	93	95	98	94	84	88	91	86	88	90	87	90	92	93	93	95	92	88	84	83	85	76	89	88	88.2
	Minimum	58	56	66	73	69	71	69	71	72	73	70	69	69	67	68	70	67	66	63	65	67	69	67	73	63	66	70	58	61	60	62	66.7
Oregon	Maximum	73	80	82	81	86	88	90	90	92	94	92	84	86	90	89	86	85	85	87	89	90	90	93	93	88	82	80	81	78	84	87	86.3
	Minimum	59	57	66	68	69	71	72	71	72	75	72	68	71	69	70	70	69	67	65	67	74	69	71	71	67	67	72	59	62	62	64	67.9
St. Joseph	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Trenton	Maximum	67	81	88	84	86	89	90	92	92	94	92	85	87	88	89	89	87	86	88	90	91	92	93	90	88	86	80	81	82	84	85	87.0
	Minimum	56	61	66	66	68	70	72	73	74	75	72	70	70	67	70	74	68	67	62	65	67	70	73	73	65	67	70	62	60	63	65	67.7

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

551.05
UNMS

AUG 8 1924

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVII. COLUMBIA, MO., AUGUST, 1923. No. 8.

GENERAL SUMMARY.

August, 1923, in Missouri, was a month of nearly average summer weather, without notable feature, save perhaps the more than usually irregular distribution of rainfall, and a cool snap during the first part of the last decade. Drought was rather persistent in most of the Ozark Plateau and southwestern plain, while in most of the northern part of the State the month was wetter than usual. Heat was somewhat more noticeable in southern sections, the result of relatively scanty rainfall and excess sunshine.

Temperature changes from day to day were not of marked importance. Afternoon temperatures reached and exceeded the 100° value on four or five days. A well marked cool wave overspread the State on the 22-23d. Early morning temperatures were in the 40's generally, 42°, in the northern border counties being the minimum. There were some hearsay reports of frost, but no official or reliable information.

There was sufficient moisture for farming interests most of the time in all sections, except the Ozarks, and the lower part of the southwestern plain. In several of the extreme southwestern counties there was hardly any rain at all. Except in this dry section the month was favorable for crops, corn being better than usual.

Thundershowers were frequent, but there were few squalls. There was no hail damage.

TEMPERATURE.

The montlhy mean temperature for the State as a whole, 68 stations reporting, was 77.3°. The departure from the normal for 65 stations having 10 or more years' record was plus 1.3°. The excess warmth was quite marked in the southern sections, but was not noticeable in the northwestern plateau and northeast plain. During the first half of the month temperatures were above normal almost daily, but during the latter half the warmth varied a few degrees below normal every few days. The hot days were 4th, 5th, 11th, and 14th, the 11th being the hottest generally. About 32 stations had afternoon readings of 100° or higher, the highest being 108°, at Hollister, Taney County, where drought was persistent. An unusually cool spell prevailed on the 22d, and 23d, when minima ranged in the 40's, 42°, being the lowest. As compared with other years, the current cool spell did not quite equal similar cool spells of August, 1891 and 1915.

PRECIPITATION.

The average precipitation for the State, 94 stations reporting, was 3.99 inches. The departure from the normal for 76 stations having 10 or more years' record was plus 0.31 inch. Rains were unevenly distributed geographically. There was a marked excess in the northeastern plain, a small excess in the northwestern plateau, and deficiency elsewhere. In most of the Ozarks and southwestern plain it was noticeably dry, rain falling on from 1 to 3 days only, and generally light. In northern sections there were from 12 to 15 days with rain. The greatest amount that fell in any 24 consecutive hours was 5.25 inches, at Avalon, on the 8-9th. The next excessive amounts were 3.66 inches at Patton, and 3.46 inches at St. Louis. At St. Catharine the monthly fall was 9.55 inches, while at Neosho only 0.24 inch fell.

WIND.

The prevailing winds were from the southwest. The average movement, based upon records of 8 well placed stations equipped with anemometers, was 5,060 miles, or about 6.8 miles an hour, and about normal. There were a few thunderstorm squalls.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine for the State, six well placed stations equipped with sunshine recorders reporting, was 290, or 68 per cent of the possible and about 3 per cent less than normal. The current month had about 6 per cent less sunshine than the same month in 1922.

MISCELLANEOUS PHENOMENA.

Fogs.---At St. Louis on the 3d; St. Joseph on the 18th; in southeast Missouri on the 24th, and 29th.

Hail.---Small, at St. Louis University, and Amoret, on the 5th; Greenville on the 6th.

Thunderstorms.---On the 3d, 4th, 5th, 6th, 8th, 9th, 14th, 15th, 16th, 21st, 26th, and 27th. Thundershowers, or thunder heard almost daily in some part of the State.

ERRATA.

In the report for July, 1923, pages 26 and 28, Kansas City, the minimum temperature on the 27th should be 70; mean monthly minimum, 71.1; mean monthly temperature, 79.3.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	29.96	89	70	278	66	4,094	5.5	40	sw.	5
Hannibal	29.96	84	..	...	..	4,675	6.3	28	nw.	4
Kansas City	29.95	77	57	325	77	6,352	8.5	31	n.	21
St. Joseph	29.94	85	60	294	69	4,428	6.0	30	nw.	4
St. Louis	29.96	81	64	253	60	6,575	8.8	44	w.	5
Springfield	29.97	79	57	306	73	5,902	7.9	30	n.	21
Cairo, Ill	29.97	86	72	...	..	4,471	6.0	36	w.	3
Keokuk, Iowa	29.98	78	61	279	66	3,973	5.3	21	sw.	27

COMPARATIVE DATA FOR AUGUST.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	74.0	−1.6	110	48	7.25	−3.80	......	0	11	....	....	....
1889	73.5	−2.1	101	52	1.96	−1.49	......	0	14	....	....	....
1890	73.3	−2.3	104	49	4.84	+1.39	......	0	9	....	....	....
1891	73.2	−2.4	108	38	5.34	+1.89	......	0	8	....	....	....
1892	74.3	−1.3	100	40	2.42	−1.03	4.55	0	6	17	8	6
1893	72.8	−2.8	100	40	2.20	−1.25	5.60	0	4	18	10	3
1894	77.0	+1.4	111	39	1.58	−1.87	3.07	0	5	14	16	1
1895	75.3	−0 3	104	48	4.23	+0.78	3.50	0	8	15	11	5
1896	76.6	+1.0	108	41	3.25	−0.20	4.80	0	6	17	10	4
1897	74.1	−1.5	108	41	2.39	−1.06	5.00	0	6	19	9	3
1898	75.8	+0.2	103	44	3.03	−0.42	4.75	0	5	17	10	4
1899	78.8	+3.2	107	49	3.35	−0.10	4.28	0	7	18	10	3
1900	80 3	+4.7	105	52	3.51	+0.06	2.77	0	6	19	9	3
1901	78.4	+2.8	109	47	1.88	−1.57	4.33	0	5	19	9	3
1902	75.0	−0.6	103	47	6.16	+2.71	7.84	0	10	14	11	6
1903	74.4	−1.2	102	43	5.40	−1.95	6.40	0	10	16	11	4
1904	73.7	−1.9	100	43	5.46	+2.01	4.43	0	8	16	10	5
1905	76.4	+0.8	102	48	4.69	+1.24	3.94	0	8	19	7	5
1906	76.6	+1.0	101	40	4.72	+0.27	3.55	0	11	14	10	7
1907	77.3	+1.7	109	47	3.71	+0.26	6.30	0	9	17	8	6
1908	76.4	+0.8	102	46	3.87	+0.42	3.57	0	8	17	9	5
1909	79.5	+3.9	110	40	0.55	−2.90	4.00	0	2	24	6	1
1910	74.7	−0.9	103	40	2.77	−0.68	5.80	0	6	15	9	7
1911	75.4	−0.2	109	41	4.20	+0 55	5.17	0	7	15	8	8
1912	76.2	+0.6	104	41	4.19	−0.74	2.62	0	9	17	8	6
1913	82.8	+6.9	110	41	1.06	−2.51	3.51	0	3	22	7	2
1914	78.0	+1.8	106	49	4.25	+0.60	8.50	0	9	15	9	7
1915	69.8	−6.5	98	37	7.86	+4.15	8.20	0	12	12	9	10
1916	79.2	+2.9	107	41	4.05	+0.49	6.48	0	7	19	7	5
1917	73.3	−2.9	104	38	4.45	+0.94	5.20	0	9	16	8	7
1918	81.8	+5.8	111	45	3.34	−0.27	3.42	0	8	17	9	5
1919	75.7	−0.5	106	44	4.29	+0.49	7 00	0	8	17	9	5
1920	73.1	−3.0	102	43	4.78	+0.89	5.77	0	9	15	8	8
1921	76.8	+0.8	109	48	5.27	+1.63	5.20	0	9	14	10	7
1922	77.5	+1.2	107	46	2.40	−1.60	3.87	0	6	18	8	5
1923	77 3	+1.3	108	42	3.99	+0.31	5.25	0	8	16	9	6
....	......	......	....	.....	.....	....	......	....	....	....	....	....
....	....	....	.....	.....	.....	....	......	....	....	....	....	....

Climatological Data for August, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	43	77.4	+ 3.6	104	14	48	23	39	2.03	−1.86	0.46	0	12	16	0	15	se.	O. K. Benecke
Clifton Hill	Randolph	731	24	75.7	− 0.5	99	14	46	23	35	2.41	−1.62	0.53	0	9	13	10	8	......	Dr. A. J. Bradsher
Columbia	Boone	748	33	76.2	+ 1.5	97	11	48	23	31	3.92	+0.88	1.79	0	9	10	13	8	se.	U. S. Weather Bureau
Downing	Schuyler	878	13	75.9	......	98	7	47	22	31	6.53	+3.01	1.50	0	13	13	13	5	s.	E. E. St. Clair
Fayette	Howard	661	43	73.6	− 2.5	96	11†	44	23	32	2.13	−1.09	0.75	0	5	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	35	79.3	+ 2.8	97	4†	48	22	28	3.66	+0.15	0.93	0	10	14	13	4	w.	Westminster College
Gorin	Scotland	700	36	....	......	..	..	..	..	..	6.28	+3.28	1.56	0	13	12	6	13	se.	I. S. McCollom
Hannibal	Marion	534	40	75.6	+ 0.6	98	11	50	23	29	7.29	+3.91	2.74	0	12	14	8	9	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	40	77.4	+ 0.7	100	11	50	23	37	2.35	−0.71	0.75	0	7	20	7	4	n.	Miss Emma Swift
Kirksville	Adair	969	40	74.0	0.0	97	7†	47	22†	31	7.36	+4.04	2.61	0	10	18	6	7	ne.	Prof. J. S. Stokes
Louisiana	Pike	469	42	76.1	+ 1.1	97	7†	47	23	33	7.94	+4.21	3.14	0	7	23	2	6	e.	J. T. Farrell
Macon	Macon	875	30	75.6	− 0.7	100	11†	48	22†	35	7.09	+3.81	1.90	0	13	19	6	6	ne.	W. C. Brown
Mexico	Audrain	800	45	75.5	− 0.6	100	11	46	23	37	4.25	+1.00	1.56	0	12	25	2	4	w.	Mrs. Abbie Snoddy
Palmyra	Marion	652	24	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	.....	W. B. Markell
St. Catharine	Linn	800	13	74.3	+ 0.2	95	14	49	22†	28	9.55	+5.85	2.36	0	13	12	12	7	ne.	L. D. Baker
St. Charles	St. Charles	456	45	78.2	+ 1.5	99	4†	52	23	33	7.02	+3.56	2.15	0	12	14	10	7	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	77.9	+ 0.6	98	11	56	22	26	6.19	+3.53	3.46	0	12	10	10	11	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	77.2	0.0	96	7†	56	22	25	5.93	+0.32	3.16	0	11	12	11	8	n.	St. Louis University
Shelbina	Shelby	779	30	....	......	..	..	..	..	..	6.43	+3.58	2.76	0	7	..	..	..	.....	W. M. Nolin
Steffenville	Lewis	650	30	76.4	− 0.3	98	7	46	23	32	7.26	+3.79	2.10	0	9	17	11	3	ne.	Frank Hall
Unionville	Putnam	1,062	30	73.2	− 1.8	96	7	42	22	34	8.16	+4.20	2.65	0	12	15	8	8	nw.	Geo. W. Davis
Warrenton	Warren	816	41	77.4	+ 1.0	99	4†	50	23	35	5.50	+2.32	2.75	0	12	20	6	5	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	50	74.9	+ 0.3	98	7	51	23	25	3.63	+0.39	1.02	0	15	11	8	12	ne.	U. S. Weather Bureau
Section means and	extremes	.....	..	76.1	+ 0.4	104	14	42	22	39	5.59	+2.02	3.46	0	6	16	10	5	ne.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	32	84.4	+ 4.7	105	11	56	24	35	2.30	−1.27	1.90	0	3	28	2	1	se.	H. E. Averill
Doniphan	Ripley	344	19	79.7	+ 2.3	99	4†	52	24	34	4.12	−0.19	2.45	0	7	18	11	2	s.	W. W. Martin
Jackson	Cape Girardeau	428	33	78.3	+ 2.1	100	12	49	23	36	6.13	+2.52	2.10	0	13	8	15	8	s.	John G. Putz
Marble Hill	Bollinger	470	29	78.8	+ 1.8	101	12	49	23†	37	4.10	+0.60	1.12	0	6	17	11	3	w.	R. A. DeWitt
Parma	New Madrid	281	2	....	......	..	..	..	..	..	2.28	......	1.30	0	3	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	13	....	......	..	..	..	..	..	6.17	+1.63	3.66	0	4	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	329	19	80.8	+ 2.8	100	12	53	24	33	1.57	−2.70	1.30	0	8	15	12	4	s.	Rev. J. A. Gallaher
Vanduser	Scott	304	2	....	......	..	..	..	..	..	2.17	−1.64	1.08	0	4	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	51	78.4	+ 0.6	96	12	57	23	22	2.48	−0.45	0.79	0	10	10	11	10	s.	U. S. Weather Bureau
Section means and	extremes	....	..	80.1	+ 2.4	105	11	49	23†	37	3.46	−0.19	3.66	0	6	16	10	5	s.	
Ozark Plateau.																				
Arcadia	Iron	926	45	76.0	+ 1.5	98	12	45	23	36	2.15	−1.57	1.08	0	7	19	6	6	s.	Arcadia College
Birchtree	Shannon	1,000	29	78.4	+ 2.5	98	5	52	24	34	3.35	−1.04	1.09	0	5	26	3	2	se.	V. H. Kirkendall
Bolivar	Polk	1,071	36	77.6	+ 0.6	102	5	48	23	36	1.71	−1.97	1.60	0	2	26	1	4	s.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	24	....	......	..	..	48	29	27	0.36	−3.91	0.36	0	1	23	7	1	w.	H. E. Dean
Eldon	Miller	934	24	77.8^{b}	+ 1.4	102	11	47	22	40	3.16	−0.82	1.85	0	8	4^{c}	17^{c}	7^{c}	ne.	E. H. Shepherd
Farmington	St. Francois	918	26	76.7	+ 1.9	98	5†	48	23	36	5.87	+2.49	2 25	0	11	14	14	3	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	77.7	+ 1.6	102	4	47	23	39	3.01	−1.40	1.66	0	7	19	9	3	sw.	A. C. Leach
Goodland	Iron	1,000	30	77.8	+ 3.3	103	4†	45	23	38	3.30	−0.73	1.12	0	7	18	11	2	s.	F. M Adams
Greenville	Wayne	381	1	78.2	......	98	12	50	23	35	3.93	......	1.11	0	8	17	13	1	s.	J. J. Amen.
Hollister	Taney	735	20	80.4	+ 2.5	108	14	49	24	46	0.28	−3.69	0.14	0	3	21	6	4	sw.	Mrs. W. P. Chapmann
Houston	Texas	1,280	31	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	.....	Walter T. Beard
Koshkonong	Oregon	958	22	80.1	+ 2.4	98	4†	53	24	38	1.16	−3.29	0.75	0	4	12	13	6	sw.	R. M. Hitt
Lebanon	Laclede	1,265	36	77.6	+ 1.3	102	4	44	23	47	1.80	−1.73	1.42	0	6	19^{a}	4^{a}	7^{a}	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	27	80.6	+ 3.4	103	14	50	23	40	0.74	−3.43	0.58	0	2	24	4	3	se.	C. S. Crow
Mountain Grove	Wright	1,463	26	78.3	+ 3.2	102	14	46	23	39	1.04	−3.36	0.46	0	6	20	8	3	w.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	40	81.2	+ 4.3	104	4†	47	23	44	0.24	−3.85	0.21	0	2	26	4	1	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	39	79.2	+ 3.4	107	5	50	23	36	2.29	−1.79	0.84	0	7	19	10	2	w.	Prof. Elmo G. Harris
Seligman	Barry	1,542	19	81.2	+ 5.6	104	14	53	23	34	0.31	−3.68	0.13	0	3	21	8	2	sw.	Floyd E. Fawver
Seymour	Webster	1,642	17	76.0	+ 1.0	96	4†	46	23	45	3.70	−0.14	1.42	0	5	18	10	3	se.	Ira H. Hailey
Springfield	Greene	1,350	45	78.6	+ 3 8	100	14	54	23	33	0.78	−3.53	0.50	0	6	20	9	2	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	78.5	+ 2.6	108	14	44	23	47	2.18	−2.08	2.25	0	5	20	8	3	s.	
Southwest Plain.																				
Amoret	Bates	831	17	76.6	+ 0.2	99	5†	47	23	37	1.76	−2.25	0.68	0	6	18	8	5	sw.	Darby Fruit Farm
Appleton City	St. Clair	853	31	78.5	+ 0.7	100	5	52	23	32	2.92	−0 82	0.97	0	6	13	14	4	sw.	W. G. Bigelow
Clinton	Henry	765	36	80.8	+ 4.0	103	5†	49	23	38	2.05	−1.31	1.30	0	7	21	8	2	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	77.0	+ 1.2	100	11	43	23	41	1.39	−2.76	0.49	0	7	4	4	23	e.	John H. Patterson
Lamar	Barton	980	42	81.4	+ 3.9	106	14	52	23	41	0.60	−3.58	0.18	0	6	22	8	1	sw.	Jesse A. Mann
Lamonte	Pettis	867	36	78.0	+ 1.3	100	7†	46	23	39	2.52	−1.20	0.86	0	6	20	9	2	sw.	J. E. Wheeler
Marshall	Saline	779	34	76.8^{a}	+ 1.2	100	14	45	23	37	1.73	−1.93	1.00	0	6	12^{b}	14^{b}	3^{b}	ne.	Dr. W. H. Black
Nevada	Vernon	862	31	79.5	+ 2.6	102	14	49	23	35	1.53	−1.98	0.72	0	6	20	5	6	sw.	George A. Kaupp
Warrensburg	Johnson	878	43	79.6	+ 2.6	101	11†	47	23	41	2.10	−1.49	0.67	0	10	9	14	8	sw.	E. A. Markey.
Warsaw	Benton	687	28	79.8	+ 2.4	103	5	48	23	38	2.16	−2.13	1.12	0	10	14	15	2	e.	J. R. Smith, M. D.
Section means and	extremes	.....	..	78.8	+ 2.0	106	14	45	23	41	1.88	−1.94	1.30	0	7	15	10	6	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	34	75.6	− 1.0	97	7	55	24	26	8.20	+4.59	5.25	0	9	12	13	6	sw.	F. G. Ashbaugh
Bethany	Harrison	916	32	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	..	Owen Ross
Chillicothe	Livingston	779	17	74.4	− 1.7	98	14	47	23	32	5.97	+1.31	1.80	0	12	16	12	3	e.	Wm. J. Olenhouse
Conception	Nodaway	980	39	74.6	0.0	99	11	46	22	33	6.19	+2.71	1 45	0	9	8	18	5	ne.	Fr. Adelhelm Hess
Edgerton	Platte	856	11	73.6^{b}	......	93	11†	42	23	33	1.73	−2.11	0.51	0	12	23	5	3	s	Fred L. Stiff
Grant City	Worth	1,134	31	75.4	+ 0.5	97	11†	46	22	35	5.31	+1.68	1.17	0	10	12	17	2	sw.	B. F. Locke
Kansas City	Jackson	963	50	77.3	+ 1.5	99	7	52	22	25	2.88	−1.87	1.52	0	13	14	10	7	n.	U. S. Weather Bureau
Kidder	Caldwell	1,020	36	74.7	− 1.0	100	7†	46	22	34	5.87	−1.96	0.93	0	16	13	7	11	se.	Linn Terry
Lexington	Lafayette	688	41	76.7	+ 0.7	99	11	50	23	32	2.25	−0.98	0.68	0	9	14	8	9	s.	Edwin G Loomis
Liberty	Clay	859	33	77.4	+ 0.4	101	11†	46	23	38	1.46	−2.47	0.61	0	9	14	13	4	sw.	James H. Harris
Maryville	Nodaway	1,169	29	73.2	− 0.4	95	11	45	22	31	5.11	+1.25	1.19	0	15	21	0	10	n.	J. R. Brink
Oregon	Holt	1,048	67	74 2	− 0.8	95	14	47	22	27	3.47	−0.50	1.10	0	13	7	22	2	ne.	Tom Curry
St. Joseph	Buchanan	967	50	76.2	− 1.0	98	11	50	22	31	4.34	+0.73	1.86	0	17	13	15	3	se.	U. S. Weather Bureau
Tarkio	Atchison	916	30	74.6	− 1.0	97	11	44	22†	39	5.20	+1.33	1.37	0	10	13	9	9	se.	Albert Volker
Trenton	Grundy	822	28	74.4	− 0.8	94	11	50	23	25	7.19	+3.57	1.52	0	14	16	11	4	se.	W. H. Estes
Section means and	extremes	.....	..	75.2	− 0.4	101	11†	42	23	39	4.66	+0.56	5.25	0	12	14	11	6	se.	
State means and	extremes	.....	..	77.3	+ 1.3	108	14	42	22†	47	3.99	+0.31	5.25	0	8	16	9	6	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for August, 1923.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri		.37	.50	.15		.83			.14	.04			.02		2.40	.26	.30					.40					.03	.03				5.47
Brunswick‖	Grand			.15	.25		.46		.06	.05	.22					.15	.10	.15					.12					.27	.05				2.03
Clifton Hill	Chariton			.09			.40		.53	.02	.44					.18	.35					.31						.09					2.41
Columbia***	Missouri	T.	.05	.20		1.15	.01		.18	T.				T.		1.74	.15	T.				.29				T.		.15					3.92
Downing	Mississippi	.07		.55	.78	.05	.35		1.14	.08	.05		.20				1.50									.01		.55		1.20			6.53
Fayette‖‖	Missouri			.18		.49	.49	T.								.75	.22					T.						T.					2.13
Fulton	do		.25	.18			.52		.93					.03		.40	.62	.33				.18						.22					3.66
Gorin	Mississippi	.04		.44	.75	.05	.35		1.41		.03		.02				1.56					.15				.10		.37		1.01			6.28
Hannibal***	do	T.		T.	.40	.03	2.74	.01	.18		1.42		.01				2.30	.01				.15				.02		.02					7.29
Hermann‖	Missouri		1.30	.03		.05	1.10	.40			.02						1.05	.77					.10						.08				4.90
Jefferson City‖	do		.45				.35									.75	15	.24					.20						.21				2.35
Kirksville	Mississippi	.10			.98	.05	.58		2.31	.05	.32		.08				2.61					.28											7.36
Louisiana	do			.91			3.14		.51		.54					1.35	1.34						.15					T.	T.				7.94
Macon ‖	Chariton		T.	.03	.08	.03	1.10		1.00	.70	1.35						1.90	.22					.27				.06	.05	.30				7.09
Mexico ‖	Mississippi		03		.12		1.18	.02		.20	.18					.15	1.56	.13	.05				.45					T.	.18				4.25
Milan‖	Grand				.90	.22	.65		.80	.30	.75		T.				1.02	.90					.10				.07		.22				5.93
Pacific‖	Meramec		.21	.39	.10		2.10	.03		1.15	.05	.03			.03	T.	1.10	2.15					.24				T.	.22	.19				7.99
Palmyra‖	Mississippi																																....
St. Catharine	Grand	.06		1.14	.13	.14	.64		1.77	.40	1.73		.01			T	2.36	T.				.27				.05		.85					9.55
St. Charles	Missouri		.06	.16	.02		2.15		1.72		.19					.63	1.43	.36				.15						.10	.05				7.02
St Louis (1)***	Mississippi		.05	.08	.13	.38	.18		3.46		.25					T.	1.23	.06				.19						.16	.02				6.19
St. Louis (2)	do		.07	.18	.12	.51	.15		3.16		.13					T.	1.29	.05				.25						.02					5.93
Shelbina	do						.35		.40	.02	1.42						2.76					.43						1.05					6.43
Steffenville	do	T.		T.	.03	.05	1.50		1.51		1.50		T.				2.10					.12						.40		.05			7.26
Union‖	Meramec		.53	.55	.02		1.40			.27	.34			.09	.02		1.60	4.12					.52				.08	.18	.08				9.80
Unionville	Chariton	.25	T.	.10	2.50	.15	.35		1.75	.30	.90		.10				.85					T.				.26		.65	T.				8.16
Valley Park‖	Meramec		.07	.07			.25	T.		.27	.46	.02		T.		T.	.90	2.64					.18					.35	.08				5.29
Warrenton ‖	Mississippi		.71		.03		2.75	.02		.03	.11						1.38	.07					.18				.01	.01	.20				5.50
Keokuk, Ia.***	do	.01		.02	.74	.04	.23	.29	.66				.08				1.02			.05		.09				T.	.02	.20	.17	.01			3.63
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi		10	.32	.58		.12			1.18	.13			.09			.02	1.62					1.51					.14					5 81
Caruthersville	do		T.	.05	T.				T.	.35	T.				T.	T.			T.				1.90						T.				2.30
Doniphan	Black		.18	.04				.87	.23	25	T.	.10		T.	T.	T.							2.45						T.				4.12
Jackson	Mississippi		.26	.43	.04	1.02			.09	.74	.17		.17		.02	.01		2.10					.73					.35					6.13
Leeper ‖	Black								.60	1.00								1.20					1.37										4.17
Marble Hill	Mississippi		1.12	.97									.10					.56					1.10					.25					4.10
New Madrid‖	do			.07						.91	.41				.01	.02							.81										2.23
Parma	St. Francis			.86						.12													1.30										2.28
Patton (near)	Mississippi		.30															3 66				.81					1.40						6.17
Poplar Bluff	Black		.10			.01			.01		.07				.01			.02				1.30					.05						1.57
Vanduser	Mississippi		.09	.60														.40					1.08										2.17
Cairo, Ill.***	do		.02	.40	.18	.18			.07		.07				T.	.25	T.	.52				.70	.09					T.					2.48
Ozark Plateau.																																	
Annapolis‖	St. Francis								.71		1.16												.88									1.56	4.31
Arcadia ‖	do		.02	.11	.43		T.			.18				.10			.23	T.	T.				1.08					T	T.				2.15
Birchtree	Black								1.09	.30													.79				.95	.22					3.35
Bolivar	Osage															1.60						.11											1.71
Dean	Neosho							T.														.36						T.				T.	0.36
De Soto‖‖	Mississippi		.38				.07	.02							.01		.07	.27				2.58						.04					3.44
Eldon	Missouri					.36	.03				.01						.42	.02				1.85						.27	.20				3.16
Farmington	St. Francis		2.25	.26					.33		.02		T.		T.	.06	.05	1.98				.52	.11				.26	.03					5.87
Fredericktown‖‖	do		.96	.05	1.56	.97	.56												.23				1.56	.86		.47	.22	.15			.05		7.64
Galena‖‖	White																									.64							0 64
Gano	Meramec			T.							.41				T.	.13	.67	.99				.69	.04				T.	.08					3.01
Goodland	Black								.91	.17	.17						.41	.07					1.12					.45					3.30
Greenville	St. Francis		.07				.62		1.11	.07		.89				.04							1.10			T.	.03						3.93
Hollister	White								.04													.10	.14					T.					0.28
Houston	Gasconade																																....
Jerome ‖	do		T.			T.				.14					03	T.	.33	2.04	.08				.39				.15	.03					3.19
Koshkonong	Black								.27		T.				.04	.10							.75										1.16
Lebanon ‖‖	Osage									1.42						.25	.02	.01	T.				.05						.05				1.80
Lockwood	do																										.58		.16				0.74
Mineral Point‖‖	Meramec		1.60	.35					.03							.08						.07											2.13
Mountain Grove‖	White		T.	.30							T.	.13			T.	.02	.04	.09					.46										1.04
Neosho	Neosho							T.										T.				.03						T.	.21				0.24
Rolla	Meramec								.10							.25	.69	.10				.84						T.			.11	.20	2.29
Seligman	Neosho								.07													.11	.13					T.					0.31
Seymour	White								.61	.07					T.	.55		T.				1.42				T.		T.				1.05	3.70
Springfield***	do	T.							T.	T.					T.	.07		.01	T.			.50				.07		.12	.01			T.	0.78
Steelville‖	Meramec		.11				1.33					.81						.31	.11				1.23									.39	4.29
Tuscumbia ‖‖	Osage						.79									.08	.35	.11					1.95				.28	.03					3.59
Willow Springs‖‖	Black		.50							.30	.80				T.	.18						.36					T						2.14
Southwest Plain.																																	
Amoret	Osage	.03				.15			T.					T.		.25		T.				.47					.18	.68					1.76
Appleton City	do	T		T.		.01			.45					T.		.97						.35					.60	.54				T.	2.92
Clinton	do			.15					.28							.18	.02					1.30						.10	.02				2.05
Harrisonville‖	do			.28			.26			.02						.25	.04											.49	.05				1.39
Joplin*	Neosho								.03																	.20		1.34				.08	1.65
Lamar ‖	do								.10	.05							.08										.16	.03	.18				0.60
Lamonte	Missouri	T.		.86		.65			.22							T.						.25				.21		.33					2.52
Marshall	do						.39		T.	.11		T.				1.00						.15				.03		.05					1.73
Nevada	Osage					.09			.04							.30						.18				.72		T.				.20	1.53
Osceola‖	do						.46									.32	10						.75					.45	.15				2.23
Warrensburg	Missouri			.67					.66					.08	.02	.10	.03	T.				.08				.21	.04	.21					2.10
Warsaw	Osage	T.	T.	.10		.03			T.						T.	.15	.28	.15				1.12				.03	.08	.02			.20	T.	2.16
Waverly ‖	Missouri		T.	.62			.06		T.	.71						.10	T.	T.					.09				.55	.20	.07				2.40
Northwest Plateau.																																	
Albany‖‖	Grand	.28		.07		.60	.90	.58	.19	.38						1.00	.41									.03		.60				T.	5.04
Avalon	do		.40		.10	.80			2.35	2.90			T.				.10	.65					.15						.75			T.	8.20
Bethany	do	T.			.41	.17	.73	1.20	.90	3.10					.02																		....
Chillicothe‖‖	do			.29		.08	.51	T.	.04	.66	.70					.31	1.80	.71					.29					.50	.08				5.97
Conception	Missouri	.11		T.	.25	.32	1.03		1.14	.44			T.			T	1.45					T				.03	T.	1.29			T.	.13	6.19
Edgerton	do	.07		.18		.04	.03		.07	.18			T.		T.	.01	.51					.06				.05	T.	47				.06	1.73
Grant City	Grand	.30		.60	.40	.32	.40		.08	1.01	T.						1.17					T.				T.	T.	.92		T.	T.	.11	5.31
Kansas City***	Missouri	.10		1.52		.01	.01	.11	.09						T.	.05	.02	T.				.14				.18	.03	.39				.23	2.88
Kidder ‖	Grand		.10	.18	.02	.28	.65		.10	.33	.69					.58	.61	.93					.38			.04	.03	.90	.05				5.87
Lexington	Missouri			.68			.10		.02	.10								.06					.21				.25	.53	.30				2.25
Liberty	do	.07				T.	.03	.12	.14	T.					T.	T.	.28					.05					.13	.61				.03	1.46
Maryville	do	.15	.01		.22	.59	.83	.05	.08	.53	.07					.10	.80										.09	1.19	.22			.18	5.11
Oregon	do	.05		.08	.03	.07	1.10	.10	.61						.20		.74					.02				T.	.02	.18	T.			.27	3.47
St. Joseph***	do	.03	T.	.08	T.	.15	.25	.11	1.75	.05			.08		.01	.03	.44					.22				.05	.13	.30	.02			.64	4.34
Tarkio	do			.45	.34	.31	.38	.48		.07							1.37									.15	1.05				.60		5.20
Trenton	Grand	.09		.60	.09	.05	.90	T.	.38	.72	.97		T.			1.52	1.08					.14				.02		.29				.34	7.19

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for August, 1923.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	90	91	92	94	93	97	98	90	94	99	101	91	95	104	86	82	75	88	92	94	87	75	85	91	79	91	80	86	92	94	86	90.1
	Minimum	67	70	71	73	69	72	72	73	69	70	72	73	67	68	70	69	63	59	61	64	65	53	48	52	58	58	65	52	58	61	64	64.7
Columbia	Maximum	88	85	86	94	88	93	95	85	90	93	97	91	89	96	85	81	71	80	88	91	87	70	76	86	82	86	79	82	88	90	86	86.4
	Minimum	70	72	69	73	67	72	76	73	69	73	75	73	70	70	67	64	63	66	61	66	63	54	48	57	59	64	65	60	57	65	68	66.1
Fayette	Maximum	86	86	84	91	88	93	95	84	88	91	96	91	90	96	79	78	68	81	88	89	87	71	74	83	77	81	72	79	85	84	83	84.5
	Minimum	66	70	66	72	66	68	74	72	66	68	70	72	66	66	66	60	60	60	56	60	65	50	44	53	52	58	62	57	54	60	63	62.6
Hannibal	Maximum	90	90	88	92	86	92	97	80	86	93	98	84	86	96	88	76	75	84	91	90	84	69	75	84	79	86	78	80	83	85	87	85.5
	Minimum	70	72	73	71	69	71	78	71	70	69	76	73	63	67	67	63	63	60	65	67	62	54	50	58	59	64	65	61	59	62	66	65.7
Jefferson City §§	Maximum	90	82	92	97	90	95	98	87	90	96	100	93	90	99	85	88	69	82	90	91	90	70	78	91	84	90	78	82	90	94	87	88.3
	Minimum	67	70	70	72	70	70	75	75	70	72	73	78	70	70	70	69	64	65	60	64	69	60	50	54	60	62	67	60	58	60	66	66.4
Kirksville	Maximum	85	84	92	88	83	85	97	88	83	89	95	86	87	97	89	78	78	86	92	89	72	72	78	86	79	87	77	83	85	86	83	85.1
	Minimum	67	65	70	68	67	68	74	66	65	69	72	69	58	66	63	59	59	60	64	69	65	47	47	57	54	60	63	58	57	59	66	62.9
Louisiana	Maximum	93	94	90	90	92	86	97	95	88	88	97	96	85	93	90	88	78	85	90	92	90	88	76	85	85	87	87	80	88	90	87	88.7
	Minimum	62	70	68	68	68	70	75	71	70	72	75	75	62	64	63	63	65	58	60	65	68	55	47	55	52	55	62	62	55	55	60	63.5
Macon §§	Maximum	92	92	93	91	90	96	99	84	91	95	100	87	92	100	92	73	76	89	92	93	86	75	78	86	84	87	76	83	88	75	83	87.9
	Minimum	66	67	69	71	67	69	69	67	65	66	69	72	61	65	66	65	60	60	64	65	68	48	48	55	55	59	64	57	62	58	63	63.2
Mexico §§	Maximum	89	89	88	99	87	94	98	81	89	94	100	98	89	98	88	80	72	85	91	92	89	70	78	86	85	86	80	84	84	90	88	87.8
	Minimum	63	67	68	68	68	68	71	72	68	67	68	73	65	68	67	65	61	58	60	61	65	55	46	49	53	56	65	59	56	60	65	63.2
St. Catharine	Maximum	86	86	92	83	80	84	94	89	84	87	94	86	87	95	87	80	74	82	88	87	81	69	77	83	78	85	78	80	83	83	79	83 9
	Minimum	69	67	71	72	69	69	75	69	67	68	73	70	61	69	69	60	60	60	64	67	67	49	49	58	58	63	64	58	60	62	68	64.7
St. Louis(1)	Maximum	89	83	86	96	91	88	96	89	87	90	98	93	87	95	86	78	75	82	89	89	91	70	75	85	85	89	80	81	86	88	86	86.5
	Minimum	73	73	74	74	71	73	78	69	69	71	78	78	73	74	75	65	65	65	67	70	65	56	59	60	68	67	69	65	65	69	71	69.3
Unionville	Maximum	85	89	93	87	78	88	96	95	85	88	95	91	88	94	91	81	80	84	90	87	80	72	78	84	80	84	80	82	84	85	82	85.7
	Minimum	64	64	66	65	66	64	64	66	65	66	70	68	56	66	60	58	58	56	64	64	66	42	44	57	50	56	62	56	57	57	66	60.7
Warrenton §§	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Southeast Lowlands.																																	
Caruthersville	Maximum	96	92	97	98	98	100	100	98	100	98	105	103	104	97	102	100	100	95	98	100	100	95	85	90	95	95	93	92	96	98	98	97.3
	Minimum	72	75	75	78	78	78	77	75	72	72	74	77	77	78	78	72	77	72	68	65	70	61	62	56	72	66	66	66	70	68	68	71.5
Doniphan	Maximum	93	88	94	99	99	98	98	94	95	95	96	98	93	95	92	95	92	85	91	93	97	89	78	85	90	91	85	88	91	92	90	92.2
	Minimum	66	74	71	75	77	74	72	73	71	69	70	73	73	73	73	70	71	67	62	60	63	60	55	52	60	66	68	66	60	59	60	67.2
Jackson	Maximum	93	84	97	92	93	95	97	96	92	90	97	100	95	96	89	91	85	83	89	93	94	83	75	86	87	89	85	84	89	92	91	90.4
	Minimum	67	69	69	72	72	73	75	75	71	71	71	75	72	71	71	69	67	66	59	62	65	58	49	50	60	60	66	65	59	61	62	66.2
Poplar Bluff	Maximum	93	88	94	99	96	97	98	97	98	96	97	100	97	94	97	97	93	88	94	96	96	90	80	85	89	88	85	88	88	91	91	92.9
	Minimum	68	75	72	75	78	75	75	73	73	70	71	75	75	72	74	71	72	68	64	63	67	61	55	53	63	67	69	68	65	61	63	68.7
Cairo, Ill.	Maximum	89	85	85	89	90	93	92	91	90	84	93	96	90	92	91	88	79	82	86	89	90	70	72	80	84	85	85	83	86	88	87	86.6
	Minimum	73	77	68	71	71	76	78	76	74	72	73	77	76	75	70	73	69	68	67	70	70	60	57	58	63	68	71	70	67	68	69	70.2
Ozark Plateau.																																	
Arcadia §§	Maximum	87	86	86	97	95	94	96	89	88	89	93	98	87	94	80	87	75	82	90	90	95	70	75	84	87	90	80	84	88	90	87	87.5
	Minimum	63	68	68	71	74	70	72	72	69	69	73	73	71	68	69	69	70	66	55	59	61	57	45	48	53	65	66	62	54	58	62	64.5
Birchtree	Maximum	86	83	86	97	98	94	94	88	88	91	93	96	92	94	88	94	86	81	92	90	86	80	80	86	91	91	80	85	89	81	85	88.6
	Minimum	67	74	73	74	76	72	72	71	70	69	72	73	74	73	72	70	70	68	70	70	60	70	62	52	62	66	69	64	60	60	62	68.3
Eldon	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	....
Farmington	Maximum	91	83	86	96	98	95	97	81	85	91	98	96	93	93	84	93	77	84	85	92	95	71	74	85	84	90	83	81	86	88	90	87.9
	Minimum	66	66	70	70	74	71	73	72	71	70	72	75	72	69	70	69	68	63	59	63	63	57	48	49	61	63	65	63	57	60	63	65.5
Hollister	Maximum	93	95	101	102	98	102	100	101	100	100	101	102	105	108	101	106	92	90	95	96	92	95	85	95	92	101	95	98	98	96	97	97.8
	Minimum	62	71	75	69	69	70	68	70	68	70	66	68	70	70	72	70	72	70	58	54	52	60	50	49	50	55	58	59	50	50	55	62.9
Koshkonong	Maximum	91	85	91	98	98	97	96	96	91	95	95	98	97	96	97	96	95	86	90	94	96	78	77	85	92	90	84	86	91	89	90	91.6
	Minimum	67	74	74	76	77	73	73	73	72	72	72	74	74	75	75	74	71	70	63	65	66	60	54	53	54	68	69	66	62	65	65	68.6
Lebanon §§	Maximum	89	88	94	102	101	97	99	93	92	98	98	99	94	98	94	101	70	85	92	92	97	75	81	93	91	92	79	86	94	96	91	92.0
	Minimum	65	68	69	71	72	70	71	70	68	68	71	72	69	69	67	67	67	63	55	60	60	59	44	46	56	52	58	58	54	55	61	63.1
Mountain Grove §§	Maximum	85	89	89	97	98	94	95	90	92	97	97	98	95	102	91	98	79	86	93	92	93	86	79	89	96	97	80	86	92	91	87	91.4
	Minimum	66	68	73	74	74	72	72	69	69	68	72	72	71	73	70	69	69	61	56	59	61	61	46	51	60	62	67	61	53	57	64	65.2
Neosho	Maximum	100	97	101	104	103	101	99	94	96	96	98	99	102	104	99	101	101	90	95	98	98	87	83	92	96	93	92	87	92	92	90	96.1
	Minimum	69	75	73	73	73	74	73	71	72	75	73	74	71	76	73	75	65	66	55	54	68	63	47	52	58	63	68	58	52	58	58	66.3
Rolla	Maximum	97	83	95	104	107	98	97	91	90	96	98	99	96	97	91	96	82	82	91	91	94	75	78	90	84	88	84	84	91	90	88	91 2
	Minimum	67	74	73	72	73	75	74	72	71	72	73	73	72	75	70	66	68	66	62	64	69	57	50	54	61	64	71	62	59	61	66	67.3
Springfield	Maximum	86	87	93	99	99	94	93	89	90	93	95	96	94	100	91	97	74	82	87	88	95	72	76	87	92	89	76	82	89	88	85	89.0
	Minimum	69	73	72	76	77	75	74	72	72	73	73	75	73	76	69	74	66	66	62	67	62	59	54	60	63	66	64	61	60	66	66	68.2
Southwest Plain.																																	
Amoret	Maximum	92	85	91	95	99	94	97	90	96	98	99	98	88	94	92	88	75	84	89	88	84	84	80	90	90	80	82	81	93	92	91	89.6
	Minimum	68	68	70	73	62	72	72	70	67	72	72	71	68	70	70	70	61	63	56	56	54	52	47	53	58	62	62	56	58	60	57	63.5
Appleton City	Maximum	92	86	92	98	100	96	99	88	94	96	98	98	90	91	90	90	77	86	90	92	93	74	80	90	88	84	80	83	92	93	86	89.9
	Minimum	70	72	72	73	71	75	75	73	71	73	73	74	72	74	71	70	63	66	62	66	68	55	52	58	61	61	66	59	60	62	63	67.1
Clinton	Maximum	98	90	99	102	103	103	102	95	100	101	100	100	98	93	96	95	85	91	95	97	95	72	82	95	90	91	85	90	93	98	89	94.3
	Minimum	70	72	72	75	75	73	76	75	71	74	74	75	71	70	73	72	65	67	62	66	68	55	49	57	58	60	65	60	58	65	66	67.4
Harrisonville §§	Maximum	88	85	89	93	97	94	99	87	96	97	100	97	91	91	87	83	73	87	93	91	92	78	84	93	83	80	75	86	92	93	84	89.0
	Minimum	68	69	68	68	70	71	72	73	69	69	70	72	70	72	69	70	61	62	61	66	68	52	48	52	58	61	61	58	59	63	64	65.0
Lamar §§	Maximum	103	98	102	105	104	102	101	91	98	99	100	103	99	106	98	101	78	86	94	97	99	77	83	93	99	90	84	86	95	97	92	95.5
	Minimum	68	73	73	75	73	78	75	75	71	73	74	75	73	74	75	75	64	63	58	60	63	58	52	55	58	62	67	62	57	62	65	67.3
Lamonte	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Marshall	Maximum	89	90	88	92	94	96	98	89	91	96	98	90	..	100	86	82	73	86	93	91	90	89	80	91	83	91	80	88	90	94	86	ᵃ89.5
	Minimum	68	59	68	72	68	70	74	72	69	70	70	80	..	71	67	68	64	66	59	61	60	60	45	54	55	60	52	54	57	68	65	ᵃ64.2
Nevada	Maximum	95	87	96	100	101	98	98	87	94	96	98	100	88	102	93	91	78	82	89	91	96	74	79	92	93	88	82	83	91	93	85	91.1
	Minimum	72	72	73	74	72	78	75	73	73	73	75	76	71	76	70	77	63	63	56	59	67	55	49	59	62	70	67	62	59	66	67	67.9
Warrensburg	Maximum	93	88	92	96	93	98	100	92	98	98	101	97	101	100	86	87	74	91	97	96	97	76	85	95	95	86	87	85	95	99	91	92 5
	Minimum	71	70	68	74	71	70	74	72	70	72	72	72	71	82	70	67	62	67	59	64	67	53	47	54	58	64	65	57	77	63	69	66.8
Warsaw	Maximum	91	87	96	102	103	100	101	96	100	100	101	100	94	92	96	95	77	86	94	95	96	75	81	90	89	88	82	84	92	94	90	92.5
	Minimum	68	72	70	75	81	76	76	73	70	75	74	77	71	74	72	74	64	67	56	60	68	57	48	56	56	64	65	60	54	60	66	67.1
Northwest Plateau.																																	
Chillicothe §§	Maximum	86	88	91	89	81	88	96	84	90	93	97	85	89	98	84	72	75	84	90	90	89	70	79	85	83	87	77	83	85	85	84	85.7
	Minimum	70	66	67	72	68	69	70	71	67	69	72	70	62	67	55	65	60	56	60	65	68	48	47	53	55	60	60	56	58	61	66	63.0
Grant City	Maximum	87	91	93	89	81	86	96	90	88	89	97	94	90	97	92	83	80	89	95	90	84	74	82	90	85	86	84	88	88	85	80	87.8
	Minimum	68	62	70	67	66	67	72	68	67	70	70	70	61	65	68	60	60	57	62	65	65	46	47	55	59	60	63	55	58	62	65	62.9
Kansas City	Maximum	85	81	89	90	89	95	99	86	93	96	98	86	90	96	85	77	71	85	89	90	83	70	81	86	81	82	77	84	86	91	83	86.3
	Minimum	74	67	70	72	70	72	78	73	70	79	77	78	71	75	72	62	60	61	67	73	60	52	56	64	66	68	66	62	65	67	70	68.3
Kidder §§	Maximum	85	89	93	87	82	90	100	85	91	94	99	85	91	100	85	70	76	87	93	94	78	74	83	87	82	86	78	85	89	89	82	86.7
	Minimum	64	64	67	70	63	67	68	70	68	70	70	70	63	67	66	65	59	59	61	65	67	46	49	54	57	54	63	57	58	61	63	62.7
Lexington §§	Maximum	86	85	87	90	90	97	98	86	91	97	99	89	88	97	86	79	72	86	95	92	88	73	82	88	80	83	75	84	90	94	83	87.4
	Minimum	71	67	70	73	70	71	76	70	70	71	72	73	67	70	72	66	61	60	64	64	71	51	50	60	57	63	65	60	59	64	69	66.0
Maryville	Maximum	82	84	87	81	80	83	91	81	87	87	95	88	87	91	84	75	77	81	89	87	78	71	80	85	82	82	78	82	84	79	79	83.3
	Minimum	68	63	71	67	65	67	67	67	67	70	70	71	61	67	68	60	60	57	66	65	63	45	49	56	59	62	63	56	56	64	64	63.0
Oregon	Maximum	84	84	90	87	83	84	90	84	85	86	93	86	84	95	87	80	79	78	84	88	80	68	78	83	80	82	77	81	84	85	81	83.5
	Minimum	70	64	70	70	66	68	68	68	69	69	71	70	61	71	70	60	62	60	63	79	64	47	51	60	61	65	61	57	58	65	64	61.8
St. Joseph	Maximum	81	85	92	88	82	94	95	86	91	95	98	84	91	97	85	74	75	81	91	91	78	72	80	87	85	87	77	85	89	92	84	86.4
	Minimum	70	65	71	73	70	70	75	69	70	72	77	71	67	72	74	62	61	61	65	67	58	50	52	60	62	66	64	60	58	67	67	66.0
Trenton	Maximum	85	86	88	83	80	85	93	83	88	88	94	85	84	93	86	80	77	81	86	88	77	68	75	81	78	83	80	80	81	83	82	83.3
	Minimum	67	68	70	72	68	69	72	71	70	71	71	70	63	71	71	63	61	62	66	68	62	51	50	60	61	62	65	63	61	63	67	65.5

ᵃ, ᵇ, ᶜ, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVII. COLUMBIA, MO., SEPTEMBER, 1923. No. 9.

GENERAL SUMMARY.

There was nothing of special interest about the weather elements of September, 1923, in Missouri. Temperatures differed but little from the usual, but there was more cloudiness and more rain than ordinarily, the last element being more pronounced over the western half of the State than in the other sections.

A cool wave overspread the State about the middle of the month, resulting in quite a sudden change from summer warmth to autumn values. There was a light frost deposit at a few stations along the northern border on the fourteenth, but there was no apparent damage to vegetation. This change to colder weather so early in the month was somewhat out of the usual, but other Septembers show cool spells along about the middle of the month. The date of earliest freezing temperature in about 36 years is September 18th (1901).

The general conditions were favorable for farming interests. At the close of the month 85 per cent of the corn crop was fully matured or safe from frost damage. Wheat seeding was going forward rapidly.

TEMPERATURE.

The monthly mean temperature for the State, based upon the records of 73 stations, was 68.7°, or practically normal as compared with the average of 36 years' record. The temperature distribution was quite uniform, the variations above and below the normal in the five divisions being less than 1°. As compared with other Septembers the present month is the coolest since 1918. The first five and the last seven days of the month were the warmest, and during both periods the afternoon temperatures ranged around and above 90° on one or more days. Generally the coolest period prevailed from about the 13th to the 16th, when the minima ranged from about 45° down to 33°, the latter occurring on the 14th. Frost, resulting in little or no damage, was observed in low places along the northern border.

PRECIPITATION.

The average precipitation for the State, based upon the records of 95 stations, was 4.47 inches. The departure from the 56 years' average was plus 0.74 inch. The western half of the State was wetter than the eastern half, the rainfall over the latter being nearly normal while over the former the normal was considerably exceeded; excessive rainfall, however, was confined to a few counties, namely, Jackson, Pemiscot, Dade, Barton, Holt, Schuyler, and Scotland. The rain spells were well defined and occurred at quite regular intervals, the 6-7th, 16th to the 20th, and the 27th probably being the most general. The greatest amount in any 24 consecutive hours was 5.26 inches, at Oregon, Holt County, on the 29-30th.

WIND.

The prevailing winds were from the southeast. The total wind movement, based upon the records of 8 stations equipped with anemometers was 5,330 miles, or an hourly velocity of 7.4 miles. This is about 7 per cent less than normal. There were no damaging winds.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well-placed stations equipped with sunshine recorders reporting, was 215. This is about 58 per cent of the possible, and about 7 per cent less than normal. September, 1922, had 20 per cent more sunshine than the present month.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---2d, 3d, 4th, 22d, 24th, 28th, and 29th, mostly along the Mississippi River north of St. Louis.

Frosts, light.---At a few of the most northern stations on the 14th, and 16th.

Hail.---At Kansas City, Lockwood, and Seymour on the 26th; at Oregon on the 28th. Stones small; no damage.

Halos, solar.---2d, 14th, 15th, 23d, 24th, 26th, 28th, and 29th.

Halos, lunar.---15th, 25th, and 26th.

Thunderstorms.---More or less general on the 1st, 5th, 6th, 11th. 26th, 27th, 29th, and 30th. Local thundershowers on other dates.

SPECIAL STORM NOTES.

Clinton.---There was a severe electrical storm on the 5th, with some high wind; and quite a severe thunderstorm on the 30th. No damage reported.

Seymour.---During a thunderstorm on the 26th, lightning struck and burned a barn on the S. E. Trimble Farm, about two and one-half miles northeast ot this place. Some feed, harness, a buggy, two calves, and one horse were lost.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Max. velocity. Direction.	Max. velocity. Date.
Columbia	30.01	90	74	214	57	4,274	5.9	24	nw.	25
Hannibal	30.03	89	..	...	..	4,897	6.8	27	sw.	8
KansasCity	30.00	82	64	280	75	6,151	8.5	41	nw.	6
St. Joseph	29.99	88	68	238	64	4,844	6.7	33	nw.	29
St. Louis	30.04	85	69	168	45	7,220	10.0	32	sw.	20
Springfield	30.03	85	66	196	53	6,386	8.9	26	se.	16
Cairo, Ill	30.04	89	75	...	..	4,577	6.4	26	sw.	20
Keokuk, Iowa	30.05	83	65	194	52	4,293	6.0	26	sw.	8

COMPARATIVE DATA FOR SEPTEMBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	65.2	−3.7	97	28	1.11	−2.56	......	0	4	....	....	....
1889	64.7	−4.2	94	31	4.66	+0.99	......	0	11	....	....	....
1890	63.7	−5.2	98	34	3.98	+0.31	......	0	9	....	....	....
1891	70.6	+1.7	104	30	0.63	−3.04	......	0	6	....	....	....
1892	67.8	−1.1	97	32	2.39	−1.26	3.00	0	4	19	6	5
1893	69.9	+1.0	107	26	3.92	+0.25	5.20	0	6	17	7	6
1894	68.5	−0.4	101	34	4.93	+1.26	3.07	0	5	13	11	6
1895	71.8	+2.9	104	25	2.45	−1.22	6.21	0	4	19	8	3
1896	65.0	−3.9	101	28	4.17	+0.50	4.40	0	10	11	10	9
1897	74.3	+5.4	105	27	0.74	−2.93	2.13	0	2	23	5	2
1898	70.9	+2.0	103	30	6.74	+3.07	6.10	0	9	15	9	6
1899	67.4	−1.5	108	16	2.04	−1.63	3.01	0	4	20	6	4
1900	71.1	+2.2	100	29	4.81	+1.14	3.79	0	10	13	10	7
1901	68.9	0.0	103	27	2.31	−1.36	2.80	0	6	18	8	4
1902	63.2	−5.7	95	30	4.78	+1.11	6.55	0	10	15	6	9
1903	66.4	−2.5	98	32	4.41	+0.74	6.77	0	8	17	6	7
1904	69.6	+0.7	96	34	3.85	+0.18	2.46	0	3	16	8	6
1905	69.6	+0.7	98	41	7.67	+4.00	7.90	0	10	15	6	9
1906	71.9	+3.0	98	36	4.15	+0.48	4.28	0	11	15	8	7
1907	68.9	0.0	101	31	1.93	−1.74	2.25	0	6	18	7	5
1908	71.6	+2.7	99	28	1.80	−1.87	2.68	0	4	18	8	4
1909	68.7	−0.2	105	28	4.62	+0.95	4.48	0	8	18	6	6
1910	69.5	+0.6	97	34	5.53	+1.91	4.63	0	10	14	6	10
1911	73.7	+4.6	105	39	7.13	+3.46	7.75	0	11	13	7	10
1912	68.6	−0.3	105	27	3.06	−0.61	3.61	0	9	17	5	8
1913	69.4	+0.5	109	27	4.63	+0.79	4.08	0	9	13	7	10
1914	69.6	+0.5	99	35	6.27	+2.52	9.22	0	9	15	8	7
1915	70.6	+1.5	98	34	5.25	+1.51	5.91	0	7	16	7	7
1916	67.8	−1.5	101	27	2.94	+0.86	2.80	0	6	19	7	4
1917	67.9	−1.2	101	33	2.78	−1.09	4.13	0	5	19	6	5
1918	62.3	−6.7	96	29	4.73	+0.77	6.61	0	7	17	6	7
1919	71.4	+2.7	104	38	3.29	−0.54	4.93	0	5	20	6	4
1920	70.0	+1.4	100	31	4.81	+0.92	4.10	0	9	17	7	6
1921	73.4	+4.7	104	34	7.03	+3.15	5.45	0	13	13	9	8
1922	71.7	+2.6	107	34	3.31	−0.57	5.36	0	5	21	5	4
1923	68.7	−0.3	98	33	4.59	+0.86	5.26	0	11	12	9	9
......	......	....	.....	.....	....	......	......	....	....	....	....	....
......	......	......	.....	.....	.....	......	......	....	....	....	....	....

Climatological Data for September, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	43	69.0	+ 2.3	93	4	38	15	38	5.51	+1.12	0.97	0	14	15	0	15	se.	O. K. Benecke
Clifton Hill	Randolph	731	24	66.4	− 2.5	89	28	41	14	35	3.39	−1.47	0.78	0	13	8	12	10	......	Dr. A. J. Bradsher
Columbia	Boone	748	33	68.2	+ 0.4	88	28	44	22	32	3.03	+0.18	1.03	0	11	8	12	10	se.	U. S. Weather Bureau
Downing	Schuyler	878	13	67.5	......	89	4	36	14	32	11.83	+7.12	2.90	0	13	10	12	8	s.	E. E. St. Clair
Fayette	Howard	661	43	64.9	− 3.4	84	4†	42	14†	30	4.18	−0.65	1.75	0	11	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	35	69.0	+ 0.1	90	28†	40	15	37	2.84	−1.55	0.55	0	11	11	9	10	w.	Westminster College
Gorin	Scotland	700	36	....	......	..	..	..	..	..	7.72	+3.43	3.68	0	15	6	9	15	se.	I. S. McCollom
Hannibal	Marion	534	40	67.4	− 0.3	87	28	43	14	32	3.69	+0.13	1.07	0	13	6	12	12	e.	U. S. Weather Bureau
Jefferson City	Cole	557	40	69.3	+ 0.2	90	11†	45	22†	33	3.22	−0.06	0.65	0	10	17	5	8	n.	Miss Emma Swift
Kirksville	Adair	969	40	66.0	0.0	88	4	36	14	33	4.42	+0.11	0.88	0	13	11	6	13	ne.	Prof. J. S. Stokes
Louisiana	Pike	469	42	66.8	− 1.1	90	1	34	16	33	4.55	+0.60	1.95	0	9	16	6	8	n.	J. T. Farrell
Macon	Macon	875	30	65.6	− 2.7	88	3†	36	14	35	3.94	−0.27	0.67	0	15	13	8	9	se.	W. C. Brown
Mexico	Audrain	800	45	67.0	− 1.6	90	29	43	15†	33	1.88	−2.80	1.02	0	9	18	0	12	e.	Mrs. Abbie Snoddy
Palmyra	Marion	652	24	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	W. B. Markell
St. Catharine	Linn	800	13	66.6	− 1.2	86	4	38	14	30	5.31	+1.21	1.55	0	14	12	12	6	s.	L. D. Baker
St. Charles	St. Charles	456	45	68.8	+ 0.9	91	28	43	15	32	2.48	−0.80	1.12	0	7	7	5	18	se.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	69.0	− 1.1	88	28	47	14	23	3.51	+0.60	1.08	0	13	7	6	17	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	68.6	− 1.6	88	28	47	14	26	4.62	−0.02	1.12	0	12	7	9	14	se.	St. Louis University
Shelbina	Shelby	779	30	....	......	..	..	..	..	..	2.92	−1.06	0.65	0	10	..	..	..	.....	W. M. Nolin
Steffenville	Lewis	650	30	69.6	+ 0.5	92	3†	35	14	37	6.20	+2.01	2.10	0	13	12	11	7	s.	Frank Hall
Unionville	Putnam	1,062	30	66.1	− 1.1	88	4†	33	14	37	4.31	−0.30	1.50	0	15	12	8	10	n.	Geo. W. Davis
Warrenton	Warren	816	41	68.8^{a}	0.0	93	28	43	14†	35	2.47	−1.57	0.57	0	12	16	9	5	sw.	Prof. A. W. Ebeling
Keokuk, Iowa.	Lee, Ia.	574	50	67.1	− 0.4	88	4	40	14	29	4.64	+0.67	1.27	0	12	8	6	16	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	67.6	− 0.7	93	4†	33	14	38	4.39	+0.30	3.68	0	12	11	8	11	se.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	32	75.2	+ 1.8	98	28†	55	15	39	6.80	+3.70	2.00	0	10	13	6	11	e.	H. E. Averill
Doniphan	Ripley	344	19	70.6	− 0.2	89	28†	48	23	33	2.52	−1.12	0.65	0	10	10	11	9	ne.	W.W. Martin
Jackson	Cape Girardeau	428	33	69.7	− 0.2	92	28	45	16	32	3.78	+0.23	1.63	0	8	5	11	14	s.	John G. Putz
Marble Hill	Bollinger	470	29	70.2	− 0.2	92	28	45	16	32	4.36	+0.73	1.62	0	9	14	12	4	s.	R.A. DeWitt
Parma	New Madrid	281	2	....	......	..	..	..	..	..	5.48	......	1.00	0	10	..	..	..	......	J.E. Pearce
Patton (near)	Bollinger	500	13	....	......	..	..	..	..	..	1.23	−1.98	0.65	0	2		..	..	......	George F. Ellis.
Poplar Bluff	Butler	329	19	71.2	− 0.1	92	29	52	15†	29	4.96	+1.38	1.77	0	12	12	12	6	sw.	Rev.J. A. Gallaher
Vanduser	Scott	304	2	....	......	..	..	..	..	..	2.72	−0.14	0.81	0	9	..	..	..	...	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	51	70.6	− 0.9	90	28	50	16	24	3.48	+1.01	1.23	0	9	6	8	16	s.	U. S. Weather Bureau
Section means and	extremes	....	..	71.2	0.0	98	28†	45	16	39	3.93	+0.48	2.00	0	9	10	10	10	s.	
Ozark Plateau.																				
Arcadia	Iron	926	45	67.0	− 0.6	89	28	42	15	31	3.41	−0.23	1.55	0	10	15	5	10	s.	Arcadia College
Birchtree	Shannon	1,000	29	....	...	..	..	..	..	..	2.54	−1.05	0.80	0	6	12^{h}	1^{b}	9^{b}	sw.	V. H. Kirkendall
Bolivar	Polk	1,071	36	69.3	− 0.3	90	10†	45	21	35	3.99	−0.11	1.12	0	12	12	11	7	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	24	....	......	..	..	41	22	32	3.83	+0.21	1.56	0	8	17	2	11	e.	H. E. Dean
Eldon	Miller	934	24	67.8	− 1.5	95	1	44	15	42	4.12	+0.32	0.84	0	12	7	11	12	se.	E. H. Shepherd
Farmington	St. Francois	918	26	67.4	− 1.9	90	29	44	15†	31	4.98	+1.76	2.36	0	9	11	11	8	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	67.3	− 2.2	90	28	43	23	36	3.68	−0.58	1.27	0	11	13	8	9	se.	A. C. Leach
Goodland	Iron	1,000	30	68.6	+ 1.3	92	29	45	15	39	3.63	−0.10	1.75	0	7	14	8	8	s.	F. M Adams
Greenville.	Wayne	381	1	70.0	......	92	29	46	16	35	3.62	......	0.96	0	12	16	7	7	s.	J. J. Amen.
Hollister	Taney	735	20	71.0	− 0.6	96	11	46	8	43	1.65	−2.06	1.00	0	3	13	8	9	sw.	Mrs. W. P. Chapmann
Houston	Texas	1,280	31	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..		Walter T. Beard
Koshkonong	Oregon	958	22	70.6^{h}	− 0.3	89	8†	50	15	30	3.23	−0.26	1.06	0	8	9^{b}	7^{b}	12^{b}	sw.	R. M. Hitt
Lebanon	Laclede	1,265	36	68.4	− 1.1	91	3†	42	23	38	3.31	−0.78	0.75	0	15	12	3	15	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	27	70.6	− 0.7	96	28	49	22	31	8.97	+4.97	4.45	0	7	17	5	8	se.	C. S. Crow
Mountain Grove	Wright	1,463	26	68.7	+ 0.3	90	11	47	22	31	1.67	−2.37	0.32	0	12	11	10	9	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	40	71.6	+ 1.3	94	3	45	22	38	4.36	+0.14	2.35	0	9	15	10	5	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	39	69.4	+ 1.4	88	11	48	14†	28	4.18	+0.34	1.01	0	14	16	8	6	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	19	69.8	+ 1.0	90	10	49	22	32	5.68	+1.56	1.44	0	10	11	10	9	sw.	Floyd E. Fawver
Seymour	Webster	1,612	17	67.6	− 1.0	87	3†	43	22	36	3.69	−0.89	1.00	0	7	10	14	6	se.	Ira H. Hailey
Springfield	Greene	1,350	45	69.2	+ 1.3	88	10	52	22	27	3.82	+0.06	1.59	0	12	11	12	7	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	69.1	− 0.2	96	11†	41	22	43	3.91	+0.05	4.45	0	10	13	8	9	sw.	
Southwest Plain.																				
Amoret	Bates	831	17	69.2	+ 0.5	92	10	46	15	36	7.46	+3.56	1.67	0	9	12	9	9	sw.	Darby Fruit Farm
Appleton City	St. Clair	853	31	70.5	+ 0.2	92	3	49	22	36	4.45	+0.78	1.12	0	12	12	15	3	se.	W. G. Bigelow
Clinton	Henry	765	36	73.5^{a}	+ 3.3	98	3	48	22	40	4.00	+0.18	1.00	0	10	16^{a}	9^{a}	4^{a}	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	68.7	+ 0.4	91	8	49	14†	38	6.34	+1.98	1.51	0	11	7	2	21	s.	John H. Patterson
Lamar	Barton	980	42	70.0	− 0.6	94	10	50	23	36	8.41	+4.17	1.60	0	13	11	9	10	ne.	Jesse A. Mann
Lamonte	Pettis	867	36	70.2	+ 0.1	94	4	46	15†	40	4.46	−0.04	0.71	0	11	15	8	7	e.	J. E. Wheeler
Marshall	Saline	779	34	69.8^{a}	+ 1.5	91	4	44	14†	36	5.61	+0.73	2.00	0	11	11^{b}	10^{b}	7^{b}	ne.	Dr. W. H. Black
Nevada	Vernon	862	31	70.6	+ 1.5	92	11	51	22	32	5.02	+0.86	0.88	0	11	13	11	6	n.	George A. Kaupp
Warrensburg	Johnson	878	43	71.4	+ 1.3	93	4	48	14	37	7.88	+4.29	2.00	0	10	10	11	9	e.	E. A. Markey.
Warsaw	Benton	687	28	70.8	+ 0.8	92	3	46	22	39	5.43	+1.11	1.75	0	12	7	23	0	e.	J. R. Smith, M. D.
Section means and	extremes	.....	..	70.5	+ 0.9	98	3	44	14†	40	6.00	+1.86	2.00	0	11	11	11	8	e.	
Northwest Plateau.																				
Avalon	Livingston	730	34	68.0	− 1.6	88	3†	45	14	29	6.30	+1.24	3.75	0	9	11	11	8	.....	F. G. Ashbaugh
Bethany	Harrison	916	32	67.2	+ 0.2	96	4	34	14	49	3.68	−0.18	1.10	0	10	12	11	7	sw.	Owen Ross
Chillicothe	Livingston	779	17	66.4	− 3.2	89	4	38	14	35	4.62	−1.12	0.84	0	13	12	8	10	e.	Wm. J. Olenhouse
Conception	Nodaway	980	39	67.2	0.0	90	3	38	14	40	6.44	+2.59	1.96	0	11	10	16	4	se.	Fr. Adelhelm Hess
Edgerton	Platte	856	11	66.0^{d}	......	87	24	43	23	32	4.20	+0.92	1.10	0	13	20^{a}	1^{a}	8^{a}	se.	Fred L. Stiff
Grant City	Worth	1,134	31	68.3	+ 1.3	93	3	38	14	38	5.21	+1.22	1.66	0	9	12	16	2	sw.	B. F. Locke
Kansas City	Jackson	963	50	69.2	+ 1.7	89	3	49	14	27	9.61	+5.85	2.83	0	12	11	13	6	se.	U. S. Weather Bureau
Kidder	Caldwell	1,020	36	67.0	− 0.7	91	3	40	14	36	7.29	+3.05	2.20	0	12	14	7	9	se.	Linn Terry
Lexington	Lafayette	688	41	68.1	− 0.4	90	3	46	15†	33	5.99	+1.55	1.45	0	15	12	9	9	s	Edwin G. Loomis
Liberty	Clay	859	33	69.4	0.0	93	3	44	13	40	5.87	+1.43	1.70	0	12	14	10	6	se.	James H. Harris
Maryville	Nodaway	1,169	29	65.6	+ 0.2	86	3	39	14	30	5.35	+1.14	1.07	0	13	15	0	15	n.	J. R. Brink
Oregon	Holt	1,048	67	66.5	− 0.5	89	26	42	14	32	8.50	+4.76	5.26	0	7	11	10	9	ne.	Tom Curry
St. Joseph	Buchanan	967	50	68.6	− 0.7	92	3	45	14	29	5.02	+1.56	1.42	0	12	12	10	8	se.	U. S. Weather Bureau
Tarkio	Atchison	916	30	67.6	+ 1.0	95	3†	38	14	34	3.70	+0.20	0.93	0	10	14	6	10	se.	Albert Volker
Trenton	Grundy	822	28	66.8	− 0.6	85	4	41	14	27	4.65	+0.39	0.78	0	13	14	10	6	e.	W. H. Estes
Section means and	extremes	.....	..	67.5	− 0.2	96	4	34	14	49	5.76	+1.64	5.26	0	11	13	9	8	se.	
State means and	extremes	.....	..	68.7	− 0.3	98	3†	33	14	49	4.59	+0.86	5.26	0	11	12	9	9	se.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for September, 1923.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	.54	.04				.72	.65				.68					.14	.18	.47	.03	.25	T.					1.15		.08		.46		5.39
Brunswick‖	Grand	.40					.33	.65				.26	.04				.28	.60	.97	.12	.14	.05					.79		.23		.65		5.51
Clifton Hill	Chariton	.38				.06	.11	.29				.62					.36	.05	.26	.25	.01						.12	.10			.78		3.39
Columbia***	Missouri	.27			.04	.06	1.03				T.	.17		T.			.14	.06	.25	.31	T.					.22	T.	T.		T.	.48		3.03
Downing	Mississippi	1.50				1.35	1.50	.30									.01	.68	.44	.22	.36	.02						1.80		.75	2.90		11.83
Fayette|||	Missouri	.32	.17			.13	.60				.18						.24	.04		.31	T.						1.75	.12		.32			4.18
Fulton	do	.42	03				.39	.38				.21					.20	.03	.22	.40	.01										.55		2.84
Gorin	Mississippi	.03					1.21	.03				.02		.01			.05	.05	.23	.34	.55						.03	3.68	.05	.39	1.05		7.72
Hannibal***	do	.04			T.	.12	.19	T.			T.	.13		.01			T.	.04	.96	.29	.03					T.	.02	1.05		.25	.56		3.69
Hermann‖	Missouri	.21	.13				.08	.61				.01							.29	.02	.44	.02						.02	.06		.08		1.97
Jefferson City‖	do	.35	.45				.38	.35				.32	.25				.22	.15	.10		.65												3.22
Kirksville	Mississippi	.26					.68				.27	.52		.15			.13	.62	.11	.28	.06							.88	.20		.26		4 42
Louisiana	do	.03				.01	.70	.31				.26		T.					.40	.15	T.							.74			1.95		4.55
Macon‖	Chariton	.35	.20				.10	.67			.10	.30						.20	.13	.12	.39	.05					T.	.05	.08	.61	.59		3.94
Mexico‖	Mississippi	.15	.05					1.02				.10						.04	.22		.27	.02				T.			.01				1.88
Milan‖	Grand		.20				.60	.40				.42		T.				.50	.70					.45					.04		.20		3.51
Pacific‖	Meramec	.28	.04	.16		.20	.38	1.40	T.			.07							.10		.46	.05						T.	.02				3.16
Palmyra‖	Mississippi																																
St. Catharine	Grand	.42				1.55	.40	.28			.05	.33		T.			.50	1.00	.08	.12	.04	T.				T.	T.	.10		.21	.23		5.31
St. Charles	Missouri	.13	.11			.08	06	.31				T.	T.					T.	.67	1.12							T.	T.					2.48
St. Louis (1)***	Mississippi	.04	.01	.04	.33	.36	.96	.05				T.	.02	T.				.12	.70	.28							T.	.03			.57		3.51
St. Louis (2)	do	.48	.01	T.	.49	.22	1.12	.05				T.	.02				T.	.16	.58	.80							T.	.03			.66		4.62
Shelbina	do	.13	.30				.65	.50											.20	.20	.08							.25	.04		.57		2.92
Steffenville	do	.05	.24		T.	.62	.75	.12			T.	.15		.05			.05	.07	.30								T.	2.10		.25	1.45		6.20
Union‖	Meramec		.05	.57			.36	.63	.04			.06	.02					.02	.48	.07	1.02							.05					3.37
Unionville	Chariton	.15					.15	.20			.10	.10		.10			.20	.90	.60	.30	.20				.25			.10		.26	.70		4.31
Valley Park|||	Meramec			.22	T.	T.	.95	.42	T.			T							.30		.62	T.	T.					.10	.30		T.		2.91
Warrenton‖	Mississippi	.13	.06		.24		.22	.46				.02						.01	.37		.17							.57	.06		.16		2.47
Keokuk, Ia.***	do	.49			.71	.06	.16							T.			T.	.01	.52	.20	.15						.23	1.21		.04	.86		4.64
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi	.34	.85	.19		.14	.96												.08	.36	.20												3.12
Caruthersville	do	1.05	1.61	.48	.40	.40	T.	T.	.30									T.	.35	04	2.00	T.									.17		6.80
Doniphan	Black	T.	.55	.03	.03	.18		.07									T.	.42	.25	.27	.65										.07		2.52
Jackson	Mississippi	1.63	.12	.21		.02	.15												.12	1.24											.29		3.78
Leeper‖	Black	.48	.48			.20		.60										.65		.70											.40		3.51
Marble Hill	Mississippi	1.62		.15		.85	.12	.10											.62	.40	.15										.35		4.36
New Madrid‖	do	.03	1.33	1.00	.01	.24	1.35	.05											.05	.56	1.03	.01											5.66
Parma	St. Francis	.57	.60	1.00	.20	.55	.03	.03											.78		.75										.97		5.48
Patton (near)	Mississippi																		.65	.58													1.23
Poplar Bluff	Black	.49	1.77	.11	.07	.14	.02	.02										.10	.35	.07	.33										1.49		4.96
Vanduser	Mississippi	.17	.81	.13	.08	.15	.69												.21	.14											.34		2.72
Cairo, Ill.***	do	.88	.54	T.	.01	.19	.11	T.										T.	.38	.76	.13	T.									.48		3.48
Ozark Plateau.																																	
Annapolis‖	St. Francis		.60		.18				.30									.35	.40	.36											.20		2.39
Arcadia‖	do	1.55	.83	.07	T.	.01	.28	.03	T.			.11					.01	T.	.36	T.	.16	T.	T.										3.41
Birchtree	Black	.06	.13	.20		65													.80	.70													2.54
Bolivar	Osage		1.12			.08	.84					.30				.15	.08	.20		.18				.18		.01		.67			.18		3.99
Dean	Neosho							1.56						.27	T.		.27	.33	.12	1.23	.01				.04								3.83
De Soto|||	Mississippi	.47		.04		.64		.33												.24								.05			.13		1.90
Eldon	Missouri	.36	.41		.02	.48	.49	.19				.19					.36		.04	.69							.05				.84		4.12
Farmington	St. Francis	2.36	.02	1.00	T.	.40	T.	.08				T.	T.				T.	.05	.22	.05		T.									.80		4.98
Fredericktown|||	do	.46	.43	1.33	.09				.50							.06		.41	.35	.52	.06								.10				4.31
Galena|||	White						.02	.55						.05			.05	.08	.45	.07	.50						.15						1.92
Gano	Meramec	1.27	T.			.23		.44					.10				.05	.05	04	1.18	T.	.05					.10				.17		3.68
Goodland	Black	1.75	.05	.30		.08		.20											.68												.57		3.63
Greenville	St. Francis	.71	.96	.16	T.	.06		.24	.03								T.	.08	.23	.77	.03							.01			.34		3.62
Hollister	White							1.00										.15		.50													1.65
Houston	Gasconade																																
Jerome‖	do	.43		.62		.11	33	.36				.06	.18				.16	.06	.19		.09	.04						.28	.42				3.33
Koshkonong	Black	T.	.51	.14				.40										.80	.19	1.06	.08							.05					3.23
Lebanon‖	Osage	.29	.10	.13	.10	.02	.75	.69	T.			T.	.19				.10	.03	.22		.30	.04						.33	.02				3.31
Lockwood	do		1.52					.95					T					.25	T.	.78							4.45	.12			.90		8.97
Mineral Point|||	Meramec																																
Mountain Grove‖	White	.07	.21	.02	T.	.08	.02	.32	.28				T.	T.			T.	T.	.19	.01	.18	.03						.26					1.67
Neosho	Neosho							2.35					.03	.03	.03		.24	.38	.23	.86							.21			T.			4.36
Rolla	Meramec	02	.85		.03	.32	.44	.12			1.01	30				T.	.17	.23		.14	.07						.04				.44		4.18
Seligman	Neosho	.21			.23	.53		1.35						1.44	.03		.15	.73	.10	.91													5.68
Seymour	White	.32	T.			.45		1.00					T.				T.	.33	T.	.73		.03					.83	T.					3.69
Springfield***	do	.22	.42			T.	.29	.55				T.	.09				.04	.38	.10	.11	T.						1.59	.02		.01			3.82
Steelville‖	Meramec																																
Tuscumbia‖	Osage	.34		.32		.15	2.75	.25	.08				.17				.10	.17	.07		.17	T.					.70	T.					5.27
Willow Springs|||	Black	28	.96	T.		.21		.22					.01					.01	.36	.01	.78	.01						.01					2.86
Southwest Plain.																																	
Amoret	Osage	.56						.25					.80				1.37	.83	.56	.97						T	.45	1.67			T.		7.46
Appleton City	do	.01	.02			1.12		.60					.43				.71	.16	.09	.60						.10	T.	38			.23		4.45
Clinton	do	.05					.70						.12					.80	.13	.60						.10		.48		.02	1.00		4.00
Harrisonville‖	do	1.15					.05	.24									63	1.51	.42		.60					.02		.35	.64		.73		6.34
Joplin*	Neosho		.21			.01	.61	.69				T.		T.	.01	.08	.18	.20	.12	.55						.07	.31	.35					3.39
Lamar‖	do	.02		1.60			.47	.90					.08				.76	.15	.40		1.28						1.20	.87	.60		.08		8.41
Lamonte	Missouri	.66				.32		.40			T.						.70		.40	.71	T.					.06	05	.47		.38	.31		4.46
Marshall	do	.96	T.			.30		.21			T.	.19				.66	.19			.26						2.00	.06	.26		T.	.52		5.61
Nevada	Osage	.16	60					.15					.42				.57	.30	.28	.88							.57	.87			22		5 02
Osceola|||	do						.57	.47					.38				.54	.14	.08		1.23						.05	.25	.05		.23		3.99
Warrensburg	Missouri	.72				1.45	.70				T.	.02					1.00	.48	.32	.40								.79		T.	2.00		7.88
Warsaw	Osage	.04				.55		.40				T.	.30				.42	.12	.02	1.75						.05	.80	.28			.70		5.43
Waverly‖	Missouri	.87					T.	.08				.07	T.				.45	.61	1.35	.04	.09	T.					.62	.11	.20		1.44		5 93
Northwest Plateau.																																	
Albany|||	Grand	.25						.10									.78	.33		.92							.99				2.00		5.37
Avalon	do	.40				.50	.10		.10									2.00	1.75					.20						.50	.75		6.30
Bethany	do						.35				.15			T.			.54	.37	.58	1.10	.02							.08		.39	.10		3.68
Chillicothe|||	do	.32					.22	.32			T.	.61			T		.12	.80	.76	T.	18	.02				.05	.34	.04	T.		.84		4.62
Conception	Missouri	.60					.51				T.	.10		.03			.50	.83		.74	.73							.14		1.96	.30		6.44
Edgerton	do	1.10					16	.18			.06	.03	.04				.95	.46		.21	T.						.31	.60	.03	T	.07		4.20
Grant City	Grand	.22									T.	T.	T.				.74	.98		.77	.40					.09			.22	1.66	.13		5.21
Kansas City***	Missouri	2.60				.49	.08				T.	.03				T.	1.12	.33	.50	35	T.					.05	1.16	.38		T	2.52		9.61
Kidder‖	Grand	2.20					.03	.31				.05						.46	.22		.56	.03					1.95	.03	.05		1.40		7.29
Lexington	Missouri	1.40	.02				.12	.70				.03					.35	1.45	.82	.06	.13	.03					.02	.12	.20		.54		5.99
Liberty	do	1.70				.03	.08	.06									1.29	.91	.61	.24						T.	.14	.09		.19	.53		5.87
Maryville	do	.78						.59				.10			.05		.29	.92	.50		1.07	.02						.18	.05	.35	.45		5.35
Oregon	do	.46					.11				T.	T.						1.11	.05		1.01				T.				.50		5.26		8.50
St. Joseph***	do	.37					.50	T.			.03						.68	1.33	.11	1.06	.01					T.	.28	.04		.53	.08		5.02
Tarkio	do						.78				.05						.04	.93		.36						.12		.12	.64	.37	.29		3.70
Trenton	Grand					T.	.75			.04	.30			T.			.46	.74	04	.35	.75					.30	.02	.10		.78	.02		4.65

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch.
*** Regular U. S. Weather Bureau station; precipitation is for 24 hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for September, 1923.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	88	88	91	93	86	86	81	90	86	85	82	80	59	73	78	63	75	78	74	63	78	81	82	80	84	83	79	88	88	78	..	80.7
	Minimum	67	67	63	64	67	66	62	52	54	57	59	55	51	44	38	46	52	61	60	60	51	46	42	55	56	62	67	66	65	66	..	57.4
Columbia	Maximum	84	80	86	86	78	80	77	85	80	82	86	76	63	67	73	65	75	80	72	67	70	75	76	78	85	78	76	88	87	73	..	77.6
	Minimum	66	69	65	66	67	62	55	53	54	58	60	54	49	45	48	50	59	65	62	58	52	44	52	56	61	66	68	68	65	65	..	58.7
Fayette	Maximum	83	79	83	84	76	79	74	75	74	79	81	75	62	65	71	57	69	73	68	65	69	72	73	72	84	72	73	84	80	69	..	74.0
	Minimum	65	64	60	62	66	60	58	48	55	54	60	53	48	42	44	48	54	62	58	54	48	42	50	52	58	62	62	62	60	62	..	55.8
Hannibal	Maximum	82	82	86	86	79	80	78	86	78	79	80	74	57	64	70	65	76	72	71	71	70	74	71	78	83	80	77	87	86	70	..	76.4
	Minimum	69	68	66	64	67	65	58	54	58	56	58	53	46	43	44	52	60	62	60	57	52	48	55	52	63	68	65	67	68	60	..	58.5
Jefferson City §§	Maximum	87	77	88	86	77	84	84	87	84	85	90	85	70	70	76	74	75	85	75	65	68	76	79	80	85	79	81	90	90	75	..	80.2
	Minimum	68	66	64	66	67	67	67	53	55	58	60	63	51	49	47	50	50	52	65	62	55	45	45	62	53	60	62	64	63	63	..	58.4
Kirksville	Maximum	84	83	85	88	82	80	82	84	77	77	80	75	62	65	73	63	70	74	66	68	73	77	80	78	81	83	73	80	82	71	..	76.5
	Minimum	62	65	61	62	64	64	58	52	52	52	62	49	45	36	41	49	54	62	56	57	48	44	50	50	50	62	64	66	62	62	..	55.4
Louisiana	Maximum	90	89	87	85	80	80	78	82	85	77	80	84	75	65	65	64	66	75	75	70	68	70	74	80	80	84	80	88	85	85	..	78.2
	Minimum	70	68	62	62	63	68	62	52	52	55	60	55	52	36	36	34	38	50	60	62	53	43	46	48	60	66	66	62	62	63	..	55.5
Macon §§	Maximum	87	82	88	88	84	81	76	84	78	82	76	74	56	71	72	59	73	72	67	62	71	76	77	78	75	80	74	77	70	74	..	75.5
	Minimum	65	65	62	63	65	64	59	52	52	52	57	49	49	36	40	46	51	58	57	58	49	46	49	56	55	61	64	65	63	62	..	55.7
Mexico §§	Maximum	85	79	87	88	77	80	78	86	80	83	87	77	57	69	76	65	77	80	71	64	68	73	77	81	86	80	80	88	90	71	..	78.0
	Minimum	65	65	64	62	63	65	60	53	53	54	55	52	50	48	43	43	50	58	58	60	52	45	46	52	54	58	63	63	63	63	..	56.0
St. Catharine	Maximum	82	81	85	86	82	77	77	83	76	77	78	75	65	64	72	67	70	71	70	69	70	75	75	75	80	80	77	82	80	74	..	75.8
	Minimum	67	67	62	65	66	65	58	53	54	57	63	51	48	38	43	51	52	63	57	57	47	47	52	56	60	65	66	66	65	64	..	57.5
St. Louis(1)	Maximum	75	79	81	82	80	78	76	82	78	79	85	75	64	65	69	69	73	84	73	70	61	63	77	81	82	81	85	88	86	76	..	76.6
	Minimum	70	68	70	69	70	65	63	59	60	57	63	58	50	47	50	51	59	67	65	59	56	56	55	62	64	63	66	69	69	65	..	61.5
Unionville	Maximum	83	80	87	88	86	80	77	80	87	80	76	75	70	66	73	63	70	73	68	67	74	76	78	78	88	86	76	84	78	75	..	77.4
	Minimum	65	62	60	60	62	64	57	52	50	50	60	45	44	33	44	50	50	60	56	55	45	45	50	53	56	62	64	64	64	63	..	54.8
Warrenton §§	Maximum	83	78	87	88	82	82	74	86	..	88	89	71	71	69	77	70	77	86	77	69	62	68	79	84	90	76	84	93	89	72	..	[a]79.3
	Minimum	68	67	66	64	66	66	62	54	56	..	54	54	53	43	43	44	52	64	63	64	54	49	50	55	58	61	64	66	66	65	..	[a]58.3
Southeast Lowlands.																																	
Caruthersville	Maximum	95	85	95	78	82	85	80	89	93	90	93	87	82	76	83	86	88	87	85	85	72	78	82	90	86	93	96	98	98	95	..	87.1
	Minimum	71	60	56	70	69	70	69	61	60	60	62	62	58	56	55	56	72	70	70	69	62	58	62	58	60	60	64	68	67	65	..	63.3
Doniphan	Maximum	87	87	85	80	77	85	79	84	87	83	88	78	77	72	73	77	81	85	78	77	69	67	77	80	81	82	88	89	89	87	..	81.0
	Minimum	70	68	68	67	68	68	64	52	54	62	56	64	52	53	52	54	61	68	69	65	60	58	48	54	54	56	60	59	60	60	..	60.1
Jackson	Maximum	81	78	83	80	80	83	78	84	82	83	86	77	78	67	74	76	80	82	79	81	70	71	76	85	83	85	90	92	90	82	..	80.5
	Minimum	69	67	68	61	65	69	62	52	55	58	54	61	50	49	48	45	60	68	66	66	59	57	51	57	53	54	60	60	60	62	..	58.9
Poplar Bluff	Maximum	86	77	86	79	77	83	78	84	87	85	86	80	80	70	76	79	81	85	78	78	71	70	78	83	82	85	88	91	92	89	..	81.5
	Minimum	71	68	68	67	69	67	64	55	58	60	58	64	53	53	52	52	60	69	71	66	50	57	52	56	56	56	62	62	63	65	..	60.8
Cairo, Ill.	Maximum	83	76	82	76	78	78	77	81	80	79	82	73	77	67	69	73	78	80	79	79	64	72	76	81	79	84	87	90	87	83	..	78.3
	Minimum	70	69	71	70	69	69	64	60	62	62	60	63	55	52	50	50	65	69	67	63	59	59	60	63	63	62	63	66	67	66	..	62.9
Ozark Plateau.																																	
Arcadia §§	Maximum	76	81	78	82	75	82	73	83	77	78	85	73	73	67	69	69	74	87	87	74	61	62	76	78	82	77	86	89	87	77	..	77.3
	Minimum	65	66	67	63	65	67	61	52	51	55	55	58	48	49	42	45	50	62	65	65	56	53	44	47	55	57	60	57	57	60	..	56.6
Birchtree	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Eldon	Maximum	95	81	90	89	78	84	80	85	84	86	90	78	75	78	77	67	76	86	76	71	74	77	80	80	75	80	84	90	91	76	..	81.1
	Minimum	60	65	63	54	64	65	66	52	54	54	53	55	48	49	44	50	53	56	53	56	53	45	46	50	55	55	53	48	63	57	..	54.6
Farmington	Maximum	75	75	83	78	75	84	74	81	80	83	83	73	71	66	68	72	73	84	75	76	62	63	75	78	80	78	86	87	90	82	..	77.0
	Minimum	65	67	67	63	67	66	60	52	57	53	57	57	50	49	44	48	55	66	66	60	54	53	44	54	56	58	61	62	60	60	..	57.7
Hollister	Maximum	84	88	93	94	87	93	80	89	90	94	96	81	75	65	66	68	76	86	80	78	81	80	82	80	88	81	92	94	92	90	..	84.1
	Minimum	68	69	60	60	66	60	64	46	48	52	60	62	56	56	56	58	55	65	60	56	58	56	54	46	54	59	60	60	58	58	..	58.0
Koshkonong	Maximum	81	82	86	77	..	85	85	89	87	85	89	77	75	66	75	81	75	85	77	75	66	64	74	78	83	69	83	89	89	86	..	[a]79.8
	Minimum	70	69	68	67	..	..	63	59	60	60	61	62	58	52	50	53	64	68	66	63	57	58	51	58	58	61	65	64	67	66	..	[b]61.4
Lebanon §§	Maximum	84	82	91	84	84	87	80	83	85	87	91	70	76	71	76	77	75	86	70	66	70	77	80	80	87	80	85	88	86	75	..	80.4
	Minimum	64	65	62	64	64	62	61	51	53	55	56	55	51	48	49	50	55	64	63	59	50	43	42	49	50	57	62	64	64	61	..	56.4
Mountain Grove §§	Maximum	77	75	87	85	77	85	76	84	87	86	90	79	74	67	72	77	71	87	78	72	62	70	74	77	83	74	83	88	89	85	..	79.0
	Minimum	66	66	64	63	65	64	61	54	57	60	62	58	55	50	51	52	56	65	67	61	53	47	50	50	52	53	61	64	65	61	..	58.4
Neosho	Maximum	92	86	94	88	87	91	88	86	89	93	92	89	75	73	78	81	77	83	80	74	74	79	81	79	81	84	88	89	83	83	..	84.0
	Minimum	68	65	64	57	67	59	62	50	55	55	61	60	57	59	53	56	64	64	65	58	52	45	51	52	58	68	65	63	62	62	..	59.2
Rolla	Maximum	84	81	87	85	78	83	78	85	85	82	88	82	75	69	74	72	74	84	80	72	62	70	76	80	85	78	85	86	87	80	..	79.6
	Minimum	67	67	67	63	68	66	61	52	57	55	61	56	55	48	48	50	60	68	64	60	53	50	48	53	59	62	65	64	65	63	..	59.2
Springfield	Maximum	81	77	85	84	78	86	75	83	83	88	88	70	69	66	70	74	71	81	73	66	69	72	75	74	82	77	83	85	81	79	..	77.5
	Minimum	68	64	64	68	66	60	60	56	62	62	66	57	59	52	54	53	64	68	66	55	55	52	52	55	60	61	67	67	66	66	..	60.8
Southwest Plain.																																	
Amoret	Maximum	86	84	90	88	84	90	82	91	84	92	90	86	76	68	76	70	77	78	80	72	75	77	78	80	81	81	84	86	80	77	..	81.4
	Minimum	62	64	61	60	64	62	57	52	63	56	60	54	56	48	46	50	61	55	55	56	48	48	48	53	60	60	60	65	65	62	..	57.0
Appleton City	Maximum	88	83	92	90	79	87	82	89	85	87	90	76	75	70	76	73	74	80	76	72	74	76	79	77	82	82	81	88	83	77	..	80.8
	Minimum	66	67	65	64	65	64	60	53	60	58	65	58	60	51	51	52	64	66	64	58	52	49	52	55	62	65	64	67	65	64	..	60.2
Clinton	Maximum	92	88	98	96	82	90	92	92	88	91	92	80	80	82	..	78	74	83	80	70	77	80	83	80	88	85	86	92	90	83	..	[a]85.2
	Minimum	66	69	66	65	65	63	62	52	58	58	67	60	67	52	..	60	60	67	63	60	52	48	54	55	62	70	70	70	67	64	..	[a]61.8
Harrisonville §§	Maximum	84	85	91	89	78	88	82	91	86	87	88	81	74	73	76	65	74	70	74	62	76	78	78	76	79	80	79	86	80	77	..	79.6
	Minimum	62	63	63	64	66	63	59	53	55	58	61	57	53	49	50	51	52	63	61	56	49	50	52	55	56	62	63	63	65	60	..	57.8
Lamar §§	Maximum	91	78	90	91	84	88	79	88	87	94	91	75	76	72	80	74	76	81	73	66	72	79	80	79	86	80	86	89	67	68	..	80.7
	Minimum	69	67	63	62	63	63	62	54	55	58	63	58	58	55	55	53	54	65	65	59	53	49	50	52	55	63	63	62	65	66	..	59.3
Lamonte	Maximum	88	85	93	94	83	88	80	90	85	90	88	82	77	76	82	64	68	80	76	69	78	83	86	82	89	85	80	92	90	75	..	82.6
	Minimum	63	65	62	65	66	62	61	50	55	56	63	56	48	48	46	51	52	61	61	56	50	46	52	55	61	69	64	66	66	61	..	57.9
Marshall	Maximum	86	86	89	91	82	85	..	82	87	84	86	81	71	72	66	75	77	70	73	78	80	80	78	86	80	74	78	88	88	73	..	[a]80.1
	Minimum	60	66	60	65	67	62	..	60	65	65	63	55	50	44	52	59	65	59	59	50	44	60	49	58	66	68	66	65	63	64	..	[a]59.6
Nevada	Maximum	83	81	88	88	83	86	80	89	81	90	92	78	77	76	77	73	77	79	76	74	72	75	77	78	83	81	85	85	85	75	..	80.9
	Minimum	66	67	64	60	67	62	61	57	56	60	66	56	57	50	52	52	65	65	63	61	52	51	54	56	63	62	62	67	68	64	..	60.2
Warrensburg	Maximum	90	89	92	93	88	81	83	89	84	87	87	81	77	73	78	75	75	78	76	76	75	80	82	80	87	87	81	90	91	86	..	83.0
	Minimum	67	66	63	65	66	62	61	52	59	55	67	57	52	48	48	53	61	68	62	58	51	50	53	56	63	70	64	65	67	67	..	59.9
Warsaw	Maximum	90	83	92	90	83	88	82	89	86	89	91	78	76	73	79	76	76	82	78	73	75	77	81	79	86	81	84	89	86	80	..	82.4
	Minimum	68	68	61	63	66	64	62	50	50	55	65	58	55	52	48	52	63	69	63	60	55	46	50	53	60	67	64	68	63	62	..	59.3
Northwest Plateau.																																	
Chillicothe §§	Maximum	84	84	88	89	84	82	77	87	81	83	79	77	56	70	75	61	71	72	69	60	74	78	80	78	83	83	75	88	79	78	..	77.5
	Minimum	53	62	59	63	54	64	59	52	53	56	57	51	48	38	44	51	52	58	57	58	47	45	49	54	56	62	64	65	65	62	..	55.3
Grant City	Maximum	80	86	93	88	87	88	80	88	82	88	76	80	71	72	80	71	73	75	68	69	78	80	82	82	84	86	80	84	83	81	..	80.5
	Minimum	63	59	62	64	62	63	54	50	52	55	60	46	45	38	45	53	53	59	54	55	46	48	52	56	55	56	76	73	68	61	..	56.1
Kansas City	Maximum	82	85	89	85	81	87	79	88	82	83	78	78	65	70	74	65	74	70	74	66	73	77	79	76	78	79	79	86	80	78	..	77.9
	Minimum	62	67	69	67	65	61	62	61	59	60	60	58	51	49	52	52	62	63	60	58	52	55	56	58	66	65	65	70	70	60	..	60.6
Kidder §§	Maximum	85	86	91	89	85	88	78	88	82	80	76	79	57	72	76	60	73	75	71	58	78	80	81	78	83	80	78	89	76	82	..	78.5
	Minimum	62	61	63	63	64	64	56	52	52	54	57	50	48	40	41	46	52	57	57	56	47	48	49	54	55	62	65	64	65	61	..	55.5
Lexington §§	Maximum	84	87	90	87	76	86	80	88	82	80	81	80	66	71	75	58	74	70	74	71	75	78	79	75	80	80	79	87	83	77	..	78.4
	Minimum	63	65	64	64	66	61	61	55	55	56	65	55	56	47	46	46	57	57	60	59	50	48	51	55	55	67	65	61	66	54	..	57.8
Maryville	Maximum	77	82	86	85	84	82	75	82	74	71	72	75	68	66	72	65	74	68	64	60	73	74	76	72	79	79	75	82	79	76	..	74.9
	Minimum	62	60	65	64	64	62	53	52	51	56	60	47	45	39	46	53	53	58	55	55	46	50	52	56	62	65	62	65	65	65	..	56.3
Oregon	Maximum	80	82	87	88	85	82	75	85	77	80	71	75	65	67	74	69	74	70	66	66	70	73	76	74	78	89	74	82	80	73	..	76.2
	Minimum	63	60	64	65	65	62	54	53	53	56	60	51	48	42	49	53	55	59	55	54	47	50	54	56	62	66	62	67	60	60	..	56.8
St. Joseph	Maximum	81	84	92	88	87	86	78	87	80	79	75	78	61	72	76	64	76	71	68	62	76	78	79	76	80	83	79	87	82	78	..	78.1
	Minimum	64	63	66	66	66	62	60	58	55	58	60	55	48	45	49	53	61	59	58	56	50	51	55	59	65	67	67	69	66	64	..	59.2
Trenton	Maximum	82	80	84	85	83	81	74	82	77	78	76	73	65	63	71	60	71	72	73	68	71	72	75	75	79	83	73	81	76	75	..	75.3
	Minimum	65	64	61	64	64	62	59	55	52	59	61	51	51	41	45	52	54	62	61	59	58	54	59	55	60	63	65	67	66	64	..	58.4

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVII. COLUMBIA, MO., OCTOBER, 1923. No. 10.

GENERAL SUMMARY.

October, 1923, in Missouri, was the coldest since 1917, and the wettest since 1919. The excess moisture, however, was confined to sections south of the Missouri River as a rule. As compared with Octobers of the past five years, the present month was less pleasant from the physiological side. The sunshine, the one element that goes to make up ideal October weather, was lacking, while the dull, gray sky was most in evidence this year.

The first two weeks were more or less mild, several days being quite summer-like, with afternoon temperatures hovering around the 80° value. The latter half of the month was colder than normal, though the first killing frost and freeze did not occur until about the 20th. Some apples were frozen, but otherwise all farm crops and vegetation in general had fully matured, and no damage resulted.

Notwithstanding rather frequent rainy spells, seasonal farm work made fair progress. Winter wheat seeding was completed, save in a few localities, more especially in the southwest counties, where most of the month was gloomy. Pastures continued green and plentiful.

A slight earthquake shock was felt at Poplar Bluff at about 11 a. m. of the 28th. The month was free from damaging storms of any kind.

TEMPERATURE.

The monthly mean temperature for the State, 68 stations reporting, was 53.0°. This is 4.4° lower than the 36-year average, and the first negative departure from the normal since 1917. Temperatures were remarkably uniform, negative departures occurring at all stations with averages varying from nearly 3° in the southeastern lowlands to more than 4° in all other divisions. The first 10 or 12 days of the month were mostly mild, with some very pleasant days, the 1st, 9th, 10th, and 11th being summer-like; the latter half of the month was persistently cooler than normal. The first killing frost and freeze occurred on the 19th, 20th, and 21st, progressing from north to south; the lowest temperatures and hardest freeze, however, occurred on the 31st, which probably also was the coldest October day since 1917.

PRECIPITATION.

The average precipitation for the State, based upon the records of 107 stations, was 3.39 inches. The departure from the 56 years' average was plus 0.64 inch. The precipitation was unevenly distributed, being rather excessive in sections south of the Missouri River, and normal or below normal north of that line. Monthly amounts ranged from more than 9 inches in the extreme southwest to less than one inch in the extreme northeast. The more or less general rainy spells were the 1st, 4th, 12th-13th, 16th-18th, and 26th-30th. The greatest amount in any 24 consecutive hours was 2.76 inches, at Neosho on the 13th.

There was one flurry of snow, on the 29th; along the northern border amounts varied between 1 and 3 inches at six stations, and a trace occurred at a number of other stations in northern sections.

WIND.

The prevailing winds were from the northwest and north. The average monthly movement, 8 stations equipped with anemometers reporting, was 5,223 miles, or an hourly velocity or 7.0 miles. There were no gales or damaging winds.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine for the State, based upon the records of 6 well placed stations equipped with sunshine recorders, was 203. This is about 59 per cent of the possible, and about 7 per cent below normal, 9 per cent less than in October, 1921, and 13 per cent less than the same month in 1922.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---14th, 15th, 21st, 24th, 28th, and 29th.
Frost, killing.---More or less general on the 20th and 21st.
Hail.---At Kansas City on the 26th.
Halos, solar.---1st, 2d, 3d, 5th, 6th, 11th, 14th, 15th, 19th, and 27th.
Halos, lunar.---19th.
Sleet.---At Springfield on the 26th.
Thunderstorms.---1st, 11th, 16th, 29th, and 30th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.17	83	64	202	58	4,418	5.9	28	nw.	18
Hannibal	30.18	83	..	...	..	4,535	6.1	24	nw.	18
Kansas City	30.18	80	60	215	62	6,192	8.3	39	w.	18
St. Joseph	30.17	86	65	207	60	4,663	6.3	31	w.	18
St. Louis	30.16	76	60	206	60	7,198	9.7	38	n.	18
Springfield	30.16	84	71	169	48	5,668	7.6	28	nw.	18
Cairo, Ill	30.14	85	65	...	..	5,499	7.4	29	nw.	18
Keokuk, Iowa	30.20	79	58	218	63	3,609	4.9	24	w.	19

COMPARATIVE DATA FOR OCTOBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	53.6	−3.5	89	24	2.65	+0.21	......	....	7	....	....	....
1889	53.8	−3.3	91	27	2.50	+0.06	......	....	6	....	....	....
1890	54.8	−2.3	91	22	2.24	−0.20	.....	....	6	....	....	....
1891	55.7	−1.4	98	19	1.11	−1.33	.....	....	3	....	....	....
1892	57.5	+0.6	95	16	2.28	−0.16	2.40	0	5	16	7	8
1893	56.7	−0.4	95	16	0.99	−1.45	2.81	....	10	20	8	3
1894	57.6	+0.5	94	18	1.74	+0.70	3.52	T.	6	17	8	6
1895	54.2	−5.9	89	15	0.35	−2.09	1.20	T.	2	21	6	4
1896	54.1	−3.0	90	19	2.48	+0.04	2.68	0	5	19	6	6
1897	62.5	+5.4	99	23	0.71	−1.73	1.70	0	3	22	6	3
1898	53.5	−3.6	94	19	4.23	+1.79	4.51	1.4	8	11	7	13
1899	62.4	+5.3	100	24	2.93	+0.49	2.53	0	5	20	6	5
1900	62.4	+5.3	92	25	4.18	+1.74	4.04	0	7	17	7	7
1901	60.1	+3.0	96	24	1.64	−0.80	2.98	0	6	18	8	5
1902	59.5	+2.4	88	28	2.52	+0.08	2.69	0	5	21	5	5
1903	57.2	+0.1	90	19	2.85	+0.41	3.80	0	6	19	6	6
1904	57.6	+0.5	90	19	0.90	−1.54	2.46	0	3	20	7	4
1905	55.1	−2.0	90	20	4.64	+2.20	7.24	0.3	5	17	6	8
1906	56.3	−0.8	94	17	0.87	−1.57	1.50	0	10	15	7	9
1907	56.7	−0.4	94	18	2.90	+0.46	3.46	0	7	19	5	7
1908	56.3	−0.8	92	21	2.74	+0.30	4.90	0.8	5	18	6	7
1909	57.2	+0.1	96	20	2.77	+0.33	2.57	T.	6	19	5	7
1910	59.4	+2.3	94	15	2.71	+0.27	5.50	0	5	22	4	5
1911	56.9	−0.2	96	25	3.30	+0.86	5.12	0.2	8	11	7	13
1912	59.1	+2.0	97	21	3.83	+1.39	5.12	0.7	6	20	5	6
1913	54.7	−2.5	93	11	4.46	+1.94	2.80	3.3	9	15	6	10
1914	59.2	+2.0	88	19	4.54	+2.04	5.40	0	7	14	6	11
1915	59.8	+2.9	95	22	1.19	−1.45	1.97	0	3	23	5	3
1916	58.0	+0.7	95	20	2.17	−0.54	3.90	0	6	18	5	8
1917	49.8	−7.4	93	12	1.16	−1.49	2.00	0.2	6	16	8	7
1918	60.6	+3.5	95	28	3.37	+0.71	5.61	0	7	14	6	11
1919	58.4	+1.4	98	17	6.74	+3.92	4.91	0	11	10	7	14
1920	61.3	+4.3	93	18	2.89	+0.25	2.45	T	7	17	6	8
1921	57.9	+0.8	92	24	2.19	−0.40	2.32	0	5	21	5	5
1922	59.9	+2.4	97	18	2.00	−0.77	3.00	0	5	20	5	6
1923	53.0	−4.4	89	17	3.39	+0.64	2.76	0.1	9	15	5	11
....	.....	......	....	....	.....	....	.....	...	....	....	....	....
....	.....	......	....	....	.....	....	.....	....	....	....	....	....

Climatological Data for October, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	43	52.7	− 2.5	84	11	23	31	36	2.92	+0.19	0.65	0	9	16	0	15	nw.	O. K. Benecke
Clifton Hill	Randolph	731	24	49.1	− 8.1	73	11†	21	31	28	0.94	−1.18	0.60	0	5	14	9	8	......	Dr. A. J. Bradsher
Columbia	Boone	748	33	52.4	− 2.4	78	11	24	31	33	2.67	+0.25	1.09	0	9	13	5	13	e.	U. S. Weather Bureau
Downing	Schuyler	878	13	52.0	......	87	11	23	30	38	2.11	−0.09	0.75	1.0	8	19	2	10	w.	E. E. St. Clair
Fayette	Howard	661	43	48.8	− 7.9	76	11	19	31	36	2.16	−0.32	0.92	0	6	..	..	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	35	52.3	− 5.3	78	4	21	31	41	3.59	+0.84	1.15	0	8	13	9	9	nw.	Westminster College
Gorin	Scotland	700	36	....	......	..	..	..	..	..	1.18	−1.20	0.36	0	6	19	1	11	se.	I. S. McCollom
Hannibal	Marion	534	40	51.6	− 4.4	78	11	24	31	35	2.41	+0.77	0.82	0	9	16	2	13	nw.	U. S. Weather Bureau
Jefferson City	Cole	557	40	52.5	− 4.2	80	10†	22	31	36	3.47	+0.88	0.82	0	12	18	2	11	n.	Miss Emma Swift
Kirksville	Adair	969	40	50.6	− 4.1	79	10	22	31	36	2.25	−0.48	0.70	T.	6	14	4	13	nw.	Prof. J. S. Stokes
Louisiana	Pike	469	42	52.6	− 3.7	80	1	22	31	48	3.71	+1.08	1.10	0	9	20	1	10	n.	J. T. Farrell
Macon	Macon	875	30	50.2	− 6.2	79	10	20	31	37	1.57	−1.16	0.47	0	8	19	8	4	se.	W. C. Brown
Mexico	Audrain	800	45	50.7	− 5.7	80	10	22	31	43	3.70	+1.32	1 01	T.	11	19	0	12	e.	Mrs. Abbie Snoddy
Palmyra	Marion	652	24	....	......	..	..	..		..	....	......	....	..	..	..	..	..	......	W. B. Markell
St. Catharine	Linn	800	13	51.4	− 4.5	76	9†	23	31	33	2.23	+0.27	0.58	0	7	16	4	11	nw.	L. D. Baker
St. Charles	St. Charles	456	45	54.2	− 3.9	82	12	24	31	34	2.69	+0.02	1.22	0	5	10	10	11	nw.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	54.9	− 3.5	79	11	29	31	24	3.74	+1.33	1.66	0	7	13	8	10	nw.	U. S. Weather Bureau
St. Louis (2)	....do	578	9	54.3	− 4.6	79	11	27	31	25	4.00	+0.21	1.24	0	7	14	6	11	nw.	St. Louis University
Shelbina	Shelby	779	30	....	......	..	..	..	..	..	1.80	−0.92	0.78	0	6	..	..	..	......	W. M. Nolin
Steffenville	Lewis	650	30	55.7	− 2.0	80	10†	26	21†	34	1.23	−0.89	0.58	0	5	14	6	11	nw.	Frank Hall
Unionville	Putnam	1,062	30	50.9	− 4.5	78	10	20	30	33	2.75	+0.29	1.00	1.0	6	15	7	9	n.	Geo. W. Davis
Warrenton	Warren	816	41	53.9	− 1.7	84	4	22	31	34	3.07	+0.21	0.86	0	8	17	4	10	nw.	Prof. A. W. Ebeling
Keokuk, Iowa.	Lee, Ia.	574	50	51.2	− 4.2	76	11	25	31	29	0.82	−1.67	0.29	T.	9	15	5	11	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	52.1	− 4.4	87	11	19	31	48	2.50	−0.01	1.66	0.1	8	16	5	10	nw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	32	61.6	− 0.1	89	1†	31	31	38	2.53	−0.43	1.05	0	7	19	4	8	e.	H. E. Averill
Doniphan	Ripley	344	19	55.0	− 3.4	81	1†	22	31	38	3.44	+0.39	1.40	0	5	19	4	8	ne.	W.W. Martin
Jackson	Cape Girardeau	428	33	55.0	− 3.0	84	11	22	31	46	4.07	+0.85	1.83	0	6	16	3	12	n.	John G. Putz
Marble Hill	Bollinger	470	29	55.6	− 2.4	87	12	21	31	47	4.98	+2.33	1.75	0	8	17	5	9	n.	R.A, DeWitt
Parma	New Madrid	281	2	....	......	..	..	..	..	..	3.44	......	1.37	0	8	..	..	..	......	J.E. Pearce
Patton (near)	Bollinger	500	13	....	......	..	..	.	..	..	4.26	+1.09	1.60	0	5	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	329	19	56.8	− 3.5	83	1†	25	31	35	3.84	+0.64	1.35	0	11	17	5	9	ne.	Rev.J. A. Gallaher
Vanduser	Scott	304	2	....	......	..	..	..	..	..	3.89	+1.29	1.34	0	6	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	51	57.2	− 3.2	81	13	29	31	29	2.43	−0.20	1.70	0	7	14	5	12	n.	U. S. Weather Bureau
Section means and	extremes	....	..	56.9	− 2.6	89	1†	21	31	47	3.65	+0.74	1.83	0	7	17	4	10	n.	
Ozark Plateau.																				
Arcadia	Iron	926	45	52 2	− 3.9	80	11	21	31	44	4.47	+1.40	1.66	0	7	16	3	12	e.	Arcadia College
Birchtree	Shannon	1,000	29	....	......	..	..	..	..	..	2.73	+0.15	1.40	0	6	18	3	10	n.	V. H. Kirkendall
Bolivar	Polk	1,071	36	51.0	− 7.5	80	10	24	30	30	4.35	+1.04	1.98	0	12	17	6	8	ne.	Southwest Baptist College
Dean ††	McDonald	1,000	24	....	......	..	..	..	..	..	9.54	+6.05	2 56	0	16	12	5	14	e.	H. E. Dean
Eldon	Miller	934	24	52.8	− 4.9	85	11	26	23	38	3.44	+0.41	1.35	0	7	14	3	14	n.	E. H. Shepherd
Farmington	St. Francois	918	26	53.0	− 3.4	79	12	24	31	38	4.17	+1.28	1.38	0	9	15	7	9	ne.	Robert Forsyth
Gano ††	Dent	1,250	21	51.4	− 6.6	78	10†	20	31	40	3.59	−0.29	1.27	0	9	14	5	12	nw.	A. C. Leach
Goodland	Iron	1,000	30	53.0	− 2.8	84	2	19	31	45	4.99	+1.77	1.63	0	7	17	6	8	s.	F. M Adams
Greenville.	Wayne	381	1	54.2	......	83	13	20	31	45	4.67	......	2.08	0	9	19	2	10	n.	J. J. Amen.
Hollister	Taney	735	20	56.2	− 4.2	86	1	20	31	50	3.15	+0.32	1.30	0	3	10	9	12	sw.	Mrs. W. P. Chapmann
Houston	Texas	1,280	31	....	......	..	..	..	..	..	....	......	....	0	..	..	..	..		Walter T. Beard
Koshkonong	Oregon	958	22	56.4^{a}	− 3.6	79	13	26	31	32	3.92	+1.01	1.08	0	9	13^{a}	3^{a}	14^{a}	ne.	R. M. Hitt
Lebanon	Laclede	1,265	36	49 6^{b}	− 8.4	83	9	20	31	41	4.40	+1.14	1.35	0	13	11^{b}	3^{h}	9^{h}	ne	Leonard E. Dickerson
Lockwood	Dade	1,078	27	54.6	− 4.0	77	11	25	31	31	6.42	+2.97	2.15	0	11	11	2	18	ne.	C. S. Crow
Mountain Grove	Wright	1,463	26	53.2	− 4.4	78	12	22	31	43	2.58	−0.47	0.52	0	14	9	10	12	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	40	54.9	− 4.3	80	1†	21	31	40	7.77	+4.38	2.76	0	13	11	3	17	n.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	39	53.6	− 2.3	79	11	22	31	36	3.98	+1.03	0.83	0	11	16	6	9	n.	Prof. Elmo G. Harris
Seligman	Barry	1,542	19	....	.. . .	..	..	..	..	..	....	......	....	..	..	..	..	..	......	Floyd E. Fawver
Seymour	Webster	1,612	17	52.5	− 5.0	76	1†	17	31	42	3.69	+0.68	0.81	0	13	12	8	11	se.	Ira H. Hailey
Springfield	Greene	1,350	45	53 8	− 3.5	74	9	27	31	24	4.79	+1.99	1.79	0	17	11	7	13	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	53.3	− 4.6	86	1	17	31	50	4.65	+1.52	2.76	0	10	14	5	12	n.	
Southwest Plain.																				
Amoret	Bates	831	17	52.2	− 4.9	78	9	22	31	34	6.95	+4.43	1.70	0	12	12	4	15	nw.	Darby Fruit Farm
Appleton City	St. Clair	853	31	54.2	− 4.9	78	9†	24	31	30	3.77	+1.43	0.77	0	13	12^{a}	7^{a}	11^{a}	nw.	W. G. Bigelow
Clinton	Henry	765	36	56.0	− 2.6	84	9	25	31	25	3.74	+0.93	1.00	0	12	14	4	13	nw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	53.0	− 3.0	77	10	22	31	32	5.33	+2.74	1.32	0	12	9	1	21	n.	John H. Patterson
Lamar	Barton	980	42	52.5	− 6.4	82	9†	24	30	34	6.04	+2.91	1.26	0	12	12	4	15	ne.	Jesse A. Mann
Lamonte	Pettis	867	36	53.8	− 4.2	83	10†	21	31	40	2.93	+0.60	1.15	0	10	14	7	10	e.	J. E. Wheeler
Marshall	Saline	779	34	51.6	− 5.0	79	10	20	31	39	2.21	−0.37	0.77	0	7	16	5	10	ne.	Dr. W. H. Black
Nevada	Vernon	862	31	54.9	− 2.4	77	9†	22	31	32	4.28	+1.20	1.11	0	5	11	4	16	s.	George A. Kaupp
Warrensburg	Johnson	878	43	54.6	− 3.5	80	10†	21	31	36	3.82	+1.27	1.16	0	12	10	9	12	e.	E. A. Markey.
Warsaw	Benton	687	28	53 6	− 5.5	80	11	20	31	37	3 60	+0.29	1.35	0	12	10	12	9	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	53.6	− 4.2	84	9	20	31	40	4.27	+1.54	1.70	0	11	12	6	13	nw.	
Northwest Plateau.																				
Avalon	Livingston	730	34	53.4	− 5.1	78	9†	25	30	31	3.20	+0.25	1.30	0	6	14	8	9	nw.	F. G. Ashbaugh
Bethany	Harrison	916	32	51.6	− 3.1	80	3†	22	30†	41	2 27	+0.06	0 80	0.5	6	16	5	10	ne.	Owen Ross
Chillicothe	Livingston	779	17	50.5	− 7.7	81	10	22	31	38	2.34	−1.11	0.71	0	8	15	4	12	nw.	Wm. J. Olenhouse
Conception	Nodaway	980	39	51.5	− 4.0	78	9†	20	30	33	2.15	−0 30	0.78	T.	4	15	6	10	se.	Fr. Adelhelm Hess
Edgerton	Platte	856	11	51.8^{c}	......	77	1†	21	31	39	3.18	+0.93	0.95	0	10	17^{a}	1^{a}	12^{a}	e.	Fred L. Stiff
Grant City	Worth	1,134	31	51.9	− 3.5	78	3	19	30	36	2.02	−0.70	0.63	3.0	6	19^{a}	4^{a}	7^{a}	sw.	B. F. Locke
Kansas City	Jackson	963	50	53.6	− 2.2	78	10	28	31	24	4.14	+1.93	1.78	T.	10	12	9	10	e.	U. S. Weather Bureau
Kidder	Caldwell	1,020	36	51.6	− 4.8	81	9†	21	31	36	2.89	+0.27	0.68	0	10	16	4	11	se.	Linn Terry
Lexington	Lafayette	688	41	53.8	− 3.7	78	10†	24	31	32	3.19	+0.62	0.83	0	9	17	3	11	s.	Edwin G. Loomis
Liberty	Clay	859	33	52.8	− 4.7	78	8	20	31	38	3.64	+1.19	0.82	0	10	14	7	10	ne.	James H. Harris
Maryville	Nodaway	1,169	29	50.9	− 2.4	74	9†	20	30	30	2.00	−0.67	0 74	1.0	6	23	2	6	n.	J. R. Brink
Oregon	Holt	1,048	67	50.9	− 4.0	74	10	22	31	26	1.96	−0.60	0.80	T.	5	15	5	11	ne.	Tom Curry
St. Joseph	Buchanan	967	50	52.4	− 4.5	77	10	26	31	30	2.69	+0.12	0.78	T.	8	14	6	11	se.	U. S. Weather Bureau
Tarkio	Atchison	916	30	50.6	− 4.9	77	9†	19	31	32	1.64	−0.93	0.71	1.5	4	15	7	9	nw.	Albert Volker
Trenton	Grundy	822	28	51.0	− 5.3	73	10	24	31	30	2.59	+0.03	0.71	T.	8	19	1	11	n.	W. H. Estes
Section means and	extremes	.....	..	51.9	− 4.3	81	9†	19	30†	41	2.66	+0.07	1.78	0 4	7	16	5	10	ne.	
State means and	extremes	.....	..	53.0	− 4.4	89	1†	17	31	50	3.39	+0.64	2.76	0.1	9	15	5	11	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for October, 1923.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	.15	....	....	....	....	....	....	....	....	....	....	....	.40	.65	.03	.05	.10	.38	....	....	....	....	....	....	....	T.	.15	....	.06	.82	....	2.79
Brunswick‖	Grand	.65	....	....	....	....	....	....	....	....	....	....	.15	.65	.20	.08	.45	.12	.10	....	....	....	....	....	....	....	....	....	....	....	.52	....	2.92
Clifton Hill	Chariton	....	....	....	....	....	....	....	....	....	....	....	.09	.60	....	.09	.08	....	.08	....	....	....	....	....	....	....	....	....	....	....	....	....	0.94
Columbia***	Missouri	....	....	....	....	....	....	....	....	....	....	....	.09	1.03	.01	.03	.10	....	.19	....	....	....	....	....	....	....	.22	....	....	.96	.04	....	2.67
Downing	Mississippi	.02	....	....	....	....	....	....	....	....	....	....	.75	.27	....	.05	.24	.20	....	....	....	....	....	....	....	....	.08	....	....	....	.50	....	2.11
Fayette‖‖	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Fulton	do	....	....	....	....	....	....	....	....	....	....	....	....	1.15	.17	....	.10	.26	.39	....	....	....	....	....	....	....	.27	....	....	.16	1.09	....	3.59
Gorin	Mississippi	....	....	....	....	....	....	....	....	....	....	....	24	.17	....	....	.17	.12	.12	....	....	....	....	....	....	....	....	....	....	.36	....	....	1.18
Hannibal***	do	....	....	....	....	....	....	....	....	....	....	....	.04	.78	....	.02	.06	.30	.34	....	....	....	....	....	....	....	.22	....	....	.60	.05	....	2.41
Hermann‖	Missouri	.35	....	....	....	....	....	....	....	....	....	....	....	.17	.85	.03	.04	.65	.07	.24	....	....	....	....	....	....	....	.03	....	.08	.95	....	3.46
Jefferson City‖	do	.47	....	....	....	....	....	....	....	....	....	....	....	.45	.65	....	.05	.23	.24	.05	.10	.03	....	....	....	....	....	.20	....	.18	.82	....	3.47
Kirksville	Mississippi	....	....	....	....	....	....	....	....	....	....	....	.70	.35	....	.13	.36	.15	....	....	....	....	....	....	....	....	....	....	....	....	.56	....	2.25
Louisiana	do	....	....	....	....	....	....	....	....	....	....	....	....	.65	.40	....	.04	1.10	.40	....	....	....	....	....	....	....	.07	.08	....	.02	.95	....	3.71
Macon ‖	Chariton	....	....	....	....	....	....	....	....	....	....	....	.03	.40	.12	.06	.14	.15	....	....	....	....	....	....	....	....	....	.20	....	.47	....	....	1.57
Mexico ‖	Mississippi	1.00	....	....	....	....	....	....	....	....	....	....	....	.30	.72	.01	.04	.19	.18	....	....	....	....	....	....	....	.02	.20	....	.03	1.01	....	3.70
Milan ‖	Grand	....	....	....	....	....	....	....	....	....	....	....	.25	.75	....	.12	.53	.10	....	....	....	....	....	....	....	....	.15	....	....	.20	....	....	2.10
Pacific‖	Meramec	.50	....	....	....	....	....	....	....	....	....	....	....	....	.46	.08	.01	.46	.48	.42	T.	....	....	....	....	....	....	....	.03	.25	.52	....	3.21
Palmyra‖	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
St. Catharine	Grand	....	....	....	....	....	....	....	....	....	....	....	.58	.30	T.	.24	.47	.15	....	....	....	....	....	....	....	....	.10	....	....	T.	.39	....	2.23
St. Charles	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	.20	.60	T.	T.	.41	1.22	....	....	....	....	....	....	....	....	T.	....	.26	T.	....	2.69
St. Louis (1)***	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	.01	.23	....	.91	.43	1.32	....	....	....	....	....	....	....	T.	T.	T.	.52	.32	....	3.74
St. Louis (2)	do	....	....	....	....	....	....	....	....	....	....	....	....	.02	.20	....	1.17	.40	1.24	....	....	....	....	....	....	....	T.	T.	....	.66	.31	....	4.00
Shelbina	do	....	....	....	....	....	....	....	....	....	....	....	....	.78	....	....	.15	.04	.18	....	....	....	....	....	....	....	.05	....	....	.60	....	....	1.80
Steffenville	do	....	....	....	....	....	....	....	....	....	....	T.	....	.58	....	.10	.15	....	.20	....	....	....	....	....	....	....	....	....	....	....	.20	....	1.23
Union‖	Meramec	.29	....	....	....	....	....	....	....	....	....	....	....	....	.60	.22	....	.55	.85	.62	.04	.05	....	....	....	....	....	.02	.03	.33	.62	....	4.22
Unionville	Chariton	....	....	....	....	....	....	....	....	....	....	....	.70	.25	....	.35	.65	.20	....	....	....	....	....	....	....	....	T.	....	....	....	.60	....	2.75
Valley Park‖	Meramec	.29	....	....	....	....	....	....	....	....	....	....	....	....	.21	.17	....	.61	1.41	.39	....	T.	....	....	....	....	....	T.	.01	.27	.60	T.	3.96
Warrenton	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	.60	.36	.01	.03	.61	.34	....	....	....	....	....	....	....	T.	....	....	.26	.86	....	3.07
Keokuk, Ia.***	do	T.	....	....	....	....	....	....	....	....	....	....	.13	.21	....	.04	.05	.11	.14	....	....	....	....	....	....	....	.01	....	....	.12	.01	....	0.82
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Caruthersville	do	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	1.05	.22	.66	....	T.	....	....	....	....	....	T.	.15	.10	....	.30	....	2.53
Doniphan	Black	....	....	....	.19	....	....	....	....	....	....	....	....	....	....	....	.73	1.40	.85	....	....	....	....	....	....	....	....	.27	T.	T.	....	....	3.44
Jackson	Mississippi	....	....	....	.04	....	....	....	....	....	....	....	....	....	....	....	....	1.60	1.83	....	....	....	....	....	....	....	....	....	.03	.34	.23	....	4.07
Leeper ‖	Black	....	....	....	.10	....	....	....	....	....	....	....	....	....	....	....	....	1.90	1.10	....	....	....	....	....	....	....	....	....	....	.50	.20	....	3.80
Marble Hill	Mississippi	....	....	....	.12	....	....	....	....	....	....	....	....	....	....	....	.72	1.75	1.62	....	....	....	....	....	....	....	....	.12	.10	.45	.10	....	4.98
New Madrid‖	do	1.10	....	....	....	.04	....	....	....	....	....	....	....	....	....	....	....	.95	.90	.60	....	.01	....	....	....	....	....	....	.23	.21	.09	....	4.13
Parma	St. Francis	....	....	....	.04	....	....	....	....	....	....	....	....	....	....	....	1.37	.67	.90	....	.10	....	....	....	....	....	....	.10	.20	.06	....	....	3.44
Patton (near)	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.80	1.60	1.16	....	....	....	....	....	....	....	....	....	....	.40	.30	....	4.26
Poplar Bluff	Black	....	....	....	.07	.02	....	....	....	....	....	....	....	....	....	....	1.35	.93	.98	.02	.05	....	....	....	....	....	....	.12	.03	.04	.23	....	3.84
Vanduser	Mississippi	....	....	....	.02	....	....	....	....	....	....	....	....	....	....	....	1.27	.90	1.34	.02	....	....	....	....	....	....	....	....	....	....	.34	....	3.89
Cairo, Ill.***	do	.03	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	.42	.41	1.31	....	....	....	....	....	....	....	T.	.03	.02	....	.21	....	2.43
Ozark Plateau.																																	
Annapolis‖	St. Francis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.53	.83	....	....	....	....	....	....	....	....	....	....	....	.90	....	....	3.26
Arcadia ‖	do	.17	....	....	T.	....	....	....	....	....	....	....	....	....	....	.11	T.	1.66	1.30	.52	....	T.	....	....	....	....	....	....	T.	.28	.43	....	4.47
Birchtree	Black	....	....	....	.21	....	....	....	....	....	....	....	....	....	.10	....	.45	1.40	....	....	....	....	....	....	....	....	....	....	....	.37	.20	....	2.73
Bolivar‖	Osage	....	....	.30	....	....	.15	....	....	....	....	....	....	1.98	.01	.12	....	.27	....	.08	....	....	....	....	....	.12	.06	.12	.34	.80	....	....	4.35
Dean	Neosho	T.	.58	.02	....	.71	.05	.44	....	....	....	....	.06	2.56	1.44	.93	.06	....	.37	....	.32	....	....	....	....	....	.40	.25	....	.40	.95	....	9.54
De Soto‖‖	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	.15	....	.05	.83	1.20	....	....	....	....	....	....	....	....	....	....	.70	.64	....	3.57
Eldon	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	.40	1.35	....	.11	.30	.05	....	....	....	....	....	....	....	.43	....	....	.80	....	....	3.44
Farmington	St. Francis	....	....	....	.04	....	....	....	....	....	....	....	....	....	.04	.10	.42	1.24	1.38	....	....	....	....	....	....	....	T.	.03	T.	.38	.54	....	4.17
Fredericktown‖‖	do	.05	....	....	....	....	....	.03	....	....	.07	....	....	....	....	....	....	2.50	1.50	.40	.60	.20	....	....	....	....	....	1.03	....	....	....	....	6 38
Galena‖‖	White	....	....	....	.95	.05	....	....	....	....	....	....	....	.10	1.56	.44	.22	.18	....	....	.09	....	....	....	....	....	.15	....	.15	.08	1.19	....	5.16
Gano	Meramec	....	....	....	.09	....	....	....	....	....	....	....	....	T.	.18	.03	.07	.72	1.27	....	T.	....	....	....	....	....	T.	.05	....	.70	.48	....	3.59
Goodland	Black	....	....	....	....	....	....	....	....	....	....	....	....	....	.22	1.08	.10	1.15	1.63	....	....	....	....	....	....	....	....	....	....	.53	.28	....	4.99
Greenville	St. Francis	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	.75	2.08	1.08	.01	T	....	....	....	....	....	....	.09	.02	.39	20	....	4.67
Hollister	White	....	....	....	1.30	....	....	....	....	....	....	....	....	....	.80	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.05	....	....	3.15
Houston	Gasconade	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Jerome ‖	do	.36	....	....	.03	....	....	....	....	....	....	....	....	.05	1.11	.22	.05	.73	.50	.12	.03	....	....	....	....	....	....	.17	.05	.53	.83	....	4.78
Koshkonong	Black	.01	....	....	.38	....	....	....	....	....	....	....	....	....	....	....	.57	1.08	.77	....	T.	....	....	....	....	....	.05	.20	....	.81	.05	....	3.92
Lebanon ‖	Osage	....	....	....	....	....	....	....	....	....	....	....	....	.10	1.35	.23	.33	.15	.50	.05	.13	T.	....	....	....	....	.03	.01	.07	.35	1.10	....	4.40
Lockwood	do	T.	....	T.	86	....	T.	....	....	....	....	....	....	2.15	.55	.38	.10	....	.75	....	.08	....	....	....	....	....	.10	.10	....	.20	1.15	....	6.42
Mineral Point‖‖	Meramec	....	....	....	....	....	....	....	....	....	....	....	....	....	.02	....	....	.80	.40	.40	....	....	....	....	....	....	....	....	....	.40	.20	....	2 22
Mountain Grove‖	White	.13	....	....	.14	.20	....	T.	....	....	....	....	....	T	.17	.22	.02	.52	.21	.05	T.	.07	....	....	....	....	T.	.06	.08	.36	.35	....	2.58
Neosho	Neosho	T	....	.45	.25	T.	.09	.14	....	....	....	....	.02	2.76	1.12	.76	.07	....	T.	....	.20	....	....	....	....	....	T	.27	....	.40	1.24	....	7.77
Rolla	Meramec	....	....	....	....	....	.05	....	....	....	....	....	....	.83	.32	.08	.72	.20	.35	T.	.08	....	....	....	....	....	....	.12	.46	.77	....	....	3.98
Seligman	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Seymour	White	....	....	....	.43	....	T.	.11	....	....	....	....	....	.21	.81	.10	.01	.10	.40	....	.09	....	....	....	....	....	.18	.09	....	.51	.65	....	3.69
Springfield***	do	T.	....	.11	.49	....	.06	01	....	....	....	....	.06	.97	.98	.12	.03	.08	.27	....	.04	....	....	....	....	....	.19	.08	.04	1.23	.03	....	4.79
Steelville‖	Meramec	.29	....	....	....	....	....	....	....	....	....	....	....	....	.27	.29	....	.56	.89	.27	....	....	....	....	....	....	....	....	....	.59	.60	....	3.76
Tuscumbia ‖	Osage	.64	....	....	....	....	....	....	....	....	....	....	....	.39	.98	.02	.03	.15	.15	.10	.21	.06	....	....	....	....	.04	.14	.01	.41	.54	....	3.87
Willow Springs‖‖	Black	.62	....	....	.20	.10	T.	....	....	....	....	....	....	....	....	.03	.02	.79	.32	T.	....	....	....	....	....	....	T.	....	.20	.22	.49	....	2.99
Southwest Plain.																																	
Amoret	Osage	.68	....	T.	....	....	.12	.08	....	....	....	T.	.82	.88	.09	.97	1.70	T.	....	....	.09	....	....	....	....	T.	.04	....	....	1.20	.28	....	6.95
Appleton City	do	.12	....	....	....	....	.05	.05	....	....	....	....	.46	.77	.01	.29	.45	T.	.50	....	.12	....	....	....	....	....	.14	....	T.	.04	.77	....	3.77
Clinton	do	.07	....	....	.02	....	.05	.02	....	....	....	....	.18	.85	....	.50	....	....	.75	....	.20	....	....	....	....	....	....	.06	....	.04	1.00	....	3.74
Harrisonville‖	do	....	.99	....	....	....	....	.17	....	....	....	....	.58	.67	.20	.19	1.32	.25	.19	....	.06	....	....	....	....	....	.05	....	....	....	.66	....	5.33
Joplin*	Neosho	.10	....	.48	.20	....	.08	.07	....	....	....	....	.15	2.05	.71	.79	.01	.03	.54	....	....	....	.02	....	....	....	.04	.09	.12	1.01	....	....	6.49
Lamar ‖	do	.05	.33	....	.22	....	....	.18	....	....	....	....	T.	.90	1.26	.66	.61	....	.68	....	T.	....	....	....	....	....	T.	....	.10	.20	.85	....	6.04
Lamonte	Missouri	....	....	....	....	....	T.	....	....	....	....	....	.15	1.15	....	.17	.10	.10	.17	....	.24	....	....	....	....	....	....	....	.02	.63	.20	....	2.93
Marshall	do	....	....	....	....	....	....	....	....	....	....	....	.20	.77	....	.20	.38	.10	.08	....	....	....	....	....	....	....	T.	T.	....	T	.48	....	2.21
Nevada	Osage	T.	....	....	....	....	T.	T.	....	....	....	....	.69	1.11	T.	.74	.68	....	....	....	....	....	....	....	....	....	T.	....	....	....	1.06	....	4.28
Osceola‖‖	do	....	.12	....	....	....	....	.15	....	....	....	....	....	.74	.69	.12	.33	.05	.26	....	.23	....	....	....	....	....	.10	....	....	....	.85	....	3.64
Warrensburg	Missouri	.07	....	....	....	....	.02	.01	....	....	....	....	.44	1.16	....	.66	42	.02	.22	....	.04	....	....	....	....	....	.02	....	....	....	.74	....	3.82
Warsaw	Osage	.06	.09	....	....	....	.04	....	....	....	....	....	.10	1.35	.08	.25	.03	....	.15	....	.05	....	....	....	....	....	.30	....	....	....	1.10	....	3.60
Waverly ‖	Missouri	....	....	....	....	....	....	....	....	....	....	....	.55	.68	.18	.15	.49	.08	.13	....	....	....	....	....	....	....	T.	T.	T	....	.55	....	2.81
Northwest Plateau.																																	
Albany‖‖	Grand	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.80	.07	.60	.11	....	....	....	....	....	....	....	....	....	.45	....	....	....	2.03
Avalon	do	....	....	....	....	....	....	....	....	....	....	....	.55	.45	....	1.30	....	....	....	....	....	....	....	....	.25	....	.50	....	....	.15	....	....	3.20
Bethany	do	....	....	....	....	....	....	....	....	....	....	....	.80	.15	....	.44	.49	T.	....	....	....	....	....	....	....	....	.04	....	....	.35	....	....	2.27
Chillicothe‖‖	do	T.	T.	....	....	....	....	....	....	....	....	....	.35	.42	02	.11	.71	.06	T.	....	....	....	....	....	....	....	.15	T.	....	....	.52	....	2.34
Conception	Missouri	T.	....	....	....	....	....	....	....	....	....	....	.78	....	....	.72	.53	....	....	....	....	....	....	....	....	....	T	....	....	.12	T.	....	2.15
Edgerton	do	.03	....	....	....	....	....	....	....	....	....	T.	.40	.19	....	.95	.88	.19	.01	....	....	....	....	....	....	T.	.13	....	....	.36	.04	....	3.18
Grant City	Grand	.03	....	....	....	....	....	....	....	....	....	T	.63	.08	....	.33	.62	T.	....	....	....	....	....	....	....	....	....	....	....	T.	.33	....	2.02
Kansas City***	Missouri	.11	....	....	....	....	T.	....	....	....	....	.07	.66	.39	....	1.54	.47	.07	....	T.	....	....	....	....	....	.13	.12	....	....	.58	....	....	4.14
Kidder ‖	Grand	.02	....	....	....	....	....	....	....	....	....	....	.48	.52	....	.22	.68	.10	.05	....	....	....	....	....	....	....	.04	....	....	.26	.52	....	2.89
Lexington	Missouri	....	....	....	....	....	....	....	....	....	....	.52	.71	.16	.15	.83	....	.20	....	....	....	....	....	....	....	....	.10	.02	....	....	.50	....	3.19
Liberty	do	....	....	....	....	....	....	T.	....	....	....	....	.57	.42	....	.82	.73	.03	.09	.07	T.	....	....	....	....	....	.27	....	....	.41	.23	....	3.64
Maryville	do	.07	....	....	....	....	....	....	....	....	....	....	.43	.40	....	.03	.74	....	....	....	....	....	....	....	....	....	....	....	....	....	.33	....	2.00
Oregon	do	.03	....	....	....	....	....	....	....	....	....	....	....	.70	....	....	.80	....	....	....	....	....	....	....	....	....	.02	....	....	.41	....	....	1.96
St. Joseph***	do	.01	....	....	....	....	....	....	....	....	....	.12	.55	.18	....	.52	.53	T.	....	....	....	....	....	....	....	.06	T.	....	....	.72	....	....	2.69
Tarkio	do	....	....	....	....	....	....	....	....	....	....	....	.37	....	....	.71	.43	....	....	....	....	....	....	....	....	....	....	....	....	.13	....	....	1.64
Trenton	Grand	....	....	....	....	....	....	....	....	....	....	T.	.71	.09	....	.48	.40	.07	....	....	....	....	....	....	....	.18	....	....	.08	.58	....	....	2.59

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for October, 1923.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	71	70	75	78	71	65	72	76	80	81	84	62	50	60	63	74	71	57	59	52	56	61	63	63	53	47	50	57	51	43	50	63.4
	Minimum	60	57	47	48	48	44	45	45	46	48	48	54	46	41	48	51	60	56	36	36	28	28	30	28	29	39	40	30	36	27	23	42.0
Columbia	Maximum	70	69	74	75	65	61	67	72	76	76	78	70	56	57	66	68	68	63	58	52	55	56	57	62	52	45	49	56	48	45	50	61.8
	Minimum	58	50	45	53	49	45	46	46	48	44	52	56	45	45	51	62	61	43	38	36	28	30	29	29	35	40	38	38	40	29	24	43.0
Fayette	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Hannibal	Maximum	67	67	73	73	63	61	64	70	74	76	78	71	52	57	70	70	69	62	55	51	53	56	56	62	49	45	48	54	50	42	49	60.9
	Minimum	59	50	47	49	46	43	43	43	45	41	48	52	47	46	50	62	61	44	39	34	29	28	29	31	42	39	38	37	36	28	24	42.3
Jefferson City §§	Maximum	72	71	76	75	65	67	68	74	77	80	80	74	49	67	65	67	68	55	58	52	55	55	60	60	56	50	48	55	50	41	50	62.6
	Minimum	62	57	46	49	49	50	46	45	46	44	45	44	44	43	46	49	53	53	38	40	30	27	29	29	36	39	41	41	41	30	22	42.4
Kirksville	Maximum	69	69	75	77	63	61	64	67	76	79	76	62	55	62	60	72	71	66	56	52	56	59	57	65	56	45	45	53	47	45	50	61.6
	Minimum	56	52	47	50	43	39	35	40	44	43	52	49	44	34	46	58	58	46	35	30	27	30	30	29	38	37	29	29	29	23	22	39.5
Louisiana	Maximum	80	70	74	75	76	63	63	65	75	76	78	78	76	75	67	70	70	66	60	55	52	58	58	60	62	55	50	60	58	50	50	65.3
	Minimum	68	50	43	48	47	34	34	35	33	34	30	54	46	42	44	58	62	52	38	33	27	25	25	28	38	45	38	38	33	31	22	39.8
Macon§§	Maximum	70	67	67	73	66	69	65	70	76	79	75	69	57	61	63	70	68	54	56	51	52	61	60	64	52	46	46	55	52	43	51	61.5
	Minimum	53	53	46	47	42	38	35	37	41	42	49	56	44	37	42	52	58	51	33	30	28	30	28	30	33	38	32	29	31	24	20	39.0
Mexico§§	Maximum	70	71	74	75	65	65	67	72	77	80	79	74	49	56	69	68	68	54	57	54	56	58	58	64	56	46	50	58	48	40	50	62.2
	Minimum	47	54	43	44	44	40	39	39	39	37	43	50	45	42	44	50	59	51	34	35	27	23	25	27	36	38	39	38	34	26	22	39.2
St. Catharine	Maximum	71	66	73	75	66	63	65	70	76	76	75	70	59	58	60	72	69	67	57	52	54	57	53	62	59	45	45	52	50	45	48	61.6
	Minimum	58	54	48	48	44	43	41	44	47	47	50	57	44	38	47	59	59	48	34	31	28	29	31	29	35	37	36	31	33	25	23	41.2
St. Louis(1)	Maximum	73	73	74	74	63	63	64	71	73	76	79	78	60	51	69	69	68	63	57	54	52	54	55	62	63	50	50	54	50	49	50	62.6
	Minimum	61	59	55	54	47	45	46	47	50	53	55	56	51	46	50	60	60	48	41	42	37	38	38	40	45	45	43	43	45	33	29	47.2
Unionville	Maximum	70	69	76	75	67	64	66	70	76	78	75	68	57	65	60	72	75	65	65	52	56	60	60	63	57	46	48	52	52	45	48	63.0
	Minimum	55	50	46	48	40	36	34	40	45	46	50	52	42	47	40	54	57	46	34	30	25	30	27	30	36	35	28	28	30	20	22	38.8
Warrenton	Maximum	72	71	76	84	76	69	68	75	78	79	81	76	73	52	69	70	65	64	62	54	50	50	60	61	59	55	49	58	54	49	50	64.8
	Minimum	58	62	46	53	48	39	40	41	50	46	49	50	47	42	49	57	60	36	45	40	30	32	30	35	39	41	39	39	38	30	22	43.0
Southeast Lowlands.																																	
Caruthersville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Doniphan	Maximum	81	79	75	65	67	67	70	74	75	78	78	77	81	71	70	66	70	67	60	57	56	55	56	64	66	61	53	52	56	55	51	66.2
	Minimum	62	55	51	53	51	42	50	48	48	40	40	39	45	52	52	62	61	52	43	32	31	27	27	31	30	35	39	47	49	42	22	43.8
Jackson	Maximum	78	74	76	69	64	67	70	77	77	80	84	80	84	67	77	71	67	66	59	57	55	56	55	62	71	60	60	57	57	57	49	67.2
	Minimum	62	62	49	52	45	38	45	41	39	34	39	39	47	51	50	65	61	52	40	31	30	27	27	32	30	42	42	48	48	34	22	42.7
Poplar Bluff	Maximum	83	79	78	68	70	67	73	77	79	80	80	79	83	71	72	68	69	67	62	58	60	59	59	67	71	54	55	55	57	55	54	68.0
	Minimum	63	56	53	56	50	43	49	48	48	45	45	44	48	52	53	60	62	54	40	35	33	32	32	34	33	41	39	48	50	42	25	45.6
Cairo, Ill.	Maximum	78	76	74	66	66	64	68	73	73	76	79	76	81	68	77	72	72	66	59	60	54	54	55	63	69	57	56	54	62	62	49	66.4
	Minimum	62	59	56	59	49	44	50	47	49	49	51	54	54	58	54	62	64	50	44	39	38	37	36	38	40	43	44	50	51	33	29	48.0
Ozark Plateau.																																	
Arcadia§§	Maximum	76	73	78	72	62	62	66	70	72	77	80	79	76	53	66	67	68	62	59	56	56	56	54	65	72	57	50	54	55	47	54	64.3
	Minimum	62	50	43	47	45	38	41	35	35	33	37	37	42	47	48	50	58	60	38	30	27	23	24	29	34	41	42	42	45	39	21	40.1
Birchtree	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Eldon	Maximum	73	74	75	76	68	60	70	75	80	80	85	75	79	56	63	65	67	54	50	55	57	60	50	55	55	46	48	55	50	50	51	63.1
	Minimum	60	49	46	44	48	48	43	53	42	45	67	51	55	43	48	51	52	45	35	35	31	28	26	30	31	35	35	39	39	31	32	42.5
Farmington	Maximum	73	75	72	73	66	63	70	72	75	76	78	79	75	54	68	65	66	61	54	52	53	55	52	60	66	60	53	55	54	48	48	63 6
	Minimum	61	53	48	55	44	38	43	40	42	38	42	46	45	48	48	58	53	49	38	34	31	27	31	34	41	42	42	42	44	37	24	42.5
Hollister	Maximum	86	84	82	70	71	75	75	78	80	82	84	85	78	56	60	58	71	70	60	50	62	60	64	62	70	71	74	63	60	58	55	69.5
	Minimum	54	52	53	55	56	45	50	56	42	58	60	60	38	50	52	50	58	56	40	38	26	24	22	24	24	26	24	42	40	36	20	42.9
Koshkonong	Maximum	78	77	74	70	72	66	70	74	76	78	78	78	79	70	66	64	66	64	58	55	55	54	..	63	65	60	49	55	53	55	51	[a]65.8
	Minimum	63	57	54	56	50	43	50	46	50	46	50	50	53	53	52	59	61	52	40	39	34	32	..	33	41	43	40	45	50	40	26	[a]46.9
Lebanon§§	Maximum	..	..	..	..	..	..	..	83	81	81	80	78	54	53	64	62	69	59	57	59	52	60	58	63	63	47	47	64	52	45	50	[g]61.7
	Minimum	..	..	..	..	..	..	..	..	45	43	39	46	49	42	42	50	57	52	33	35	34	23	23	24	24	33	38	38	38	32	20	[h]37.4
Mountain Grove§§	Maximum	79	77	78	62	70	74	70	75	77	76	76	78	61	55	64	63	65	56	56	53	56	60	59	64	68	56	47	58	54	45	51	64.0
	Minimum	61	54	48	49	46	44	45	46	47	50	50	50	50	47	47	51	58	55	35	36	28	27	25	24	25	33	41	42	43	35	22	42.4
Neosho	Maximum	80	75	71	65	76	72	72	78	79	80	79	73	63	51	64	76	70	71	59	60	59	63	61	66	63	56	53	52	62	63	46	66.4
	Minimum	53	59	54	57	48	49	51	48	49	44	40	50	48	45	50	58	54	55	35	32	27	25	27	26	31	43	44	40	49	34	21	43.4
Rolla	Maximum	73	72	75	74	69	62	70	75	78	78	79	78	78	50	65	62	67	64	56	54	55	58	58	62	63	55	46	53	50	55	50	64.0
	Minimum	63	54	47	56	48	44	45	42	45	42	48	48	48	45	49	58	60	49	36	38	30	28	32	32	34	40	41	40	43	32	22	43.2
Springfield	Maximum	72	74	71	62	70	61	66	73	74	73	74	72	58	51	62	65	66	60	56	52	53	55	56	60	61	46	47	56	56	53	48	61.4
	Minimum	59	57	55	54	50	48	50	50	54	54	52	55	46	45	51	60	59	44	37	39	34	35	35	36	39	41	42	40	49	32	27	46.1
Southwest Plain.																																	
Amoret	Maximum	70	72	68	74	71	60	64	72	78	76	75	61	52	56	68	72	70	67	61	54	55	58	58	62	53	47	52	54	53	47	52	62 3
	Minimum	57	56	48	54	48	45	48	45	45	48	50	52	44	42	47	47	53	50	34	40	29	29	29	28	37	37	42	32	40	28	22	42.1
Appleton City	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Clinton	Maximum	72	75	75	78	75	68	72	79	84	82	83	73	62	60	66	72	73	66	65	60	60	62	60	65	58	56	50	55	52	50	56	66.6
	Minimum	61	65	50	50	50	48	50	48	49	48	50	57	46	45	50	58	60	54	35	42	45	30	30	30	36	42	43	36	42	30	25	45.3
Harrisonville§§	Maximum	67	71	67	75	70	58	66	74	77	76	75	61	48	56	61	71	72	60	62	56	57	57	57	64	55	46	51	56	48	45	54	61.7
	Minimum	61	55	50	56	48	47	48	48	51	51	50	52	44	45	47	51	60	53	34	36	34	36	35	36	38	39	40	38	42	28	22	44.4
Lamar§§	Maximum	60	69	57	60	53	53	55	75	82	82	80	66	49	56	62	75	71	60	61	56	58	62	61	63	52	48	47	56	60	43	51	60.7
	Minimum	58	59	54	55	51	52	51	48	50	52	47	50	48	44	44	56	60	55	37	38	31	30	30	29	30	35	41	38	42	35	24	44.3
Lamonte	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Marshall	Maximum	71	72	74	77	68	63	70	73	78	79	77	68	60	58	67	71	70	68	60	55	62	67	59	62	57	50	53	55	49	47	50	64.2
	Minimum	60	55	48	56	49	42	44	44	44	44	48	56	41	40	49	59	59	51	33	37	28	28	29	29	34	41	41	32	39	27	20	38.9
Nevada	Maximum	72	72	71	73	71	64	68	76	77	77	77	71	61	55	62	73	73	65	60	51	55	58	59	62	58	58	55	52	56	54	49	64.0
	Minimum	58	58	50	57	50	51	51	46	50	52	52	54	45	45	50	60	60	56	57	33	34	35	34	30	37	41	42	34	44	32	22	45.8
Warrensburg	Maximum	72	75	73	78	70	64	70	77	79	80	80	69	59	58	63	71	74	70	62	62	58	60	60	65	62	49	54	58	50	49	53	65.3
	Minimum	62	57	47	56	48	46	47	45	48	52	57	55	45	43	49	59	59	52	34	39	28	31	34	29	32	39	42	33	42	28	21	43.8
Warsaw	Maximum	76	73	72	76	70	66	70	75	79	79	80	70	59	58	63	67	67	65	60	54	56	60	61	62	63	50	49	54	53	52	53	64.3
	Minimum	58	55	46	56	48	47	49	47	45	44	44	55	45	45	50	60	58	53	38	39	29	26	28	25	30	42	43	37	39	31	20	43.0
Northwest Plateau.																																	
Chillicothe §§	Maximum	68	69	75	76	66	64	68	74	78	81	76	62	51	58	61	71	69	56	58	51	56	61	61	63	51	40	49	56	51	42	50	61.7
	Minimum	58	52	41	47	45	43	45	45	45	43	47	56	44	34	42	49	59	53	34	30	25	26	27	26	28	37	29	29	33	25	22	39.3
Grant City	Maximum	75	74	78	72	70	63	67	71	77	76	75	68	65	64	58	66	69	66	60	55	56	59	60	66	54	49	48	57	52	43	52	63.4
	Minimum	56	51	48	49	44	43	45	49	49	47	65	52	43	34	45	56	60	47	31	28	26	31	33	30	37	30	28	25	32	19	20	40.4
Kansas City	Maximum	68	70	66	74	65	60	67	74	76	78	73	61	50	58	62	70	67	60	60	53	54	58	59	63	51	45	53	53	50	44	52	61.1
	Minimum	62	56	55	57	50	48	50	52	54	56	58	48	44	44	49	61	60	46	40	41	36	40	38	39	39	36	41	37	36	29	28	46.1
Kidder§§	Maximum	69	69	78	78	69	65	69	76	81	81	76	63	53	60	65	67	69	57	60	53	56	61	62	64	53	46	48	57	52	43	52	63 0
	Minimum	59	50	49	50	56	41	42	45	45	46	48	55	43	36	38	48	54	51	33	31	28	31	30	29	32	36	32	27	31	25	21	40.1
Lexington§§	Maximum	77	77	70	69	77	67	62	68	74	78	78	76	66	56	58	61	70	71	65	61	59	57	58	59	65	53	49	51	46	50	48	63.7
	Minimum	63	57	49	54	49	45	47	48	48	46	54	55	45	39	49	59	60	53	36	37	31	30	39	30	41	39	42	32	36	27	24	44.0
Maryville	Maximum	66	66	71	73	66	61	64	70	74	74	73	65	54	60	58	67	68	61	58	50	53	57	58	61	49	44	49	52	51	51	50	60.5
	Minimum	57	54	51	49	46	44	48	48	49	49	57	51	44	35	45	57	59	46	34	30	28	34	34	31	39	36	29	25	31	20	21	41.3
Oregon	Maximum	64	65	68	69	65	64	60	69	73	74	72	66	59	59	60	67	68	63	58	49	50	56	56	59	50	45	48	49	51	41	45	59.4
	Minimum	60	50	53	51	49	45	46	52	51	51	57	49	44	37	45	59	59	48	34	31	30	34	35	33	39	36	31	29	32	23	22	42.4
St. Joseph	Maximum	66	68	73	74	69	61	67	75	77	77	73	62	56	60	61	66	67	59	60	51	55	59	60	62	48	43	51	54	54	40	50	61.2
	Minimum	60	54	53	55	50	47	49	52	51	52	59	47	44	41	47	60	58	45	39	36	30	35	36	32	38	37	31	29	32	26	26	43.6
Trenton	Maximum	70	67	71	72	63	63	64	69	72	73	72	65	54	59	60	70	71	63	56	51	50	55	55	60	52	47	48	50	51	42	46	60.0
	Minimum	60	51	50	51	47	45	45	50	49	48	51	50	45	37	47	49	58	49	37	32	30	30	32	30	40	38	33	31	35	29	24	42.0

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVII. COLUMBIA, MO., NOVEMBER, 1923. No. 11.

GENERAL SUMMARY.

The prevailing weather of November, 1923, in Missouri, was comparatively calm and settled, the usual type expected in this autumn month. The month opened cold but soon warmed up. Two other cold snaps, reminding one of winter, came along on the 8th, and 27-29th, but in each case there was a quick reaction to mild weather. The human body is particularly sensitive to moisture and wind, and we find that these two elements were below normal, while the sunshine and temperatures were practically normal. The month, consequently, was pleasant from the side of personal comfort. Aside from this, the one marked change and outstanding feature was a general and heavy snow on the 29th.

Precipitation prevailed for only a day or two at a time, and fell at intervals of eight or ten days, affording ample soil moisture for needs, at the same time the dry intervals were favorable for all outdoor work.

Pastures furnished good grazing and live stock kept in good condition at a minimum cost. Winter wheat stooled fairly well, the general condition being satisfactory at the close of the month.

TEMPERATURE.

The monthly mean temperature for the State, based upon the records of 66 stations, was 45.1°, or 0.6° higher than the 36-year average. Temperatures were uniformly distributed, averages for the different divisions agreeing within small values. Generally the first and last ten days were variable, some days being a little warmer and others cooler than normal, but the remainder of the month was milder than normal, except the 16th. The 10th and 11th were the warmest days, afternoon maxima ranging between 75° and 80°. Probably the 1st, 8th, and 28th were the coldest days, 14° above zero being the minimum. There were 13 days with minimum temperature of 32° or lower.

PRECIPITATION.

The average precipitation for the State, 102 stations reporting, was 2.15 inches. The departure from the 56 years' average was minus 0.20 inch. Precipitation was quite uniformly distributed, falling on one or two days at a time at intervals of about ten days. The greatest monthly amount was 4.45 inches, at Parma, New Madrid County, and the least amount was 0.26 inch, at Oregon, Holt County. The greatest in any 24 consecutive hours was 2.30 inches, at Vanduser, Scott County, on the 3rd.

A general snowstorm occurred on the 29th, except in the southeast section and along the southern Ozark slope. Amounts over the western part of the State were unusually heavy, ranging from 7 to 10 inches. It melted rapidly, as the soil was relatively warm, and wet.

WIND.

The prevailing winds were from the southwest. The monthly movement, 8 stations equipped with anemometers reporting, was 6,032 miles. The average hourly velocity was 8.4 miles, and about 25 per cent less than normal. There were no high winds.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well placed stations equipped with sunshine recorders reporting, was 182. This is about 61 per cent of the possible, and about 4 per cent more than normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense.—9th, 13th, 14th, 15th, 22d, and 23d.
Halos, solar.—1st, 11th, 12th, 13th, 24th, 25th, and 27th.
Halos, lunar.—20th, 21st, 23rd, 25th, and 27th.
Sleet.—In southwest section on 25th and 29th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.10	83	65	186	62	5,158	7.2	26	nw.	23
Hannibal	30.11	81	..	...	..	5,384	7.5	24	sw.	20
Kansas City	30.11	77	57	210	70	7,105	9.9	30	nw.	16
St. Joseph	30.10	83	62	192	64	4,954	6.9	26	nw.	25
St. Louis	30.10	76	62	177	59	8,580	11.9	42	sw.	29
Springfield	30.11	83	64	173	57	6,565	9.1	27	s.	20
Cairo, Ill	30.11	80	59	...	..	5,776	8.0	36	sw.	29
Keokuk, Iowa	30.11	79	65	154	52	4,734	6.6	22	w.	25

COMPARATIVE DATA FOR NOVEMBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	41 6	−2.0	87	15	3.26	+0.94	.....	.....	11	....	.....	.....
1889	39.9	−3.7	73	8	3.43	+1.11	.....	.....	7	....	.....	.....
1890	46.5	+2.9	80	20	2.31	−0.01	.....	.....	5	....	.....	.....
1891	39.6	−4.0	82	− 2	3.60	+1.28	.....	.....	5	....	.....	.....
1892	40.1	−3.5	79	9	2.60	+0.28	.....	1.0	6	11	7	12
1893	40.9	−2.7	79	− 1	1.54	−0.73	4.86	0.3	4	14	9	7
1894	41.0	−2.6	80	3	1.58	−0.74	2.20	T.	4	15	9	6
1895	41.6	−2.0	82	2	3.37	+1.05	2.98	3.2	8	10	7	13
1896	42.3	−1.3	82	5	2.18	−0.14	4.00	0.2	6	11	7	12
1897	43.4	−0.2	82	− 3	2.40	+0.08	3.39	T.	6	13	8	9
1898	39.9	−3.7	79	− 8	2.28	−0.04	2.75	2.3	6	14	8	8
1899	49.5	+5.9	82	16	1.90	−0.42	2.66	0.2	7	11	9	10
1900	43.7	+0.1	84	7	2.58	+0.26	4.55	0.2	6	15	7	8
1901	43.6	0.0	84	9	1.38	−0.94	1.90	0.3	4	17	7	6
1902	50.1	+6.5	85	18	3.62	+1.20	2.14	0.4	9	8	9	13
1903	40.9	−2.7	79	2	1.24	−1.08	2.44	1.1	5	13	8	9
1904	46.3	+2.7	83	11	0.22	−2.10	0.68	T.	2	21	5	4
1905	45.8	+2.2	83	2	1.94	−0.38	2.49	T.	6	18	6	6
1906	42.5	−1.1	88	− 3	2.60	+0.28	3.60	5.0	8	12	6	12
1907	43.8	+0.2	88	5	2.52	+0.20	3.00	T.	4	19	4	7
1908	47.6	+4.0	87	9	4.14	−1.82	4.00	0.2	8	15	7	8
1909	53.6	+10.0	87	11	4.43	+2.11	6.18	0.4	8	12	7	11
1910	42.0	−1.6	83	11	0.38	−1.94	0.70	0.1	3	15	8	7
1911	39.1	−4.5	93	− 3	2.55	+0.23	2.15	1.1	7	13	6	11
1912	45.9	+2.3	88	12	1.52	−0.80	2.37	0.1	3	20	5	5
1913	51.7	+7.4	80	11	2.73	+0.35	2.50	T.	7	10	8	12
1914	48.6	+4.0	89	2	0.65	−1.84	1.90	0.1	3	19	6	5
1915	49.5	+4.9	87	12	2.76	+0.33	2.62	0.1	5	16	7	7
1916	49.6	+5.9	85	3	2.49	+0.14	2.53	0.1	4	19	4	7
1917	46.1	+1.5	80	8	1.05	−1.46	3.26	T.	3	14	5	11
1918	44.9	+0.5	85	12	3.18	+0.79	4.60	1.2	6	15	4	11
1919	42.2	−2.2	78	2	3.62	+1.40	3.36	1.0	6	15	5	10
1920	40.9	−3.5	82	6	1.21	−1.09	1.89	T.	6	12	6	12
1921	45.6	+1.2	84	10	2.82	+0.40	4.29	0.4	5	13	7	10
1922	47.8	+2.9	84	15	3.82	+1.45	3.40	T.	7	16	6	8
1923	45.1	+0.6	79	14	2.15	−0.20	2.30	3.0	5	15	6	9

Climatological Data for November, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	43	44.2	+ 2.7	73	11	23	27†	38	1.76	−0.21	0.96	2.5	5	16	0	14	nw.	O. K. Benecke
Clifton Hill	Randolph	731	24	42.6	− 1.2	66	11	20	27	28	1.55	−0.36	0 50	4.0	8	13	9	8	......	Dr. A. J. Bradsher
Columbia	Boone	748	33	45.5	+ 3.0	72	10	23	27	31	1.35	−0.96	0.62	0.8	7	13	6	11	se.	U. S. Weather Bureau
Downing	Schuyler	878	13	45.2	......	70	10†	24	22†	34	1.60	−0.03	1.30	7.0	4	10	6	14	w.	E. E. St. Clair
Fayette	Howard	661	43	41.2[a]	− 1.1	70	10	18	1	43	1.93	−0.07	1.15	2.0	3	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	35	45.3	+ 0.8	70	12	23	1†	35	1.80	−0.45	0.78	T.	6	14	7	9	n.	Westminster College
Gorin	Scotland	700	36	....	......	..	..	..	..	..	1.05	−0.91	0.53	3.9	6	14	2	14	nw.	I. S. McCollom
Hannibal	Marion	534	40	44.6	+ 2.5	71	10	24	9	33	1.91	−0.04	1.07	1.2	9	12	6	12	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	40	45.4	+ 1.3	71	11†	22	27	32	2.64	+0.37	0.92	0	7	20	0	10	n.	Miss Emma Swift
Kirksville	Adair	969	40	43.2	+ 2.7	78	10	20	24	39	2.38	+0.62	0.80	8.5	5	14	2	14	nw.	Prof. J. S. Stokes
Louisiana	Pike	469	42	46.0	+ 1.8	74	13	22	9	38	1.26	−1.02	0.63	T.	8	17	3	10	n.	J. T. Farrell
Macon	Macon	875	30	42.3	− 1.1	73	11	20	28	42	1.91	−0.02	0.62	0.3	5	16	7	7	sw.	W. C. Brown
Mexico	Audrain	800	45	43.2	+ 0.2	72	11	20	27	37	1.74	−0.58	0.61	0.2	6	21	0	9	sw.	Mrs. Abbie Snoddy
Palmyra	Marion	652	24	44.0	+ 0.2	70	11	21	1†	34	1.16	−1.15	0.70	2.0	5	15	4	11	sw.	W. B. Markell
St. Catharine	Linn	800	13	43.6	+ 0.7	67	10†	21	27	33	1.73	0.00	0.46	8.0	8	13	8	9	sw	L. D. Baker
St. Charles	St. Charles	456	45	46.0	+ 0.5	75	10	23	27	34	1.77	−0.77	0.55	0	6	13	7	10	nw.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	47.9	+ 2.8	70	10	30	27	27	1.90	−0.98	1.03	T.	6	12	7	11	nw.	U. S. Weather Bureau
St. Louis (2)	do.	578	9	46.8	+ 0.3	70	10†	30	27	26	2.25	−0.06	0.87	0	7	12	6	12	se.	St. Louis University
Shelbina	Shelby	779	30	....	......	..	..	..	..	..	....	......	....	..	..	..	..	.	.....	W. M. Nolin
Steffenville	Lewis	650	30	46.0	+ 2.2	74	11	22	1	33	1.46	−0.47	0.45	1.0	7	14	7	9	w.	Frank Hall
Unionville	Putnam	1,062	30	42.8	+ 2.6	70	11	20	27†	36	2.15	−0.33	1.10	11.0	5	10	9	11	n.	Geo. W. Davis
Warrenton	Warren	816	41	45.4	+ 2.5	71	12	23	27	26	1.93	−0.66	0 61	0	6	15	3	12	nw.	Prof. A. W. Ebeling
Keokuk, Iowa.	Lee, Ia.	574	50	43.6	+ 2.5	70	10	26	27	32	1.26	−0.59	0.55	3.7	8	11	8	11	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	44.5	+ 1.3	78	10	18	1	43	1.75	−0.39	1.30	2.6	6	14	5	11	nw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	32	52.2	+ 2.3	76	12	31	28	40	3.75	−0.10	1.60	0	5	16	6	8	e.	H. E. Averill
Doniphan	Ripley	344	19	47 0	− 0.6	71	11	24	27	41	2.92	−0.20	1.08	0	9	12	15	3	nw.	W. W. Martin
Jackson	Cape Girardeau	428	33	47.4	+ 0.7	76	12	24	1†	40	2.84	−0.29	1.14	0	8	9	4	17	n.	John G. Putz
Marble Hill	Bollinger	470	29	48.0	+ 3.6	77	11	21	8	40	3.70	+0.53	1.65	0	6	16	3	11	n.	R. A. DeWitt
Parma	New Madrid	281	2	....	......	..	..	..	..	..	4.45	......	1.71	0	5	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	13	....	......	..	..	..	..	..	2.50	+0.27	1.05	0	3	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	329	19	49.4	+ 2.0	77	11	26	28	40	3.36	+0.10	1.32	0	8	14	8	8	ne.	Rev. J. A. Gallaher
Vanduser	Scott	304	2	....	......	..	..	..	..	..	4.25	+0.60	2.30	0	6	..	..	..	.....	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	51	49.1	+ 1.8	72	12	29	28	28	3.59	−0.43	1.78	0	7	10	7	13	n.	U. S. Weather Bureau
Section means and	extremes	....	..	48.9	+ 1.6	77	11	21	8	41	3.48	+0.06	2.30	0	6	13	7	10	n.	
Ozark Plateau.																				
Arcadia	Iron	926	45	45.4	+ 1.4	77	11†	20	28†	45	1.73	−1.89	0.52	0	6	16	4	10	s.	Arcadia College
Birchtree	Shannon	1,000	29	....	......	75	9†	22	28	42	2.06	−0.83	0.64	0	6	19	2	9	s.	V. H. Kirkendall
Bolivar	Polk	1,071	36	46.8	0.0	75	10†	23	27†	36	3.64	+1.11	1.04	5.0	7	15	11	4	s.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	24	....	......	..	..	..	..	..	3.81	+0.77	1.62	7.0	8	22	1	7	s.	H. E. Dean
Eldon	Miller	934	24	45.4	+ 0.2	74	11	20	28	42	2.04	−0.17	0.62	2.0	6	12	9	9	sw.	E. H. Shepherd
Farmington	St. Francois	918	26	46.6	+ 2.3	72	11†	24	28	30	2.07	−1.89	0.70	0	7	12	7	11	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	44.2	− 2.6	69	12	18	28	31	2.02	−0.29	0.65	0	7	15	4	11	sw.	A. C. Leach
Goodland	Iron	1,000	30	45.6	+ 1.0	74	11	19	27	39	1.27	−1.62	0.46	0	5	14	5	11	s.	F. M. Adams
Greenville	Wayne	381	1	46.8	......	75	11	20	29	47	2.50	......	1.11	0	8	18	4	8	s.	J. J. Amen.
Hollister	Taney	735	20	49.8	+ 1.6	76	11†	20	28	44	3 85	+1.07	1.30	0	5	13	6	11	sw.	Mrs. W. P. Chapmann
Houston	Texas	1,280	31	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	.....	Walter T. Beard
Koshkonong	Oregon	958	22	48.6	− 0.8	73	11†	24	28	36	2.14	−0.88	0.98	0	8	14	2	14	nw.	R. M. Hitt
Lebanon	Laclede	1,265	36	44.4	− 1.6	72	12	20	1†	40	3.66	+1.12	1.48	T.	8	19	4	7	n.	Leonard E. Dickerson
Lockwood	Dade	1,078	27	47.6	− 0.1	70	10	24	28	37	3.70	+1.49	1.35	7.0	6	19	3	8	sw.	C. S. Crow
Mountain Grove	Wright	1,463	26	45.0	− 1.6	71	11	21	28	43	2.40	−0.03	0.83	T.	9	9	6	15	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	40	48.0	+ 0.8	74	20	23	27	39	4.33	+1.27	1 80	0	7	15	2	13	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	39	47.1	+ 2.2	73	11	20	28	32	2.23	−0.08	0.49	0	8	18	4	8	n.	Prof. Elmo G. Harris
Seligman	Barry	1,542	19	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	Floyd E. Fawver
Seymour	Webster	1,642	17	46.2	+ 0.1	71	11	20	28	36	3.58	+1.25	1.06	T.	6	15	7	8	nw.	Ira H. Hailey
Springfield	Greene	1,350	45	47.0	+ 2.6	68	20	24	28	26	3.47	+0.83	1.16	2.6	9	16	4	10	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	46.5	+ 0.4	77	11†	18	28	47	2.81	+0.07	1.80	1.3	7	16	5	9	s.	
Southwest Plain.																				
Amoret	Bates	831	17	45.2	− 0.3	70	10†	20	27†	36	1.92	+0.26	0.74	8.0	5	16	4	10	sw.	Darby Fruit Farm
Appleton City	St. Clair	853	31	47.3	+ 1.2	71	10	24	27†	35	2.78	+0.65	0.72	5.8	7	16	8	6	sw	W. G. Bigelow
Clinton	Henry	765	36	49.2	+ 1.9	75	10	25	27†	32	2.51	+0.63	1.00	7.0	6	14	7	9	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	45.4	+ 3.0	74	10	24	28	40	1.81	−0.14	0.85	7.0	6	10	1	19	nw.	John H. Patterson
Lamar	Barton	980	42	45.8	− 0.8	71	20	25	1†	41	2.47	+0.23	1.10	7.5	7	13	6	11	sw.	Jesse A. Mann
Lamonte	Pettis	867	36	45.8	+ 1.4	75	11	20	27	40	1.79	−0.11	0.57	6.5	7	16	8	6	se.	J. E. Wheeler
Marshall	Saline	779	34	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	..	Dr. W. H. Black
Nevada	Vernon	862	31	46.8	+ 2.4	71	10	23	27†	38	2.02	+0.14	1.04	7.5	4	17	6	7	s.	George A. Kaupp
Warrensburg	Johnson	878	43	47.2	+ 2.3	77	11	21	27	38	1.91	+0.13	0.60	8.0	7	13	9	8	sw	E. A. Markey.
Warsaw	Benton	687	28	47.2	− 0.3	73	10	19	28	39	2.40	−0.01	0.70	7.0	6	10	13	7	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	46.8	+ 1.2	77	11	19	28	41	2.23	+0.25	1.10	7.2	6	14	6	10	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	34	45.8	+ 1.9	72	10†	22	27	32	2.20	+0.23	1.25	10.0	4	14[b]	4[b]	10[b]	nw.	F. G. Ashbaugh
Bethany	Harrison	916	32	43.0	+ 0.1	79	10	18	1†	59	0.81	−0.96	0.50	5.0	2	13	8	9	ne.	Owen Ross
Chillicothe	Livingston	779	17	42.0	− 0.6	70	10	20	1	46	1.74	−0.59	0.72	8.0	4	19	4	7	nw.	Wm. J. Olenhouse
Conception	Nodaway	980	39	43.7	+ 2.3	68	11	18	28	36	0.43	−0.93	0.31	1.0	2	17	6	7	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	11	43.4[a]	......	70	10	14	28	38	1.06	−0.41	0.42	5.1	4	23	1	6	s.	Fred L. Stiff
Grant City	Worth	1,134	31	45.6	+ 3.2	70	10	19	30	39	0.60	−1.01	0.42	1.8	3	13	12	5	sw.	B. F. Locke
Kansas City	Jackson	963	50	47.0	+ 5.5	71	10	24	28	29	1.66	−0.19	1.01	9.1	4	14	7	9	nw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	36	43.6	− 0.4	73	11	19	28	40	1.51	−0.33	0.80	8 0	5	22	0	8	se.	Linn Terry
Lexington	Lafayette	688	41	46.4	+ 2.4	73	11	23	28	31	1.75	−0.10	0.80	7.5	6	16	7	7	n.	Edwin G. Loomis
Liberty	Clay	859	33	45.6	+ 1.6	73	10	17	28	39	2.06	+0.28	1.28	10.6	5	21	3	6	nw.	James H. Harris
Maryville	Nodaway	1,169	29	44.1	+ 5.1	70	11	18	28	39	0.27	−1.38	0.21	0.5	3	19	5	6	n.	J. R. Brink
Oregon	Holt	1,048	67	43.6	+ 3.3	64	10†	18	28	34	0.26	−1.43	0.14	T.	3	19	5	6	ne.	Tom Curry
St. Joseph	Buchanan	967	50	45.0	+ 1.3	69	11	20	28	32	0.68	−1.12	0.31	2.3	4	18	3	9	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	30	42.0	+ 1.4	68	11	14	28	40	0.30	−1.15	0.30	0	1	18	6	6	nw.	Albert Volker
Trenton	Grundy	822	28	43.6	+ 1.2	65	10	22	27	29	1.49	−0.31	0.99	8.0	5	19	4	7	n.	W. H. Estes
Section means and	extremes	.....	..	44.3	+ 2.0	79	10	14	28	59	1.12	−0.63	1.28	5.1	4	18	5	7	nw.	
State means and	extremes	.....	..	45.1	+ 0.6	79	10	14	28	59	2.15	−0.20	2.30	3.0	6	15	6	9	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b], represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for November, 1923.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri			.12	.20									1.20	.03									.10							.28		1.93
Brunswick‖	Grand			.05	.14									.96										.18							.43		1.76
Clifton Hill	Chariton			.17	.04								.18	.50	.02									.23						.11	.30		1.55
Columbia***	Missouri		T.	.25	.01								.05	.21									.21	T.						.58	.64		1.35
Downing	Mississippi			.05									.10	.15																	1.30		1.60
Fayette‖‖	Missouri																																....
Fulton	do			.26										.78									.05	.17						.39	.15		1.80
Gorin	Mississippi			.06	.06								.01	.10									.53							.29			1.05
Hannibal***	do			.18	.05								.06	.29	.01	.01							.21	.03		T.				1.07			1.91
Hermann‖	Missouri			.03	.26									.02	.81	.04								.22							.70		2.08
Jefferson City‖	do			.20	.15									.25	.92									.47						.55	.10		2.64
Kirksville	Mississippi			.07									.60	.15										.80						.76			2.38
Louisiana	do			.12	.27									.02	.10	.02								.05						.05	.63		1.26
Macon ‖	Chariton				.34									.62	.03										.43						.49		1.91
Mexico ‖	Mississippi				.31	.02							.15	.30										.35							.61		1.74
Milan‖	Grand			.22									.20	.35	T.								.30								.80		1.87
Pacific‖	Meramec																																....
Palmyra‖	Mississippi				.20									.08	.10	08															.70		1.16
St. Catharine	Grand			.03	.04								.46	.34	.02									.43		T.				.15	.26		1.73
St. Charles	Missouri			.31	.10	.36								T.	.20								T.	.25						.55			1.77
St. Louis (1)***	Mississippi			.73	.33	T.								T.	.19								.08	.01						.56	T.		1.90
St. Louis (2)	do			.87	.29	T.								T.	.29	.01							.11	.01						.67			2.25
Shelbina	do																																...
Steffenville	do			.15									T.	.08	.05	T								.45		.03				.35	.35		1.46
Union‖	Meramec			.18	45										.18	.20								.32						.05	.62		2.00
Unionville	Chariton			T.									.60	.30	T.									.15						.05	1.05		2.15
Valley Park‖	Meramec			.15	.75	.02	T.								.11	.18								.18						.14	.54		2.07
Warrenton	Mississippi			.29	.12									T.	.61								T	.34						.45	.12		1.93
Keokuk, Ia.***	do			.10	.01								.09	.01	.01	.04							.46			T.				.48	.07		1.26
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi			.35	1.10	T.	.22									.01								.32			.15			.43	.12		2.70
Caruthersville	do			1.60	.10		T.									T.							.22			T.	.90			.93			3.75
Doniphan	Black			1.08	.08	T.	.12									.11							.40	.03		.15	.23			.72			2.92
Jackson	Mississippi			1.14	.35	.01	.18																.31	.03			.13			.69			2.84
Leeper ‖	Black																																....
Marble Hill	Mississippi			1.65	.30	.14	.36																.30							.95			3.70
New Madrid‖	do			.60	1.17		.17	.02								.01							.01	.36			.93			.70	.26		4.23
Parma	St. Francis			1.71			.16																.30				1.55			.73			4.45
Patton (near)	Mississippi				1.05																		.70							.75			2.50
Poplar Bluff	Black			1.32	.50		.04									.01							.50				.21			.76	.02		3.36
Vanduser	Mississippi			2.30			.27																.48	.03			.33			.84			4.25
Cairo, Ill.***	do			1.78	.02	T.	.02				T.				T.	T.						T.	.38			.59	.17			.63	T.		3.59
Ozark Plateau.																																	
Annapolis‖	St. Francis				.86																		.49							.59			1.94
Arcadia‖	do			.52	.35	T.										.06								.28			T.			.20	32		1.73
Birchtree	Black			.64	.08											.05							.55				.24			.50			2.06
Bolivar‖	Osage			1.04	.18										.86	.45							.58							.28	.25		3.64
Dean	Neosho		.06	1.62	.03									.92	.43								.27			.03				.45			3.81
De Soto‖	Mississippi			.60	.36										.09								.51							.47			2.03
Eldon	Missouri			.62	.04									.35	.05								.45							.53			2.04
Farmington	St. Francis			.70	.31	T.									.04	.10							.40			.04				.48			2.07
Fredericktown‖	do						.03	.05	.02					.46		.24						.60						.03			.55		1.98
Galena‖	White			1.75	.07									.09	.90	.05								.40						.70	.22		4.18
Gano	Meramec			.54	.10	.04								.12	.20								.37							.65			2.02
Goodland	Black			.33	.15	.08																		.25						.46			1.27
Greenville	St. Francis			1.11	.10	T.	.05									.01							.46				.02	.74			.01		2.50
Hollister	White			1.30										1.05	.30								.30					.90					3.85
Houston	Gasconade																																....
Jerome ‖	do			.42	.05									.05	.63	.10								.43						.32	.27		2.27
Koshkonong	Black			.98	.04	.03									T.								.28	.03			.13			.63	.02		2.14
Lebanon‖	Osage			.68	.08									.40	1.48	T							.05	.40						.30	.27		3.66
Lockwood	do			1.35	T.								.30	.50	.53								.32							.70			3.70
Mineral Point‖	Meramec																																....
Mountain Grove‖	White			.83	.04	.03	T.							T.	.27	.11							.07	.26			T.			.65	.14		2.40
Neosho	Neosho		T.	1.80	.05							T.	.55	.48									.28			T.				1.15	.02		4.33
Rolla	Meramec		.36	.25	.02	T.								.35	.20								.49						.29	.27			2.23
Seligman	Neosho																																....
Seymour	White			1.06	T.	.10								1.03	.60								.36			T.				.43			3.58
Springfield***	do		.28	.89	.02	.02							.02	.89	.46								.11	T.		T.				.78			3.47
Steelville‖	Meramec			.29	.40	.03									.20	.20								51						.28	.26		2.17
Tuscumbia‖	Osage			.40	.07	T.	T.							.10	.59	T.								.48						.10	.62		2.36
Willow Springs‖	Black			.60	.10									T.	T.	.20							.15	.48			.17			.55	.15		2.40
Southwest Plain.																																	
Amoret	Osage		T.	.70									.17	.09									.22							.74			1.92
Appleton City	do			.69	.02								.28	.23									.62	T.						.72	.22		2.78
Clinton	do			.65	.06								.35										.45							* *	1.00		2.51
Harrisonville‖	do			.29	.12								.31	.02										.22						.85			1.81
Joplin*	Neosho																																....
Lamar‖	do			1.10	.25									.30	.03									.04						.05	.70		2.47
Lamonte	Missouri																																....
Marshall	do																																....
Nevada	Osage			1.04									.11	.19																.68			2.02
Osceola‖	do			.55	.29									.32	.02								.20	.62						.10	.98		3.08
Warrensburg	Missouri			.53	.06								.36	.06					.06				.24							.60	T.		1.91
Warsaw	Osage			.55									.15	.50									.45	T.						.70	.05		2.40
Waverly‖	Missouri			.14	.20								.26	.13										.25						T.	.76		1.74
Northwest Plateau.																																	
Albany‖	Grand																																....
Avalon	do												.55	.10									.30							1.25			2.20
Bethany	do																																....
Chillicothe‖	do			T.	.16								T.	.70										.16		T.				.72			1.74
Conception	Missouri			T.									.31										T.							.12			0.43
Edgerton	do			.24									.42										.09			T.				.31			1.06
Grant City	Grand																																....
Kansas City***	Missouri		T.	.20									.35	T.									.10	T.						1.01			1.66
Kidder‖	Grand			.15	.06								.36											.14							.80		1.51
Lexington	Missouri			.20	.10								.35	.12										.18							80		1.75
Liberty	do			.32									.33										.04							1.28	.09		2.06
Maryville	do												.21	.01																	.05		0.27
Oregon	do			.07									.14										T.			T.				.05			0.26
St. Joseph***	do			.14								.05	.26										T.	T						.23			0.68
Tarkio	do												.30										T.										0.30
Trenton	Grand			.02									.33	T.									.15							* *	.99		1.49

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for November, 1923.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	52	63	52	53	50	55	57	49	65	72	73	57	66	63	49	46	61	64	62	70	49	47	52	61	58	45	49	43	36	47	..	55.5
	Minimum	25	28	42	41	34	25	25	34	27	29	40	47	48	53	42	36	27	29	33	33	33	30	30	29	33	34	23	23	28	29	..	33.0
Columbia	Maximum	49	60	48	53	48	52	56	53	62	72	71	68	55	61	56	44	59	63	60	69	60	44	52	60	58	46	37	41	37	51	..	54.8
	Minimum	26	43	44	43	34	28	34	32	32	42	48	49	52	44	38	32	28	40	32	43	37	32	29	29	46	29	23	30	32	32	..	36.1
Fayette	Maximum	44	55	44	48	44	50	54	53	59	70	69	55	54	58	53	40	56	60	58	66	57	..	47	58	50	43	31	39	33	42	..	[a]51.4
	Minimum	18	37	40	39	37	22	32	27	20	27	38	37	46	46	30	26	23	32	28	32	33	..	24	38	40	24	21	25	28	26	..	[a]30.9
Hannibal	Maximum	53	60	52	49	44	54	52	48	57	71	70	66	52	59	52	45	58	62	58	67	56	45	48	52	58	46	34	39	39	49	..	53.2
	Minimum	26	44	44	43	36	29	31	27	24	42	39	44	47	45	45	35	30	39	34	44	36	32	33	30	46	30	25	31	33	34	..	35.9
Jefferson City §§	Maximum	50	60	48	50	52	54	55	52	62	70	71	71	57	58	56	55	56	62	58	70	60	61	52	52	60	49	40	40	39	52	..	55.8
	Minimum	26	28	42	31	33	32	34	38	30	38	42	44	45	51	42	35	29	36	35	43	39	35	37	30	33	33	22	24	27	32	..	34.9
Kirksville	Maximum	53	59	54	52	49	54	54	49	59	78	76	63	59	61	60	48	60	64	59	65	59	43	42	56	54	51	34	40	35	44	..	54.5
	Minimum	22	23	41	38	31	28	32	26	26	40	37	44	45	43	40	35	25	34	30	38	35	24	36	20	26	30	28	32	25	25	..	32.0
Louisiana	Maximum	53	57	60	48	47	53	58	53	55	70	73	73	74	56	56	50	53	53	56	65	68	60	52	52	50	58	48	38	43	48	..	56.0
	Minimum	23	40	45	43	40	28	38	23	22	40	38	35	40	48	44	38	32	38	32	38	44	42	42	38	36	34	24	32	32	33	..	36.1
Macon §§	Maximum	53	61	54	50	49	54	55	53	60	70	73	65	57	60	53	44	50	63	59	67	56	50	45	48	54	57	43	32	35	43	..	53.8
	Minimum	23	27	44	38	31	25	28	28	28	28	39	35	45	50	39	33	25	29	32	34	33	27	25	27	27	31	29	20	21	24	..	30.8
Mexico §§	Maximum	53	61	47	52	48	54	53	47	60	70	72	69	53	59	54	44	57	64	66	67	58	52	51	55	56	47	34	41	38	44	..	54.2
	Minimum	22	23	41	41	37	27	33	26	23	27	42	44	48	49	42	34	28	30	31	35	36	29	30	28	32	30	20	21	30	30	..	32 3
St. Catharine	Maximum	51	55	52	52	47	52	53	52	57	67	67	61	60	59	56	47	59	61	57	64	58	47	49	55	55	51	38	40	36	43	..	53.4
	Minimum	23	40	42	38	40	25	34	29	27	37	37	47	52	49	42	35	26	33	29	37	34	27	35	28	41	30	21	25	25	25	..	33.8
St. Louis(1)	Maximum	50	61	52	47	45	53	56	49	57	70	69	67	62	55	55	49	52	63	58	68	62	49	54	51	65	52	40	43	45	53	..	55.1
	Minimum	36	42	44	45	41	39	42	35	37	43	53	51	47	50	44	41	34	44	41	44	42	37	39	37	43	35	30	32	36	36	..	40.7
Unionville	Maximum	54	57	53	48	48	56	52	50	60	68	70	62	62	63	56	45	62	60	60	65	57	47	44	56	55	51	35	40	36	42	..	53.8
	Minimum	23	36	40	36	27	25	30	22	26	40	34	45	50	46	40	35	26	35	28	36	33	21	33	27	40	28	20	24	20	24	..	31.7
Warrenton	Maximum	50	55	56	49	47	50	50	49	55	64	68	71	61	54	55	53	52	59	58	65	65	53	44	47	56	57	44	43	47	45	..	54.1
	Minimum	29	40	40	43	40	34	36	30	29	39	48	45	49	47	41	35	28	41	34	40	40	32	40	29	40	33	23	27	32	33	..	36.6
Southeast Lowlands.																																	
Caruthersville	Maximum	53	61	55	57	54	53	65	65	65	72	74	76	75	68	58	56	57	70	72	74	70	60	62	67	68	66	63	52	55	59	..	63.4
	Minimum	33	41	47	50	45	43	35	32	35	32	45	42	47	45	47	41	34	37	39	40	50	52	49	35	45	45	35	31	42	39	..	41.1
Doniphan	Maximum	50	54	53	53	51	52	62	58	58	70	71	62	67	62	62	58	55	70	65	68	68	62	59	53	64	56	49	49	45	55	..	58 7
	Minimum	27	34	45	47	43	35	31	27	30	29	37	36	43	40	38	32	28	31	30	29	49	43	44	29	40	42	24	26	36	36	..	35.4
Jackson	Maximum	51	59	55	52	49	50	60	53	58	69	75	76	68	61	63	54	55	66	62	68	61	60	55	54	63	62	45	44	51	56	..	58.5
	Minimum	24	32	45	47	43	40	32	25	24	29	38	36	45	40	46	36	28	34	35	29	49	42	44	43	38	40	26	24	35	36	..	36.2
Poplar Bluff	Maximum	52	56	53	52	51	55	65	60	62	71	77	76	73	62	64	62	50	74	70	72	72	62	63	58	69	63	47	48	42	47	..	60.9
	Minimum	29	37	46	48	45	40	33	31	32	32	44	39	44	47	44	38	33	35	37	32	42	43	45	31	39	42	27	26	37	36	..	37.8
Cairo, Ill.	Maximum	52	58	53	53	49	50	59	52	55	68	72	72	65	63	63	55	52	64	60	67	68	55	54	52	64	55	42	45	53	53	..	57.4
	Minimum	33	40	48	47	45	40	37	37	33	40	48	47	42	45	46	42	35	40	42	42	54	46	38	35	43	40	32	29	39	40	..	40.8
Ozark Plateau.																																	
Arcadia §§	Maximum	49	59	49	47	46	53	61	60	61	71	77	77	67	57	60	51	59	74	64	68	70	49	56	55	63	56	45	41	43	59	..	58.2
	Minimum	23	26	40	43	42	37	34	24	25	27	40	36	38	46	40	34	28	29	33	31	41	39	39	27	29	36	22	20	20	33	..	32.7
Birchtree	Maximum	..	..	..	..	..	..	..	..	75	71	75	72	67	67	64	..	..	..	..	..	..	..	..	..	..	..	50	42	40	56	..	....
	Minimum	30	35	44	45	45	32	38	33	33	36	42	44	50	52	54	45	35	35	35	40	42	42	42	43	44	38	32	22	34	32	..	39.1
Eldon	Maximum	52	60	50	52	50	55	58	69	57	72	74	73	57	62	69	46	58	67	64	70	62	44	54	51	61	53	41	46	37	56	..	57.3
	Minimum	22	39	39	41	31	29	35	27	28	38	48	40	36	36	45	34	29	40	35	35	35	34	32	29	28	33	24	20	31	31	..	33.5
Farmington	Maximum	49	61	51	47	45	48	55	51	55	67	72	72	63	55	55	50	54	66	60	67	65	56	50	52	63	58	45	42	43	55	..	55.8
	Minimum	25	38	44	44	41	41	37	32	27	37	51	42	44	48	43	37	30	37	38	37	42	38	42	30	37	36	26	24	34	36	..	37.3
Hollister	Maximum	70	63	51	54	60	59	65	70	72	74	76	75	65	62	62	58	61	76	74	74	67	64	68	[illegible]	64	64	62	49	48	50	..	64.1
	Minimum	38	28	41	46	41	40	25	26	28	40	44	35	52	50	35	32	25	40	40	30	40	38	42	28	30	34	33	20	29	32	..	35.5
Koshkonong	Maximum	50	53	50	50	49	52	61	51	53	60	73	73	69	63	62	59	57	73	68	71	68	60	60	58	68	58	47	42	40	58	..	58.5
	Minimum	29	30	44	46	44	35	36	32	33	39	47	44	47	50	42	41	31	37	42	40	53	44	46	32	40	39	28	24	35	33	..	38.8
Lebanon §§	Maximum	50	55	47	53	46	50	58	61	69	70	71	72	57	59	59	45	56	67	65	70	63	52	54	61	63	51	41	48	49	55	..	57.2
	Minimum	20	29	39	40	39	25	26	32	33	33	43	41	41	34	34	36	27	27	30	30	38	37	37	27	29	33	20	20	21	29	..	31.7
Mountain Grove §§	Maximum	46	54	48	49	42	50	59	64	66	70	71	70	54	55	55	49	58	69	68	69	65	49	54	54	60	51	45	40	39	54	..	55.9
	Minimum	22	33	41	42	41	29	32	31	35	36	38	43	46	47	37	37	26	26	35	36	41	41	41	29	30	34	22	21	22	31	..	34 2
Neosho	Maximum	51	50	49	56	54	53	62	66	70	72	71	65	63	64	61	59	59	71	68	74	69	63	58	66	65	60	51	45	44	51	..	60.3
	Minimum	31	41	43	43	40	24	32	28	32	37	38	44	54	52	34	33	25	38	29	38	40	47	35	30	41	30	23	27	32	29	..	35.7
Rolla	Maximum	50	59	51	48	48	50	57	58	64	71	73	71	64	54	54	49	56	66	64	65	66	55	53	59	64	59	43	41	38	57	..	57.0
	Minimum	30	41	43	43	41	32	35	32	32	40	47	42	48	48	38	35	26	40	36	45	44	38	42	30	44	36	23	20	33	32	..	37.2
Springfield	Maximum	45	52	47	52	45	49	57	62	66	66	67	63	59	58	56	46	53	65	63	68	63	49	53	61	60	50	40	41	36	52	..	54.8
	Minimum	31	40	43	42	36	29	38	38	40	41	49	51	53	49	40	35	30	42	40	45	46	44	40	36	46	36	26	24	31	31	..	39.3
Southwest Plain.																																	
Amoret	Maximum	48	53	52	54	48	55	58	64	66	70	65	62	60	64	60	52	61	65	63	70	62	60	56	62	62	53	41	38	37	44	..	56 8
	Minimum	29	37	42	37	32	26	34	30	30	42	42	47	53	42	31	34	25	33	30	36	34	33	35	28	37	28	20	20	30	24	..	33.5
Appleton City	Maximum	48	57	53	53	50	55	59	66	68	71	68	60	62	66	61	55	60	67	64	70	63	52	57	63	61	54	43	39	37	46	..	57.6
	Minimum	30	40	44	41	37	30	38	34	33	42	44	51	56	48	40	39	28	36	37	38	38	37	37	32	41	32	24	24	32	26	..	37.0
Clinton	Maximum	51	61	66	55	52	55	62	65	65	75	69	66	66	65	64	60	61	62	63	70	68	55	56	64	62	60	46	43	45	40	..	59.7
	Minimum	29	40	45	42	37	30	36	38	35	57	50	50	56	50	50	38	30	35	35	41	38	35	40	32	45	32	25	25	32	29	..	38.6
Harrisonville §§	Maximum	47	53	48	50	53	55	60	64	64	74	70	57	63	66	62	45	64	69	62	69	60	45	56	63	61	50	41	39	35	43	..	56.3
	Minimum	32	34	42	40	31	28	30	35	32	34	42	49	50	45	39	38	28	29	30	38	37	33	34	32	34	31	25	24	26	28	..	34 4
Lamar §§	Maximum	50	54	47	55	48	54	58	61	70	70	69	64	59	64	62	48	57	70	67	71	62	56	58	63	61	54	41	42	34	49	..	57.4
	Minimum	25	34	36	42	39	28	30	32	32	32	42	43	52	52	36	36	28	29	32	32	35	36	38	32	35	32	26	25	26	30	..	34.2
Lamonte	Maximum	50	58	49	51	50	56	57	63	69	74	75	57	66	67	60	45	64	66	66	73	62	45	53	62	60	50	40	43	37	51	..	57.3
	Minimum	25	39	43	41	33	27	33	37	20	35	45	49	49	44	39	29	24	31	32	39	33	32	32	29	45	30	20	25	31	27	..	34.4
Marshall	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Nevada	Maximum	49	55	52	51	49	53	59	65	69	71	67	62	62	65	61	53	59	67	64	65	52	56	56	63	60	55	42	43	36	45	..	57.0
	Minimum	30	40	42	42	38	28	36	31	31	45	47	51	56	49	37	41	30	39	34	34	39	34	33	31	40	32	23	23	31	28	..	36.5
Warrensburg	Maximum	49	55	51	54	51	56	58	62	69	75	77	61	58	68	60	61	64	65	65	72	66	51	53	63	61	51	45	39	40	47	..	58.2
	Minimum	29	39	43	39	35	27	35	39	29	43	49	49	45	46	38	37	26	44	34	42	35	32	41	33	49	29	21	22	32	27	..	36.3
Warsaw	Maximum	50	60	55	53	50	54	58	64	69	73	71	64	60	64	60	55	60	65	64	71	66	54	54	64	60	57	44	43	41	51	..	58.5
	Minimum	25	40	44	43	38	24	33	34	30	35	44	45	56	53	36	35	26	41	29	35	33	39	41	28	43	38	22	19	32	32	..	35.8
Northwest Plateau.																																	
Chillicothe §§	Maximum	48	57	53	51	48	56	56	53	63	70	72	57	61	65	55	45	63	62	60	67	52	47	48	61	56	43	33	41	35	47	..	54.2
	Minimum	20	26	41	38	29	24	27	31	21	24	36	38	42	46	39	33	25	28	30	32	31	27	28	27	32	30	21	21	25	24	..	29.9
Grant City	Maximum	51	54	57	55	51	60	60	55	60	70	69	66	64	59	52	62	64	65	61	63	59	54	48	60	60	58	49	49	49	52	..	57.9
	Minimum	26	40	44	34	29	25	31	31	27	44	39	49	49	41	34	36	25	34	29	37	32	31	24	30	43	39	27	26	27	19	..	33.4
Kansas City	Maximum	48	51	49	53	48	55	58	56	64	71	67	58	63	62	58	47	63	63	62	66	55	46	53	63	57	47	38	41	37	46	..	54.8
	Minimum	36	42	42	40	33	33	39	42	36	51	50	51	54	48	45	38	34	42	39	46	37	33	39	38	48	34	24	24	31	33	..	39.2
Kidder §§	Maximum	53	55	51	54	49	55	56	54	62	67	73	70	61	62	63	60	63	61	63	65	53	48	49	60	58	55	34	40	38	48	..	56 0
	Minimum	23	27	30	35	29	26	27	33	28	36	38	46	45	40	40	36	23	43	32	32	33	26	27	29	33	29	20	19	23	32	..	31.3
Lexington §§	Maximum	52	50	54	50	54	51	56	58	57	62	73	72	59	64	65	60	52	63	66	61	68	58	45	53	61	58	53	38	41	37	..	56.4
	Minimum	26	40	43	39	33	29	37	39	29	44	47	50	55	45	42	36	28	38	31	35	37	31	38	32	46	31	28	23	32	29	..	36.4
Maryville	Maximum	50	55	56	54	52	61	58	58	61	69	70	58	63	60	55	55	65	61	60	63	50	45	47	62	53	51	36	40	37	48	..	55.1
	Minimum	27	40	44	33	29	25	32	33	30	42	40	49	44	36	41	36	26	35	31	37	34	26	30	22	42	27	21	18	28	24	..	33.1
Oregon	Maximum	48	52	53	51	47	55	54	53	58	64	64	59	62	56	54	46	62	59	57	59	50	46	47	60	55	52	34	38	37	48	..	52.7
	Minimum	30	40	42	35	29	25	34	35	33	45	40	50	45	38	40	35	28	36	33	42	35	28	31	34	46	28	21	18	28	27	..	34.4
St. Joseph	Maximum	50	52	51	55	50	57	57	57	62	69	69	58	59	59	56	46	63	61	60	62	52	47	50	64	55	44	37	40	34	47	..	51.2
	Minimum	31	42	43	36	32	29	36	38	31	49	40	51	47	39	42	34	31	38	33	44	34	30	35	36	40	28	23	20	31	31	..	35.8
Trenton	Maximum	49	55	54	51	48	53	54	49	55	65	64	60	61	60	52	45	59	60	54	63	54	46	45	57	56	52	34	36	35	39	..	52.2
	Minimum	25	40	43	38	30	26	34	33	26	42	44	49	53	48	42	35	30	36	31	36	35	28	35	33	42	34	22	25	28	24	..	34.9

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

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CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVII. COLUMBIA, MO., DECEMBER, 1923. No. 12.

GENERAL SUMMARY.

December, 1923, was not only the fourth consecutive markedly mild December, but the warmest of the four, and the warmest of all other Decembers since 1889. Unless we include the last two days of the month there were no characteristic winter periods, no sudden drop in temperature, no high winds, almost no sleet or snow. The abrupt change, however, from spring-like weather to winter on the 30th, and 31st, was very marked from the physiological side.

From the economic side the prevailing weather was favorable, and yet unfavorable. Favorable from the viewpoint of the outdoor worker, the open winter grazing, minimum heating of homes, and general good health. On the other side, the business channels of fuel, heavy clothing, and transit feeds, lagged somewhat behind the normal.

Winter wheat made good root growth and kept a healthy color. The early sown was stooling fairly well. Owing to rather soft ground there still was considerable corn in the field.

TEMPERATURE.

The monthly mean temperature for the State, 69 stations reporting, was 41.0°, and 7.1° higher than the 36-year average. It is the fourth consecutive December with marked plus departures, and the warmest of all Decembers since 1889. Except an abrupt change to severe winter weather on the 30th, and 31st, mild conditions prevailed almost continuously. In all, about 26 days were warmer than normal. On the 8th, 9th, and 27th afternoon temperatures ranged into the 70's. The 31st was the coldest day, with a general cold wave, the 24-hour temperature fall ranging from 30° to 45° and to a minimum zero or 10° to 16° above zero.

PRECIPITATION.

The average precipitation for the State, as determined from the records of 101 stations, was 3.06 inches. The departure from the 56 years' average was plus 1.03 inches, the greatest excess since 1918 for the State as a whole. By sections, the northwestern plateau received less than normal precipitation, the southwestern plain a little more than normal, while most of the Ozark Plateau and southeastern lowlands were much wetter than usual. The more or less better defined periods of precipitation embraced the 3-4th, 12-13th, 19th to 22d, and the 31st, the last being fine snow. The greatest monthly amount was 6.33 inches, at Parma, New Madrid County, and the least was 0.25 inch, at Conception, Nodaway County. The heaviest fall in any 24 consecutive hours was 2.23 inches, at Rolla on the 12th. Sleet and snow were of little consequence.

WIND.

The prevailing winds were from the southwest. The average monthly movement, 8 stations equipped with anemometers reporting, was 6,134 miles. The average hourly velocity was 9.7 miles. Brisk to strong winds occurred on two or three dates.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well placed stations reporting, was 137. This is about 47 per cent of the possible and approximates the normal for December. Last December was about 13 per cent brighter than this month.

MISCELLANEOUS PHENOMENA.

Fogs, dense.—On the 3d, 9th, 17th, 20th, 21st, 22d, 27th, and 30th.

Halos, solar.—1st, 2d, 6th, 7th, 11th, 13th, 14th, 15th, 18th, and 20th.

Halos, lunar.—1st, 13th, 14th, 15th, 17th, 18th, and 28th.

Sleet.—Light on the 13th, 30th, and 31st.

Thunderstorms.—Thunder heard at a few stations on the 9th and 31st.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.07	84	71	141	48	6,070	8.2	31	w.	31
Hannibal	30.07	77	..	...	..	6,298	8.5	29	sw.	31
Kansas City	30.09	77	65	147	50	8,399	11.3	35	n.	12
St. Joseph	30.07	80	65	141	49	5,951	8.0	31	nw.	31
St. Louis	30.07	80	69	116	40	9,822	13.2	49	w.	31
Springfield	30.08	88	75	134	45	7,988	10.7	34	sw.	27
Cairo, Ill	30.09	84	72	...	..	7,230	9.7	34	nw.	13
Keokuk, Iowa	30.08	78	70	143	49	5,711	7.7	31	nw.	31

COMPARATIVE DATA FOR DECEMBER.

Year.	Temperature.				Precipitation.					Number of days.		
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	35.9	+1.7	70	0	2.29	+0 24	.....	....	6	....	....	....
1889	46.8	+12.6	78	2	0.96	−1.09	.....	....	5	....	....	....
1890	36.0	+1.8	76	− 3	1.03	−1.02	.....	....	3	....	....	....
1891	39.8	+5.6	72	− 1	1.90	−0.15	.....	....	6	....	....	....
1892	29.4	−4.8	75	−22	2.38	+0.33	3.08	4.8	6	8	7	16
1893	35.2	+1.0	76	7	0.95	−1.10	2.95	2.7	5	11	11	9
1894	36.7	+2.5	75	− 7	2.13	+0.08	3.01	1.3	5	14	8	9
1895	34.3	+0.1	69	− 8	6.13	+4.08	6.95	3.4	8	9	8	14
1896	38.6	+4.4	79	− 5	0.93	−1.12	2.25	T.	3	13	8	10
1897	29.3	−4.9	74	−14	2.80	+0.75	2.70	6.3	7	8	8	15
1898	28.7	−5.5	74	−20	1.69	−0.36	2.50	5.1	5	17	6	8
1899	30.4	−3.8	72	−13	2.11	+0.06	1.70	6.6	9	12	9	10
1900	35.6	+1.4	68	− 3	0.69	−1.36	1.08	0.6	4	14	8	9
1901	28.5	−5.7	71	−29	2.93	+0.88	4.43	6.9	8	11	7	13
1902	30.7	−3.5	68	− 7	2.91	+0.06	2.50	3.1	8	10	4	17
1903	30.2	−4.0	65	11	1.51	−0.54	1.80	2.3	5	16	7	8
1904	32.9	−1.3	75	−10	1.50	−0.55	1.55	6.0	5	16	7	8
1905	33.3	−0.9	66	− 2	1.45	−0.60	2.24	1.7	4	18	6	7
1906	36.1	+1.9	73	0	2.27	+0.22	2.85	0.6	8	8	6	17
1907	37.7	+3.5	76	3	1.84	−0.21	1.78	3.7	7	11	7	13
1908	38.4	+4.2	80	− 4	0.85	−1.20	1.35	T.	3	16	7	8
1909	24.9	−9.3	76	−17	2.86	+0.81	2.50	7.7	8	12	6	13
1910	31.2	−3.0	67	− 5	1.25	−0.80	2.85	2.4	4	16	5	10
1911	36.7	+2.5	74	−11	2.80	+0.70	2.00	5.1	7	13	6	12
1912	36.5	+2.3	72	2	0.59	−1.46	0.91	0.6	3	19	5	7
1913	38.3	+4.9	74	− 3	2.27	+0.19	2.25	6.6	7	9	4	18
1914	26.8	−7.1	68	−18	2.48	+0.31	2.30	6.6	9	7	5	19
1915	34.7	+1.3	84	−13	2.77	+0.55	3.20	7.8	6	12	6	13
1916	31.3	−2.3	82	−29	1.85	−0.29	3.40	4.4	6	15	6	10
1917	25.5	−8.7	82	−23	0.74	−1.40	2.51	7.3	5	11	7	13
1918	40.0	+6.6	83	−12	3.21	+1.14	5.50	7.8	7	13	6	12
1919	28.5	−4.5	74	−22	0.69	−1.50	2.65	0.7	3	12	4	15
1920	35.6	+2.6	77	−10	1.93	−0.22	2.30	2.3	5	13	7	11
1921	36.9	+3.8	74	− 8	1.86	−0.23	1.91	1.9	6	13	7	11
1922	36.3	+2.9	75	− 6	2.11	−0.14	3.04	0.2	6	15	6	10
1923	41.0	+7.1	82	− 4	3.06	+1.03	2.23	0.8	8	11	6	14
....	.....	.....	....	....	.....	.....	.....	....	....	....	....	....
....	.....	.....	....	....	.....	.....	.....	....	....	....	....	....

Climatological Data for December, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	43	38.2	+ 7.6	62	7	13	31	35	2.44	+0.82	1.09	1.0	8	13	0	18	nw.	O. K. Benecke
Clifton Hill	Randolph	731	24	37.3	+ 6.2	58	27	6	31	28	1.79	+0.39	1.15	0.2	6	8	9	14	......	Dr. A. J. Bradsher
Columbia	Boone	748	33	40.2	+ 7.3	68	7	3	31	32	2.53	+0.52	1.44	0.3	9	8	4	19	s.	U. S. Weather Bureau
Downing	Schuyler	878	13	37.2	......	57	7†	1	31	33	1.98	+0.52	0.75	1.5	8	5	12	14	w.	E. E. St. Clair
Fayette	Howard	661	43	34.4	+ 3.2	59	7	5	31	36	2.51	+0.88	1.26	1.0	6	..	..	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	35	40.1	+ 6.4	62	7	9	31	34	3.26	+1.34	1.23	1.5	11	11	7	13	sw.	Westminster College
Gorin	Scotland	700	36	....	......	..	..	..	..	..	1.72	+0.03	0.80	0.8	7	6	8	17	sw.	I. S. McCollom
Hannibal	Marion	534	40	40.2	+ 8.7	61	7	2	31	29	2.31	+0.66	1.28	0.6	9	7	6	18	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	40	40.6	+ 7.8	68	7	16	31	40	2.73	+0.88	1.35	2.0	8	15	1	15	s.	Miss Emma Swift
Kirksville	Adair	969	40	37.2	+ 7.6	58	18	0	31	31	1.98	+0.34	0.80	0	4	6	8	17	sw	Prof. J. S. Stokes
Louisiana	Pike	469	42	42.4	+10.9	62	9†	18	31	34	3.87	+2.18	1.65	2.5	6	17	2	12	n.	J. T. Farrell
Macon	Macon	875	30	36.6	+ 6.2	60	7	13	31	35	2.08	+0.68	0.75	T.	8	12	9	10	se.	W. C. Brown
Mexico	Audrain	800	45	38.6	+ 6.8	69	27	19	31	37	2.55	+0.55	1.30	0.5	9	14	0	17	w.	Mrs. Abbie Snoddy
Palmyra	Marion	652	24	38.4	+ 8.8	58	1†	19	31	35	1.98	+0.31	1.12	0	5	10	5	16	sw.	W. B. Markell
St. Catharine	Linn	800	13	38.0	+ 8.3	56	7	5	31	29	1.98	+0.70	0.82	1.0	8	11	10	10	sw.	L. D. Baker
St. Charles	St. Charles	456	45	44.4	+ 9.5	70	27	12	31	38	4.11	+2.24	1.50	4 0	7	6	8	17	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	83	44.4	+ 9.6	70	27	11	31	27	3.30	+1.07	1.45	0.7	10	9	4	18	s.	U. S. Weather Bureau
St. Louis (2)	....do.	578	9	43.4	+ 9.1	69	27	9	31	29	3.70	+1.60	1.95	1.1	11	9	4	18	se.	St. Louis University
Shelbina	Shelby	779	30	....	.....	..	..	..	..	..	....	......	....	....	..	..	..	..	..	W. M. Nolin
Steffenville	Lewis	650	30	39.6	+ 9.0	59	7	5	31	33	1.67	+0.11	0.65	2.0	9	12	9	10	sw.	Frank Hall
Unionville	Putnam	1,062	30	36.5	+ 9.1	58	16†	2	31	28	1.80	+0.16	0.70	2.0	6	7	12	12	n.	Geo. W. Davis
Warrenton	Warren	816	41	41.7	+ 9.7	67	2	10	31	33	3.57	+1.44	1.12	4.0	8	11	8	12	nw.	Prof. A. W. Ebeling
Keokuk, Iowa.	Lee, Ia.	574	50	39.2	+ 9.6	60	7	0	31	30	1.79	−0.08	0.93	1.1	8	7	8	16	sw.	U. S. Weather Bureau
Section means and	extremes	.....	..	39.5	+ 8.1	70	27	0	31	40	2.53	+0.79	1.95	1.3	8	10	6	15	sw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	32	49.8	+ 9.8	71	8	26	15†	41	6.17	+1.73	1.05	T.	12	9	4	18	e.	H. E. Averill
Doniphan	Ripley	344	19	46.4	+ 9.0	73	8	18	14†	46	4.33	+1.00	1.02	0	13	7	8	16	n.	W. W. Martin
Jackson	Cape Girardeau	428	33	46.1	+ 9.5	71	8†	17	31	49	5.47	+2.27	1.40	0.2	15	7	8	16	s	John G. Putz
Marble Hill	Bollinger	470	29	46.8	+10.6	72	8†	17	14	45	5.33	+2.00	1.29	T.	13	10	7	14	s.	R. A. DeWitt
Parma	New Madrid	281	2	....	......	..	..	..	..	..	6.33	......	2.15	0	12	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	13	....	......	..	..	..	..	..	3.66	+0.64	1.12	0	8	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	329	19	47.8	+11.0	75	8	21	14†	44	4.67	+0.49	1.36	T.	15	13	5	13	ne.	Rev. J. A. Gallaher
Vanduser	Scott	304	2	....	......	..	..	..	..	..	5.91	+1.90	1.98	0	10	..	..	..	.....	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	51	47.8	+10.0	69	8	16	31	39	4.92	+1.59	2.30	0.4	15	6	3	22	s.	U. S. Weather Bureau
Section means and	extremes	....	..	47.4	+ 9.9	75	8	16	31	49	5.20	+1.45	2.15	0.1	13	9	6	16	s.	
Ozark Plateau.																				
Arcadia	Iron	926	45	42.8^{d}	+ 7.5	74	27	..	..	40	5.40	+2.42	2.20	0.9	13	11	3	17	s.	Arcadia College
Birchtree	Shannon	1,000	29	45.5	+ 9.7	75	8†	13	31	51	5.14	+2.57	1.33	T.	10	16	2	13	s.	V. H. Kirkendall
Bolivar	Polk	1,071	36	41.6^{a}	+ 5.8	70	6†	10	31	46	3.14	+0.74	1.28	0	8	11	9	11	s.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	21	....	......	..	..	..	..	..	4.71	+2.59	1.66	0	11	17^{a}	2^{a}	11^{a}	sw.	H. E. Dean
Eldon	Miller	934	24	41.8	+ 7.5	69	7	6	31	39	2.21	+0.05	1.10	T.	5	7	10	14	sw.	E. H. Shepherd
Farmington	St. Francois	918	26	44.6	+ 7.6	73	27	14	31	46	5.49	+2.78	2.18	2.5	11	11	7	13	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	41.6	+ 6.4	69	27	9	31	37	4.51	+2.50	1.89	3.0	10	10	5	16	nw.	A. C. Leach
Goodland	Iron	1,000	30	42.8	+ 8.4	74	28	13	14	49	5.03	+2.55	1.20	2.0	9	11	8	12	s.	F. M Adams
Greenville.	Wayne	381	1	46.8	..... .	75	8†	16	14	45	3.65	......	0.91	0	16	11	6	14	s.	J. J. Amen.
Hollister	Taney	735	20	46.4	+ 6.7	82	9	10	31	50	5.45	+3.18	1.10	0	8	15	4	12	sw.	Mrs. W. P. Chapmann
Houston	Texas	1,280	31	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	Walter T. Beard
Koshkonong	Oregon	958	22	48.2	+10.6	75	8†	17	31	49	4.25	+1.09	0.81	0	13	9	4	18	se.	R. M. Hitt
Lebanon	Laclede	1,265	36	41.0	+ 6.0	70	27	12	31	44	2.92	+0.32	1.21	T.	7	11	8	12	s.	Leonard E. Dickerson
Lockwood	Dade	1,078	27	43.4	+ 7.9	66	27	8	31	33	3.38	+1.44	1.65	0	6	14	5	12	nw.	C. S. Crow
Mountain Grove	Wright	1,463	26	42.2	+ 7.9	71	8	11	31	34	4.29	+2.06	1.59	1.0	13	10	9	12	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	40	43.9	+ 7.2	73	27	9	31	38	3.52	+0.98	1.91	T.	6	13	5	13	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	39	44.2	+10.6	70	27	12	31	38	4.27	+2.20	2.23	2 0	9	15	6	10	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	19	45.2	+ 8.6	70	8†	8	31	31	3.41	+0.84	0.97	T.	9	15	6	10	sw.	Floyd E. Fawver
Seymour	Webster	1,612	17	44.7	+10.3	72	27	9	31	41	3.28	+1.23	0.68	1.0	11	12	8	11	nw.	Ira H. Hailey
Springfield	Greene	1,350	45	42.8	+ 7.3	69	27	7	31	36	2.92	+0.25	1.55	T.	9	11	8	12	nw.	U. S. Weather Bureau
Section means and	extremes	. ...	..	43.9	+ 8.0	82	9	6	31	51	4.05	+1.66	2.23	0.6	10	12	6	13	s.	
Southwest Plain.																				
Amoret	Bates	831	17	43.0^{c}	+10.5	61	6†	3	31	36	2.76	+1.17	1.56	T	6	11^{b}	2^{b}	16^{b}	sw.	Darby Fruit Farm
Appleton City	St. Clair	853	31	41.2	+ 6.9	63	7†	8	31	32	2.16	+0.52	1.08	T.	6	11	11	9	sw	W. G. Bigelow
Clinton	Henry	765	36	42.4^{a}	+ 8.0	67	7	10	31	35	2.65	+0.92	1.24	T.	6	11	6	14	sw.	A. E. Derwent, M. D
Harrisonville	Cass	904	48	38.4	+ 7.2	61	7	6	31	33	1.19	−0.59	0.31	T.	7	5	4	22	nw.	John H. Patterson
Lamar	Barton	980	42	40.2	+ 5.0	65	8	11	31	36	3.32	+1.37	1.00	0	8	14	2	15	sw.	Jesse A. Mann
Lamonte	Pettis	867	36	39.0	+ 4.8	63	7	4	31	35	2.45	+0.79	1.22	T.	6	13	12	6	se.	J. E. Wheeler
Marshall	Saline	779	34	39.7^{a}	+ 8.1	62	7	7	31	32	1.67	+0.01	1.12	T.	5	11^{a}	3^{a}	16^{a}	nw.	Dr. W. H. Black
Nevada	Vernon	862	31	41.2	+ 7.3	64	7†	8	31	32	2.94	+1.08	1.73	0	5	11	5	15	s.	George A. Kaupp
Warrensburg	Johnson	878	43	40.6	+ 7.2	65	26	7	31	35	2.35	+0.55	1.20	T.	5	7	8	16	n.	E. A. Markey.
Warsaw	Benton	687	28	42.4	+ 7.6	67	7	9	31	38	2.86	+0.54	1.05	T.	6	8	14	9	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	40.8	+ 7.3	67	7	3	31	38	2.44	+0.64	1.73	T.	6	10	7	14	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	34	38.6	+ 6.2	58	17	7	31	26	1.63	+0.12	1.00	0.3	5	13	2	16	nw.	F. G. Ashbaugh
Bethany	Harrison	916	32	....	......	..	..	..	..	..	....	......	....	1.8	..	..	..	..	......	Owen Ross
Chillicothe	Livingston	779	17	35.8	+ 0.2	59	7†	8	31	33	0.72	−0.93	0.51	0.8	3	15	6	10	nw.	Wm. J. Olenhouse
Conception	Nodaway	980	39	36.2	+ 6.9	61	17	− 4	31	31	0.25	−0.74	0.12	2.0	3	12	8	11	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	11	36.7^{c}	......	59	7†	1	31	39	0.59	−0.74	0.37	0.5	5	18	1	12	s.	Fred L. Stiff
Grant City	Worth	1,134	31	37.0	+ 9.3	61	17	− 1	31	36	0.26	−0.90	0.20	1.0	2	12	10	9	n.	B. F. Locke
Kansas City	Jackson	963	50	39.0	+ 7.5	60	17	0	31	30	1.12	−0.24	0.70	0.6	8	11	6	14	sw	U. S. Weather Bureau
Kidder	Caldwell	1,020	36	35.9	+ 6.2	58	23	5	31	35	0.57	−0.73	0.21	1.0	4	13	5	13	sw.	Linn Terry
Lexington	Lafayette	688	41	39.6	+ 8.1	61	8	7	31	42	2.56	+0.84	1.15	0.2	7	13	6	12	s.	Edwin G. Loomis
Liberty	Clay	859	33	37.5	+ 5.7	62	7	4	31	39	0.97	−0.41	0.71	0	4	11	11	9	nw.	James H. Harris
Maryville	Nodaway	1,169	29	36.3	+10.0	62	17	− 2	31	34	0.36	−0.69	0.20	2.0	3	13	6	12	n.	J. R. Brink
Oregon	Holt	1,048	67	36.6	+ 8.1	59	17	− 1	31	34	0.36	−1.08	0.11	1.5	4	12	5	14	nw.	Tom Curry
St. Joseph	Buchanan	967	50	37.2	+ 7.2	60	16	− 2	31	30	0.35	−0.70	0.16	1.2	6	12	6	13	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	30	35.0	+ 9.1	60	17	− 1	31	32	0.57	−0.35	0.20	3.5	6	16	5	10	sw.	Albert Volker
Trenton	Grundy	822	28	37.0	+ 7.4	57	18	1	31	27	1.25	−0.10	0.77	1.0	5	16	6	9	s.	W. H. Estes
Section means and	extremes	.....	..	37.0	+ 7.1	62	7†	− 4	31	42	0.83	−0.48	1.15	1.2	5	13	6	12	nw.	
State means and	extremes	.....	..	41.0	+ 7.1	82	9	− 4	31	51	3.06	+1.03	2.23	0.8	8	11	6	14	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for December, 1923.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri			.15	.52								.20	1.16						.05	.28		.08	.20				.02				T.	2.66
Brunswick‖	Grand			.05	.21								.07	1.09							.56			.38		.03						.05	2.44
Clifton Hill	Chariton			.24	.07								1.15										.29			T.			.02			.02	1.79
Columbia***	Missouri	T.	.01	.44	.30								1.43	.01						.14		T.	.18			T.		T.			.01	.01	2.53
Downing	Mississippi												.75	.27						.12	.08		.50			.16					.05	.05	1.98
Fayette‖	Missouri			.50									1.26							.32	.25		.12								.06		2.51
Fulton	do			.17	.81	.11							1.23	.45						.27	.02	.01	.17					.01			.01	T.	3.26
Gorin	Mississippi			.07						.09			.80							.16			.41			.07						.12	1.72
Hannibal***	do			.32	.30					T.			1.25	.03						.19			.15	T.	.01	.04		T.			T.	.02	2.31
Hermann‖	Missouri			.02	.35	.24					.11		.03	1.98						.09	.30		.09	.10									3.31
Jefferson City‖	do				.58	.05							.25	1.35						.10	.15		.15	.10									2.73
Kirksville	Mississippi			.80								.59								.20			.39										1.98
Louisiana	do			.10	1.40	.15			T.				.45	1.65									.12		T.						T.	T.	3.87
Macon‖	Chariton			.06	.37								.10	.75							.31	.05		.36		T.						.08	2.08
Mexico‖	Mississippi			.03	.75	.05								1.30						.05	.16	.02		.18	T.							.01	2.55
Milan‖	Grand										.15		.57								.50							.25				.20	1.67
Pacific‖	Meramec	T.		T.	.42	.40	.23				.21		.03	1.93						.06	.41	.02	.12	.08									3.91
Palmyra‖	Mississippi				.50								1.12								.14			.18		.04							1.98
St. Catharine	Grand			.09									.82	.12						.20	.16	T.	.51								.03	.05	1.98
St. Charles	Missouri			T.		1.50				T.	.22		.81	1.14						.21	.21	.02	T.										4.11
St. Louis (1)***	Mississippi			.03	.94	.15			T.	.01	.17		1.18	.27						.27	.12	T.	.16	T.								T.	3.30
St. Louis (2)	do			.07	.77	.15				.01	.14		1.78	.17						.36	.05	.01	.19			T.		T.				T.	3.70
Shelbina	do																																....
Steffenville	do			.25	.02								.65	.05						.15		.05		.20							.23	.07	1.67
Union‖	Meramec		.01		.50	.62	.06			.08	.26		.05	2.29						.04	.18	.04	.09	.06									4.28
Unionville	Chariton			T.									.70	.15						.35	.05		T.			.25		T.			T.	.30	1.80
Valley Park‖	Meramec				.45	.53	.24			T.	.19	T.	T.	1.70						.05	.40	T.	.08	.24	T.			T.					3.88
Warrenton	Mississippi			.04	.55	.32							1.12	1.00						.35	.03		.16	T.								T.	3.57
Keokuk, Ia.***	do	T.		.16						T.			.93							.19		T.	.32	T.	.15	.01		T.			.01	.02	1.79
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi			.11	.13	.35	.03		.04	1.00	.13	.05	.02	1.48	.04					T.	.42	.43	.62	.47			.02	.02			T.	.04	5.40
Caruthersville	do			.22	.30	.10	T.		T.	.76	.86		T.	1.05						.25	.65	.68	.35	.10			T.	T.			T.	.85	6.17
Doniphan	Black			.15	.35	.07				.50	.46		.08	1.02						.25	.68	.17	.30	.15								.15	4.33
Jackson	Mississippi			.14	.51	.20	.02			1.01	.60		.05	1.40						.13	.43	.30	.47				.01	.04				.16	5.47
Leeper‖	Black				.44	.04				.40	.20	.05		.75						.04	.45	.40	.20										2.97
Marble Hill	Mississippi			.20	.55	.28				.75	.15		.12	1.29	.35					.20	.52	.30	.42	.20									5.33
New Madrid‖	do			.06	.05	.35	.10			1.95	.20	.43		2.23	.06					.01	.51	.26	.51	.31			.02	.11	.01			.10	7.27
Parma	St. Francis				.40	.12				1.50	.21		.05	2.15						.21	.35	.80	.23					.15				.16	6.33
Patton (near)	Mississippi				.75	.32				1.12										.10	.48	.18	.55	.16									3.66
Poplar Bluff	Black			.10	.31	.11				.71	.26	.03	.06	1.36						.15	.49	.19	.37	.15				.01				.37	4.67
Vanduser	Mississippi			.05	.83	.15				.50	.18			1.98							.71	.72	.49									.30	5.91
Cairo, Ill.***	do		T.	.02	.24	.04			.05	.75	.01		.75	1.56						.32	.17	.59	.26	T.			T.	.02			.01	.13	4.92
Ozark Plateau.																																	
Annapolis‖	St. Francis			.12	.56				1.36				1.00							.57		.77	.11										4.49
Arcadia‖	do			.09	.18	.31	.04			2.20	.20	.29	.02	.96						T.	.44	.12	.37	.18			T.						5.40
Birchtree	Black				.55	.18				1.33	.47		.42	.60						.23	.52		.71	.13									5.14
Bolivar‖	Osage			.46							.18		.67	1.28						.09	.26		.15					.05					3.14
Dean	Neosho	.11	.02	.10	.35						.92	.04	1.66	.53						.63		.21	.14										4.71
De Soto‖	Mississippi				.65	.35				.11	.39		1.05								.38		.32										3.25
Eldon	Missouri			.25		.05							1.10	.31						.50													2.21
Farmington	St. Francis			.16	.46	.33				2.18	.26		.34	.78						.16	.48	.14	.20										5.49
Fredericktown‖	do					.35	.46		.50	1.70	.15	.25						.03	.06	.09	.04	.08										.05	3.76
Galena‖	White			.02	.30						.73	.06	.30	1.20						.45	.23	.38	.45										4.12
Gano	Meramec			T.	.63	.31					.71		.69	1.20						.12	.48	.06	.20	.11									4.51
Goodland	Black				.58		.44			1.20	.55		.35	.70						.20	.59		.42										5.03
Greenville	St. Francis			.07	.40	.26	.01			.30	.17	.22	.07	.91						.20	.24	.10	.32	.12			.01					.25	3.65
Hollister	White			.30						.30	1.10		1.10	1.05						.30		.30	1.00										5.45
Houston	Gasconade																																....
Jerome‖	do				.46	.16					.83		.15	1.75						.15	.16		.07	.16									3.89
Koshkonong	Black			.17	.38	.15					.57	.01	.44	.49						.19	.81	.18	.60	.11								.15	4.25
Lebanon‖	Osage			T.	.40	T.				T.	.75	T.		1.21						.05	.30		.06	.15									2.92
Lockwood	do				.43						.32	1.65	.31							.38			.29										3.38
Mineral Point‖	Meramec				.04	.03				.04	.06		.04																				....
Mountain Grove‖	White		T.	.05	.28	.21	T.			.14	.73	.09	.14	1.59						.14	.19	.11	.48	.14									4.29
Neosho	Neosho		T.	T.							.33	T.	1.91	.47					T.	.52		.03	.26									T.	3.52
Rolla	Meramec		T.	.47	.40	T.				.61		T.	2.23						.12	.22	.04	.09	.09										4.27
Seligman	Neosho		T	.11	.20						.97	.03	.77	.46						.37		.04	.46										3.41
Seymour	White			.04	.31	.01				T.	.59	.04	.68	.57						.44		.18	.37	.05								T.	3.28
Springfield***	do		T.	.12	.21	T.				.05	.48	T.	1.50	.06					T.	.29		.04	.17								T.	T.	2.92
Steelville‖	Meramec			.06	.56	.40					.61			2.18							.37	.06	.09	.17									4.50
Tuscumbia‖	Osage			T.	.59	.10					.03		.20	1.70						.06	.16		.06	.18								T.	3.08
Willow Springs‖	Black			T.	.41	.04				1.07	.88	.14	.10	1.67						.12	.50	.09	.55	.04									5.61
Southwest Plain.																																	
Amoret	Osage		T.	.14	.04								1.56							.32	.44		.26								T	T.	2.76
Appleton City	do			.05	.15						T.	T.	1.08	.12					T.	.51	T		.25	T.							T.	T.	2.16
Clinton	do			.15	.20								1.24	.16						.55			.35									T.	2.65
Harrisonville‖	do			.04	.20								.31							.20	.12		.10	.22								T.	1.19
Joplin*	Neosho			.04	.24					.13	.01	.06	1.92							.69		.09	.08										3.26
Lamar‖	do			.05	.37								1.00	.96						.42	.22		.22	.08									3.32
Lamonte	Missouri			.18	.22								1.22							.40			.42					.01			T.	T.	2.45
Marshall	do												1.12	.06					.14	T.			.31			T.		.04			T	T.	1.67
Nevada	Osage			.08								T.	1.73	.18						.60			.35										2.94
Osceola‖	do			.07	.36								.72	.83						.18	.22		.28										2.66
Warrensburg	Missouri	T.		.15	.10								1.20							.60			.30								T	T.	2.35
Warsaw	Osage			.06	.50								1.05	.50						.32			.43								T.	T.	2.86
Waverly‖	Missouri			.10	.17								.29	1.09						.12	.44		.14	.27								.07	2.69
Northwest Plateau.																																	
Albany‖	Grand													.15																		.40	0.55
Avalon	do											.25	.75						.10	.50												.03	1.63
Bethany	do																														T.	.12	....
Chillicothe‖	do				T.								T.							T.	.51			.10		T.						.11	0.72
Conception	Missouri											T.	.10							.03			T.			T.					T.	.12	0.25
Edgerton	do			.08									.37							.10		.01	T.								T.	.03	0.59
Grant City	Grand												T.							T.	T.		T.			.20					T.	.06	0.26
Kansas City***	Missouri	T.		.17								.05	.65						.03	.16			T.		.01						.02	.03	1.12
Kidder‖	Grand												.10	.21						.16												.10	0.57
Lexington	Missouri			.08	.17									1.15						.26	.27								.60			.03	2.56
Liberty	do												.71							.23	.01					.02					T.		0.97
Maryville	do											T	.06													.10					.20		0.36
Oregon	do									T.			T.							T.	.08		.11		T.			.06			T.	.11	0.36
St. Joseph***	do	T.		.05								.04	.12							.04			.01		T.						T	.09	0.35
Tarkio	do											.01	.16							.10						.20					.03	.07	0.57
Trenton	Grand									T.		.10	.77							.26			T.		T.						.08	.04	1.25

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for December, 1923.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	50	41	44	41	41	44	62	56	50	45	47	47	36	43	46	58	60	57	50	57	51	43	45	48	50	51	56	50	57	38	15	47.7
	Minimum	29	31	30	33	31	24	27	41	38	37	24	23	25	19	21	25	29	27	33	35	36	38	28	25	26	30	38	24	23	30	13	28.8
Columbia	Maximum	60	42	48	41	39	43	68	59	49	44	45	49	37	40	43	54	58	55	53	57	56	44	44	45	47	54	61	50	57	45	23	48.7
	Minimum	39	35	39	34	29	25	36	48	43	31	27	37	23	20	29	25	30	29	45	43	41	39	28	24	32	32	32	27	31	23	3	31.6
Fayette	Maximum	52	36	40	33	38	39	59	53	42	39	40	45	32	36	48	54	57	50	45	55	46	38	40	44	45	48	53	44	57	35	16	43.8
	Minimum	32	28	33	30	25	21	27	32	39	25	22	30	17	15	21	18	22	20	32	32	35	32	25	18	27	26	25	22	23	16	5	25.0
Hannibal	Maximum	59	42	47	39	36	45	61	54	49	45	43	50	36	39	44	56	59	56	54	56	57	45	39	45	46	48	60	47	54	42	31	47.9
	Minimum	35	30	37	34	28	28	32	46	42	32	27	36	24	23	33	30	30	32	43	44	45	39	33	28	34	32	34	28	33	31	2	32.4
Jefferson City §§	Maximum	62	45	50	38	37	50	68	63	52	45	45	50	34	42	40	50	56	55	54	56	68	43	42	46	54	57	65	50	60	43	16	49.5
	Minimum	35	36	36	37	30	25	28	47	44	38	27	28	27	19	24	24	28	29	34	43	45	40	31	24	30	30	40	28	28	34	16	31.8
Kirksville	Maximum	41	41	42	40	39	44	55	55	47	46	43	44	40	40	41	56	52	58	48	51	48	43	42	45	45	45	49	48	51	44	31	45.6
	Minimum	30	28	29	28	29	24	30	38	32	33	23	32	21	20	31	29	31	30	38	31	40	37	36	24	29	29	29	22	28	28	0	28.7
Louisiana	Maximum	55	54	60	55	48	45	54	60	62	60	45	50	50	38	40	58	55	56	60	56	55	56	47	48	46	44	62	58	52	55	46	52.6
	Minimum	30	22	33	34	33	27	28	48	50	40	23	42	28	20	30	24	28	30	28	42	48	42	25	38	34	27	42	26	28	33	18	32.3
Macon §§	Maximum	54	40	43	35	39	42	60	55	50	44	44	45	43	40	40	50	57	54	50	54	50	43	42	47	45	51	55	46	55	38	14	46.0
	Minimum	25	25	28	30	30	22	24	31	33	34	22	22	22	21	21	24	26	32	32	30	35	38	31	24	25	28	37	23	24	31	13	27.2
Mexico §§	Maximum	37	45	44	35	38	50	68	60	60	44	45	48	34	37	41	33	35	57	57	59	59	43	42	45	47	54	69	48	55	42	20	46.8
	Minimum	31	30	33	35	30	25	31	46	39	35	20	33	25	20	20	27	30	29	33	33	44	32	32	24	27	30	40	28	30	36	19	30.5
St. Catharine	Maximum	49	43	43	42	39	45	56	54	51	45	42	45	43	38	46	54	51	54	49	52	47	49	43	44	45	51	49	46	53	49	31	46.7
	Minimum	33	25	31	31	30	24	29	41	34	37	23	34	22	18	31	25	28	28	39	33	42	37	28	23	29	28	40	24	26	31	5	29.3
St. Louis(1)	Maximum	61	53	53	48	36	47	61	64	51	48	46	54	46	39	40	54	57	58	54	56	60	55	42	49	48	50	70	49	56	64	38	51.8
	Minimum	38	42	42	34	32	29	37	50	47	37	31	39	29	26	28	33	39	42	46	48	54	42	39	34	36	37	39	32	37	38	11	37.0
Unionville	Maximum	44	40	44	40	38	45	55	46	47	44	46	44	41	40	48	58	58	56	48	53	48	42	43	46	44	50	45	46	53	44	30	46.0
	Minimum	28	20	25	26	22	25	33	32	30	30	18	34	20	20	30	30	30	32	35	32	35	35	30	22	28	28	34	20	25	26	2	27.0
Warrenton	Maximum	57	67	56	52	39	48	59	59	58	48	42	51	51	35	38	52	54	54	54	54	54	52	43	40	43	52	52	43	50	49	43	50.0
	Minimum	35	36	36	33	30	23	33	50	44	38	26	34	26	20	26	27	34	31	44	45	49	42	34	27	32	29	43	27	30	40	10	33.4
Southeast Lowlands.																																	
Caruthersville	Maximum	60	58	58	57	44	52	63	71	70	66	48	64	60	42	45	55	60	62	60	63	62	63	62	54	56	56	70	66	77	66	63	59.8
	Minimum	43	38	49	42	37	30	30	36	56	45	40	42	34	28	26	31	32	36	50	53	57	55	42	31	36	36	52	39	36	44	26	39.1
Doniphan	Maximum	59	55	52	51	40	51	61	73	70	65	46	57	57	39	40	51	65	55	55	60	62	62	50	50	51	54	70	60	70	70	66	57.0
	Minimum	30	44	46	37	33	26	35	58	59	43	37	41	33	18	18	23	24	27	48	55	49	47	39	25	30	29	34	28	34	43	20	35.9
Jackson	Maximum	61	53	52	52	40	49	61	71	66	59	50	58	59	40	40	53	55	56	56	59	61	59	46	51	52	51	71	68	59	69	66	56.2
	Minimum	30	44	43	37	33	26	34	54	57	41	32	35	30	25	20	23	24	27	45	52	55	46	40	30	35	26	49	32	27	46	17	36.0
Poplar Bluff	Maximum	64	57	55	52	40	55	65	75	71	64	48	58	58	46	42	60	63	55	56	61	62	59	52	45	45	52	67	66	59	65	65	57.5
	Minimum	34	45	46	38	34	26	35	59	60	43	36	43	33	21	21	26	28	33	50	54	56	50	42	29	31	31	51	35	29	45	21	38.2
Cairo, Ill.	Maximum	57	56	53	50	39	48	60	69	65	62	49	61	61	39	41	51	57	59	57	60	61	57	46	48	50	56	68	51	59	67	55	55.2
	Minimum	40	48	46	39	35	30	39	57	60	45	37	40	29	27	26	32	33	37	52	54	56	46	40	34	38	38	51	37	40	55	16	40.5
Ozark Plateau.																																	
Arcadia §§	Maximum	59	49	51	45	33	53	60	73	59	49	49	56	40	39	44	60	58	60	56	59	58	53	44	52	53	59	74	..	..	..	..	[d]53.5
	Minimum	30	34	43	41	30	24	24	36	51	45	31	31	31	16	16	20	21	23	26	48	54	50	37	25	24	24	36	30	..	..	..	[c]32.2
Birchtree	Maximum	56	56	50	49	38	55	50	75	73	63	48	53	53	40	43	58	58	56	54	60	59	55	45	51	51	55	75	69	58	71	64	56.2
	Minimum	32	40	45	33	32	22	32	42	58	35	35	42	30	16	19	26	26	31	38	53	53	43	37	28	33	33	52	28	28	44	13	34.8
Eldon	Maximum	65	55	51	45	48	52	69	65	51	49	45	49	45	46	44	60	61	60	68	59	59	45	45	48	50	45	65	52	61	48	36	52.9
	Minimum	35	34	37	32	28	26	30	42	40	34	25	35	24	22	24	22	27	29	40	43	44	39	29	27	31	30	29	25	27	32	6	30.6
Farmington	Maximum	58	53	43	40	33	47	59	70	63	51	57	52	52	42	45	52	55	60	54	55	63	58	43	48	47	55	73	65	60	68	60	54.2
	Minimum	40	38	39	33	31	25	33	49	49	40	33	31	30	18	22	25	27	29	47	53	53	43	39	28	35	28	47	29	29	47	14	35.0
Hollister	Maximum	69	62	60	56	40	58	60	80	82	68	64	68	50	48	41	40	60	58	56	60	70	60	62	60	59	65	64	60	68	70	60	60.6
	Minimum	50	44	40	39	32	25	35	38	46	30	36	38	30	15	18	20	18	20	25	28	48	42	44	40	40	25	22	28	32	40	10	32.2
Koshkonong	Maximum	60	56	53	50	38	55	65	75	75	68	46	53	56	44	42	57	57	58	54	61	60	58	49	51	53	58	74	71	61	72	66	57.9
	Minimum	38	48	48	37	32	26	36	57	60	40	36	42	33	19	21	30	34	35	46	54	52	45	38	30	34	36	53	32	33	47	17	38.4
Lebanon §§	Maximum	64	48	52	41	39	53	69	63	58	42	44	53	39	42	43	59	61	61	62	67	56	44	45	47	49	60	70	53	63	58	17	52.3
	Minimum	31	36	35	36	28	24	25	42	41	36	27	27	27	17	17	20	21	30	33	38	45	38	28	25	25	31	41	24	25	32	12	29.6
Mountain Grove §§	Maximum	63	47	51	41	34	54	65	71	68	40	42	53	36	41	39	60	62	56	54	64	59	46	44	42	49	58	70	57	60	65	27	52.2
	Minimum	32	37	39	40	29	25	26	38	49	38	32	32	29	17	19	23	23	29	39	46	51	45	32	27	28	32	42	27	26	34	11	32.2
Neosho	Maximum	65	62	48	50	44	57	68	64	64	56	46	52	53	49	46	58	59	55	52	65	58	54	48	53	52	59	73	56	66	62	32	55.7
	Minimum	37	37	41	38	32	23	32	46	38	38	36	42	29	16	26	20	22	26	43	36	44	40	28	25	25	36	47	25	29	30	9	32.1
Rolla	Maximum	64	58	52	52	33	50	64	62	60	51	45	52	40	43	40	56	61	58	55	58	58	56	43	48	47	57	70	56	60	63	50	53.6
	Minimum	37	38	41	32	30	24	38	54	46	38	30	40	28	18	25	25	31	30	46	48	48	41	33	27	31	32	51	27	30	47	12	34.8
Springfield	Maximum	63	52	51	46	39	52	67	65	63	48	45	50	41	40	39	52	54	52	53	62	56	45	43	46	48	61	69	49	60	57	21	51.3
	Minimum	41	36	45	34	30	29	40	51	46	36	33	39	26	21	26	27	35	39	44	49	45	38	30	27	32	40	33	29	36	21	7	34.4
Southwest Plain.																																	
Amoret	Maximum	48	44	45	44	43	61	58	..	..	..	45	47	39	40	42	58	58	44	47	49	52	42	47	52	57	56	50	53	61	50	30	[c]48.6
	Minimum	32	30	34	29	24	32	36	..	..	..	28	32	22	18	30	22	26	26	32	35	36	36	25	23	27	31	24	26	27	18	3	[c]27.3
Appleton City	Maximum	51	48	47	46	44	50	63	62	52	47	42	48	44	44	40	56	58	48	50	56	53	46	47	49	54	57	62	50	63	56	26	50.3
	Minimum	36	33	37	34	30	26	34	46	41	36	30	39	26	20	31	24	29	29	42	40	43	39	28	27	30	34	41	27	31	26	8	32.2
Clinton	Maximum	58	56	50	50	42	49	67	65	56	50	48	50	45	42	40	58	59	50	59	57	57	49	45	62	..	58	65	57	60	58	28	[a]53.0
	Minimum	35	32	37	32	30	27	35	35	41	37	28	34	27	21	25	37	29	28	27	40	44	39	34	31	..	45	30	27	28	28	10	[a]31.8
Harrisonville §§	Maximum	46	42	45	43	45	47	61	55	48	43	43	43	39	42	47	60	59	50	47	51	44	41	47	51	50	54	56	51	59	34	13	47.0
	Minimum	37	30	32	30	25	26	29	39	40	35	26	27	25	20	21	32	32	29	30	39	38	40	28	26	27	30	39	25	26	33	6	29.7
Lamar §§	Maximum	61	44	49	42	44	52	62	65	52	42	44	48	36	44	41	54	57	50	51	62	50	42	47	48	50	62	64	53	64	37	12	49.3
	Minimum	31	34	34	37	32	26	28	49	40	38	32	32	29	21	22	24	24	26	32	38	41	40	29	28	27	29	42	28	28	32	11	31.1
Lamonte	Maximum	57	42	46	44	41	45	63	58	49	43	45	48	39	46	43	58	61	55	52	58	51	42	44	50	48	53	59	51	61	44	26	49.1
	Minimum	33	32	34	31	28	24	33	39	37	33	23	37	22	18	26	23	28	27	40	38	38	38	26	24	26	29	34	23	28	24	4	29.0
Marshall	Maximum	54	49	35	40	..	43	62	61	51	48	43	48	43	45	54	56	54	51	51	56	53	43	42	45	46	53	59	49	56	45	31	[a]48.9
	Minimum	32	32	32	30	..	22	30	41	36	35	23	36	24	32	24	29	28	39	42	36	41	37	26	24	27	27	41	25	27	31	7	[a]30.5
Nevada	Maximum	57	47	49	47	42	51	64	62	52	48	41	49	44	42	42	53	58	50	50	60	53	41	46	50	50	58	64	50	64	52	24	50.3
	Minimum	36	32	39	38	28	28	36	40	37	40	30	39	27	21	31	30	29	28	40	36	39	39	28	27	29	34	39	28	32	24	8	32.0
Warrensburg	Maximum	46	47	45	44	42	46	62	56	50	46	44	41	48	42	42	58	60	60	50	60	56	43	45	50	51	65	61	51	60	51	26	49.9
	Minimum	35	34	34	34	29	25	34	39	38	35	25	38	24	21	29	28	25	28	42	44	39	37	26	25	28	38	43	25	31	26	7	31.2
Warsaw	Maximum	62	58	42	50	42	50	67	64	55	48	50	50	50	46	43	58	60	55	54	60	57	57	45	49	49	58	63	52	64	61	33	53.3
	Minimum	38	34	36	35	32	23	29	44	41	28	37	42	27	16	32	20	24	23	41	41	42	40	29	25	29	29	41	27	26	32	9	31.4
Northwest Plateau.																																	
Chillicothe §§	Maximum	44	37	41	37	40	42	59	55	48	45	42	44	35	42	48	58	59	55	47	54	41	41	44	49	47	50	46	50	54	35	8	45.1
	Minimum	22	24	25	28	26	24	26	37	33	33	20	21	22	21	21	25	28	28	32	33	34	34	26	24	24	29	37	24	25	29	8	26.5
Grant City	Maximum	34	43	49	47	46	50	55	57	54	46	43	39	38	45	54	60	61	56	48	50	50	44	47	50	46	48	48	48	52	48	20	47.6
	Minimum	24	20	29	22	21	23	30	39	34	30	18	33	18	20	38	24	27	28	39	38	34	36	22	21	28	31	30	20	28	16	−1	26.5
Kansas City	Maximum	47	37	44	41	44	44	60	54	46	43	40	45	37	43	47	56	60	51	48	50	49	41	46	50	47	53	53	47	58	42	12	46.3
	Minimum	35	30	37	31	27	30	39	41	37	30	27	33	25	26	37	37	40	38	40	39	35	34	28	27	32	38	33	31	36	12	0	31.8
Kidder §§	Maximum	40	45	43	38	40	41	55	55	47	43	42	39	36	38	43	55	56	55	50	48	54	53	58	55	52	50	42	45	55	37	6	45.7
	Minimum	23	22	24	26	23	22	26	37	32	32	22	24	10	11	23	24	29	29	31	34	35	37	30	20	23	29	33	24	34	35	5	26.1
Lexington §§	Maximum	45	46	43	45	42	42	45	61	55	48	46	43	46	43	41	46	57	60	54	48	51	48	42	45	49	49	52	55	49	57	49	48.5
	Minimum	32	31	35	31	27	26	33	41	35	34	24	37	24	22	31	28	32	31	40	33	39	39	27	26	27	32	36	26	29	33	7	30.6
Maryville	Maximum	43	33	46	42	45	46	56	55	45	43	38	38	36	43	52	57	62	56	43	50	47	46	46	52	46	46	46	49	52	42	12	45.6
	Minimum	33	19	30	25	21	25	32	39	32	30	22	33	17	19	31	28	28	28	39	40	35	37	25	21	25	30	32	22	29	12	−2	27.0
Oregon	Maximum	46	37	46	42	42	43	57	54	46	42	40	40	38	41	48	56	59	54	44	46	47	43	44	48	48	47	43	48	52	45	14	45.2
	Minimum	34	20	31	25	20	25	33	37	34	28	28	34	19	20	34	31	32	32	39	41	33	31	23	28	26	33	32	23	31	11	−1	28.0
St. Joseph	Maximum	45	35	48	42	43	43	59	57	47	43	39	40	36	42	51	60	60	55	45	48	46	41	46	49	47	49	46	49	55	40	10	45.7
	Minimum	32	23	35	26	23	26	38	37	37	29	26	32	22	24	34	30	31	32	41	39	33	31	26	25	29	33	30	26	34	10	−2	28.8
Trenton	Maximum	43	40	43	38	40	42	55	54	48	44	40	43	38	38	45	53	54	57	47	51	45	42	43	45	48	50	47	45	50	41	28	45.1
	Minimum	30	24	30	29	25	28	31	37	35	33	22	34	22	21	32	29	30	30	40	34	36	36	28	25	30	30	32	25	30	28	1	28.9

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

un ms

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVII. COLUMBIA, MO., YEAR, 1923. No. 13.

GENERAL SUMMARY.

The weather of the year 1923, in Missouri, did not differ much from the usual. There were no prolonged spells of extreme cold or heat, rain or drought. There were no river floods of consequence, and damage resulting from lightning, wind, and hail was limited to small, scattered local areas.

The more interesting and outstanding features of this otherwise placid year are here placed in review. Probably the persistent mild open weather of January, and December, and also of November caused most remark and made the more lasting impression. Mild winter months have considerable economic value for the people. The outdoors' worker is kept busy, there is open winter grazing, minimum heating of homes, and general good health. On the other side there usually is some complaint of sluggishness in the business channels of fuel, heavy clothing, and transit feeds. March weather was typical of the conditions commonly associated with this month; real winter weather prevailed on the 18th, and 19th. There was a general and marked cool wave on August 22d, and 23d, and another on September 13th to the 16th, the latter giving light frost temperatures in a few localities. While such marked temperature changes have occurred in other years along about the same dates, they are not common. More than one football hero went down to defeat because of the general and heavy snowstorm on Thanksgiving Day, November 29th.

Outside of the nearly complete destruction of peach buds by the low March temperatures, and some small damage to corn by local drought and hot winds, it was a fair to good year for all crops.

TEMPERATURE.

The annual mean for the State was 55.3°, or about 0.5° above the normal. January, August, and December were much warmer than normal. March, May, and October were colder than normal. The other months varied but little from normal conditions. The highest temperature, 108°, occurred at Hollister, Taney County, on August 14th, and the lowest, 11 below zero, occurred at Grant City, Worth County, March 19. In July only a few stations recorded temperatures of 100° or higher; in August about 32, but in both months the hot spells lasted only a few days. The winter cold spells were also short.

PRECIPITATION.

The annual precipitation for the State (rainfall and melted snow) was 41.23 inches, or about 2.36 inches more than the normal. January, March, June, September, October and December were somewhat wetter than usual. February, April, May, July, and November received somewhat less moisture than usual, although there was no persistent general deficiency in any month. The greatest local annual amount was 63.43 inches, at Caruthersville, Pemiscot County, and the least was 23.98 inches, at Edgerton, Platte County. The greatest local monthly amount was 11.83 inches, at Downing, Scotland County, in September. The least local monthly amount was 0.10 inch, at Fayette, Howard County, in January, and at Oregon, Holt County, in February. The greatest fall in any 24 consecutive hours was 7.42 inches, at Waverly, Lafayette County, on July 4th.

The seasonal snowfall was about 11 inches north of the Missouri River, about 10 inches in the southwestern plain, 4 inches in the Ozark Plateau, and less than 1 inch in the southeastern lowlands.

THE WEATHER BY MONTHS.

JANUARY.—Decidedly a mild month in all of Missouri, and the mildest January of record. Precipitation was unevenly distributed, the Ozark Plateau and southeastern lowlands being unusually wet, while the remainder of the State was relatively dry. There was very little snow. Outside of the wet sections the month was favorable for outdoor occupations. Winter wheat kept a good color and made good root growth.

FEBRUARY.—Averaged slightly colder than normal, but much of the month was open and mild. There was some near zero weather the first week, and spring-like the last week of the month. Precipitation was less than usual, though sufficient for needs. It is the eighth consecutive February with less than normal precipitation. There was one general snowstorm, on the 12th; it remained on the ground for about two days. There was much plowing, house building, and road construction done. Winter wheat did well.

MARCH.—Mainly a cold, wet, stormy month. Blizzard-like weather prevailed about the middle of the month, and particularly in the northern counties, where snow drifted three feet deep. Traffic was interrupted for a short time. The 19th was a real winter day, zero temperatures occurring at 32 stations. Peach buds were killed, but winter wheat was not damaged. Clover, alfalfa, and early sown oats were damaged.

APRIL.—The month's weather did not differ much from the usual. The cold of March overlapped the first few days of April, but by the 8th, following a snowstorm on the 5th, there was a reaction to more seasonable weather. Showers were frequent, but as a rule light to moderate, soil moisture being sufficient for needs. There were no damaging storms. Farming interests continued in satisfactory condition.

MAY.—Except the first and last weeks, the month was mainly cool, with general frosts about the 8th to 10th. There was a flurry of snow on the 8th. Precipitation was unevenly distributed, and there were a few local down-pours, and local damage. While conditions varied in parts of the State, the month's weather was unfavorable for farm work and crops, all vegetation being backward.

JUNE.—Temperatures did not differ much from the usual, but there was rather more cloudiness, rain, and wind than occurs in an average June. Hot, sultry weather prevailed from about the 16th to 26th, but the last four days were pleasant. Rainfall exceeded the normal. The latter half of the month was favorable for farming interests, and all crops fared well, wheat harvests being well advanced at the close of the month. Local storms 8th, 27th, and 28th.

JULY.—The month was somewhat warmer and drier than normal, especially over the eastern-third of the State. In the main, however, it was a pleasant summer month, and generally favorable from the agricultural side. There was some storm damage in the southwestern section on the 29th. At the close of the month farm work was well up to the average, and the main crops were normal or better.

AUGUST.—The outstanding feature of the month was a well marked cool wave on the 22d and 23d. Drought was rather a persistent feature in most of the Ozark Plateau and southwestern plain, while in most of the northern half of the State the month was wetter than usual. Heat was more noticeable in southern sections, the result of relatively scanty rainfall and much sunshine. Drought and hot winds damaged crops in the southwestern section, but elsewhere all crops continued in a normal state.

(Continued on Page 53.)

Climatological data for Year, 1923.

Stations	Counties	Elevation, feet	Temperature (Degrees Fahrenheit)						Precipitation (inches)							Number of days				Prevailing direction of wind.
			Length of record, yrs.	Annual mean	Highest	Date	Lowest	Date	Length of record, yrs.	Total	Greatest monthly	Month	Least monthly	Month	Total snowfall	With precip. .01 inch or more	Clear	Partly cloudy	Cloudy	
Northeast Plain.																				
Brunswick	Chariton	652	45	54.4	104	Aug. 14	− 2	Feb. 4	45	32.96	7.55	June	0.40	Jan.	10.7	108	189	3	173	nw.
Clifton Hill	Randolph	731	25	53.2	99	" 14	− 4	" 4	15	27.63	7.34	"	0.59	Feb.	7.2	100	146	104	115	...
Columbia	Boone	748	34	54.7	97	" 11	1	" 4	34	35.71	6.31	"	1.00	"	4.9	114	123	97	145	se.
Downing	Schuyler	878	3	53.4	98	July 10†	− 9	Feb. 3	15	40.62	11.83	Sept.	0.39	"	26.2	101	147	91	127	s.
Fayette	Howard	661	44	50.6	96	Aug. 11†	− 5	" 3†	41	33.41	7.51	June	0.10	Jan.	3.6	74	....	....	....	......
Fulton	Callaway	818	36	55.3	97	" 4†	0	" 4	32	37.89	5.73	July	1.07	Feb.	3.6	105	154[a]	117[a]	93[a]	w.
Gorin	Scotland	700	..	....	..	....	....	....	37	32.80	7.72	Sept.	0.27	"	12.9	93	138	68	159	se.
Hannibal	Marion	534	32	54.0	98	Aug. 11	− 2	Feb. 3	40	33.68	7.29	Aug.	0.53	"	11.1	116	125	102	138	sw.
Jefferson City	Cole.	557	36	55.2	100	" 11	1	Mar. 19	40	41.09	6.47	June	1.55	Jan.	6.8	100	217	42	106	n.
Kirksville	Adair.	969	35	52.1	97	" 7†	− 5	Feb. 3†	42	35.87	7.36	Aug.	0.18	Feb.	19.0	78	164[b]	48[b]	151[b]	ne.
Louisiana	Pike	469	30	55.3	98	June 24	− 2	" 4	43	40.76	7.94	"	0.77	Jan.	13.6	97	226	43	96	n.
Macon	Macon	875	25	52.3	100	Aug. 11†	− 6	" 3†	31	33.48	7.09	"	0.17	Feb.	4.9	113	186	88	91	se.
Mexico	Audrain	800	35	52.3	100	" 11	− 3	" 4	46	32.81	6.59	June	0.72	Jan.	3.6	111	223	12	130	w.
St. Catharine	Linn	800	13	53.2	96	July 9†	− 3	Mar. 19	13	37.42	9.55	Aug.	0.21	Feb.	22.5	114	150	117	98	s.
St. Charles	St. Charles	456	36	56.2	99	Aug. 4†	0	Feb. 4	46	39.25	7.02	"	1.12	July	11.2	85	118	105	142	s.
St. Louis (1)	St. Louis City	717	50	56.7	98	" 11	1	" 4	87	41.69	6.19	"	1.50	Feb.	5.9	119	110	120	135	s.
St. Louis (2)	......do	578	12	56.1	96	" 7†	1	" 4	12	43.67	5.97	May	1.77	"	5.5	115	135	106	124	se.
Steffenville	Lewis	650	26	55.0	101	July 21	− 5	" 3†	31	35.75	7.26	Aug.	0.12	"	7.0	94	151	119	95	s.
Unionville	Putnam	1,062	31	52.1	99	" 10	− 8	" 4	31	34.29	8.16	"	0.45	"	24.5	83	143	86	136	n.
Warrenton	Warren	816	42	54.8	99	Aug. 4†	− 1	" 4	34	38.09	5.50	June	0.98	Jan.	7.5	105	199	72	94	nw.
Keokuk, Iowa	Lee, Iowa	574	52	53.1	98	" 7	− 6	" 3	52	25.47	4.64	Sept.	0.35	Feb.	19.2	106	110	96	156	nw.
Section means and	extremes	....	..	54.0	101	July 21	− 9	Feb. 3	..	35.92	11.83	Sept.	0.10	Jan.	11.0	101	158	82	125	s.
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	28	63.1	105	July 24†	12	Feb. 4†	33	63.43	10.13	May	2.30	Aug.	1.0	94	214	53	98	e.
Doniphan	Ripley	344	20	58.5	101	" 24	1	" 9	20	58.16	9.89	"	1.96	July	1.0	114	174	92	99	s.
Jackson	Cape Girardeau	428	33	57.7	103	" 24	6	" 4†	34	58.58	11.31	"	1.56	"	0.7	117	93	135	137	s.
Marble Hill	Bollinger	470	29	58.4	101	Aug. 12	6	Mar. 19	30	61.97	9.24	"	1.50	"	T.	92	178	91	96	n.
Parma	New Madrid	281	..	....	..	....	....	....	3	61.52	10.13	"	2.28	Aug.	0	92	....	....	....	......
Patton	Bollinger	500	..	....	..	....	....	....	15	51.17	6.99	"	1.23	Sept.	0	66	....	....	....	......
Poplar Bluff	Butler	339	20	59.2	101	July 24	8	Mar. 19	20	61.74	8.52	"	1.57	Aug.	T.	125	185	94	86	ne.
Vanduser	Scott	304	..	....	..	....	....	....	3	55.32	7.98	"	2.17	"	0	88	....	....	....	......
Cairo, Ill.	Alexander, Ill.	359	49	58.7	96	July 24†	9	Feb. 4†	52	45.91	7.01	Jan.	2.01	July	1.6	119	97	95	173	s.
Section means and	extremes	....	..	59.3	105	July 24†	1	Feb. 9	..	57.53	11.31	May	1.23	Sept.	0.5	101	157	93	115	s.
Ozark Plateau.																				
Arcadia	Iron	926	43	54.8	99	July 24	2	Fe.b 4†	46	42.21	6.13	May	0.90	July	2.3	105	161	70	134	s.
Birchtree	Shannon	1,000	29	....	98	Aug. 5	3	Mar. 19	30	50.24	6.99	"	2.06	Nov.	T.	90	223[k]	34[k]	97[k]	s.
Bolivar	Polk	1,071	30	55.7	102	" 5	2	" 19	37	41.58	7.50	June	0.93	Feb.	9.0	94	217	79	69	sw.
Dean	McDonald	1,000	25	....	..	....	....	....	25	53.38	9.54	Oct.	0.36	Aug.	7.0	97	218[h]	47[h]	92[h]	sw.
Eldon	Miller	934	28	55.5	102	Aug. 11	0	Feb. 4†	25	35.35	4.17	April	0.65	Feb.	7.0	79	80[i]	156[i]	119[i]	ne.
Farmington	St. Francis	918	13	56.3	98	" 5†	2	" 4	27	51.20	8.16	May	2.07	Nov.	4.7	114	153	113	99	sw.
Gano	Dent	1,250	20	54.8	102	" 4	− 2	" 4†	23	47.78	7.82	June	2.02	"	8.0	105	173	80	112	nw.
Goodland	Iron	1,000	30	55.3	103	" 4†	2	" 4†	31	45.20	7.61	May	0.97	July	5.0	85	184	85	96	s.
Greenville	Wayne	381	2	57.5	98	July 24†	7	Mar. 19	2	56.34	10.47	"	2.50	"	T	128	204	78	83	s.
Hollister	Taney	735	37	58.8	108	Aug. 14	5	" 19	21	42.72	6.00	June	0.28	Aug.	2.0	55	171[d]	83[d]	107[d]	sw.
Koshkonong	Oregon	958	23	59.0	98	Aug. 4†	5	" 19	23	49.04	7.77	May	1.16	"	T	106	142[e]	84[e]	134[e]	sw.
Lebanon	Laclede	1,265	36	54.9	102	" 4	− 1	" 19†	37	36.78	5.49	July	0.97	Feb.	2.0	110	186[m]	48[m]	118[m]	s.
Lockwood	Dade	1,078	18	57.4	103	" 14	3	" 19	28	52.09	8.97	Sept.	0.74	Aug.	10.0	79	201	62	102	se.
Mountain Grove	Wright	1,463	23	55.3	102	" 14	2	" 19	25	40.79	6.05	May	1.04	"	2.5	121	149[n]	101[n]	114[n]	se.
Neosho	Newton	1,011	36	58.6	104	" 4†	5	" 19	41	52.22	8.49	"	0.24	"	3.0	95	203	74	88	sw.
Rolla	Phelps	1,099	24	57.1	107	" 5	0	" 19	40	43.34	5.38	July	1.12	Feb.	2.6	103	196	91	78	s.
Seligman	Barry	1,542	22	....	104	" 14	3	" 19	22	.....	....	......	....	......	....	....	....	....	....	......
Seymour	Webster	1,642	18	55.7	96	" 4†	0	" 19	18	49.13	6.77	July	2.23	Feb.	5.0	106	167	102	96	se.
Springfield	Greene	1,350	36	56.3	100	" 14	2	" 19	36	39.53	6.10	June	0.78	Aug.	7.0	121	172	86	107	se.
Section means and	extremes	....	..	56.5	108	Aug. 14	− 2	Feb. 4†	..	46.05	10.47	May	0.24	Aug.	4.1	100	179	83	103	s.
Southwest Plain.																				
Amoret	Bates	831	18	55.2	99	Aug. 5†	0	Mar. 18	18	48.05	8.30	June	0.49	Feb.	9.3	96	181[f]	81[f]	97[f]	sw.
Appleton City	St. Clair	853	30	56.7	100	" 5	3	" 19	32	40.46	7.47	"	0.67	"	6.5	113	153[d]	140[d]	68[d]	sw.
Clinton	Henry	765	31	57.8	105	July 24	3	" 19	37	39.76	5.89	Mar.	0.95	"	8.1	105	179[c]	83[c]	100[c]	sw.
Harrisonville	Cass	904	47	54.4	100	Aug. 11	1	Feb. 4†	49	34.21	6.34	Sept.	0.35	Jan.	11.6	101	75	36	254	nw.
Lamar	Barton	980	37		106	" 14	2	Mar. 19	43	46.85	8.41	"	0.60	Aug.	9.5	92	173	62	130	sw.
Lamonte	Pettis	867	23	55.5	100	" 7†	0	" 19	37	42.50	9.11	June	0.54	Jan.	11.5	103	183	107	75	se.
Marshall	Saline	779	35	55.1	100	" 14	0	Feb. 4	35	40.37	9.03	"	0.42	"	7.7	81	155[s]	99[s]	92[s]	ne.
Nevada	Vernon	862	31	57.0	102	" 14	4	Mar. 19	32	40.58	9.36	"	0.70	Feb.	8.0	79	176	78	111	s.
Warrensburg	Johnson	878	37	....	101	" 11†	4	" 18	44	.....	....	......	....	......	....	....	....	....	....	......
Warsaw	Benton	687	24	57.0	103	" 5	2	" 19	29	40.12	6.25	June	1.50	Feb.	16.0	112	118	183	64	w.
Section means and	extremes	....	..	56.1	106	Aug. 14	0	Feb. 4†	..	41.43	9.36	June	0.35	Jan.	9.9	99	156	98	111	sw.
Northwest Plateau.																				
Avalon	Livingston	730	34	54.6	97	Aug. 7	− 2	Feb. 3	27	44.53	8.20	Aug.	0.51	Feb.	16.3	71	....	....	....	sw.
Bethany	Harrison	916	32	....	..	....	−10	Mar. 19	33	.....	....	......	0.30	"	16.7	....	....	....	....	sw.
Chillicothe	Livingston	779	15	52.1	98	Aug. 14	− 4	Feb. 4	18	33.03	5.97	Aug.	0.18	"	15.6	81	199	73	93	nw.
Conception	Nodaway	980	35	53.1	102	June 25	− 9	" 3	40	33.53	6.44	Sept.	0.11	"	12.0	76	140	137	88	se.
Edgerton	Platte	856	4	51.9	93	Aug. 11†	− 1	Mar. 19	12	23.98	4.20	"	0.16	"	8.1	95	239[i]	33[h]	91[h]	s.
Grant City	Worth	1,134	20	54.1	100	July 10	−11	" 19	32	29.50	7.27	June	0.16	Jan.	15.6	66	165[n]	138[n]	60[n]	s.
Kansas City	Jackson	963	35	55.4	99	Aug. 7	0	Feb. 3†	35	37.28	9.61	Sept.	0.16	"	13.6	113	147	121	97	nw.
Kidder	Caldwell	1,020	31	52.9	100	" 7†	− 3	" 3†	36	35.66	7.29	"	0.37	Feb.	17.6	92	183	50	132	se.
Lexington	Lafayette	688	39	55.5	99	" 11	0	" 4	42	35.15	5.99	"	0.37	"	10.9	107	170	92	103	s.
Liberty	Clay	859	34	55.2	101	" 11†	− 1	" 3†	34	33.37	8.84	June	0.23	"	13.3	97	156[k]	125[k]	73[k]	nw.
Maryville	Nodaway	1,036	34	52.6	98	July 10	− 7	" 3	30	28.30	5.35	Sept.	0.22	"	16.2	89	216	22	127	n.
Oregon	Holt	1,048	68	52.8	95	June 25†	− 6	" 3	69	29.86	8.50	"	0.10	"	15.2	81	154	101	110	nw.
St. Joseph	Buchanan	967	16	54.3	98	" 25†	− 4	" 3	52	27.38	5.02	"	0.20	"	9.7	113	165	105	95	se.
Tarkio	Atchison	916	21	52.2	98	" 25†	− 7	" 3	31	24.03	5.20	Aug.	0.15	Jan.	24.2	74	150	108	107	se.
Trenton	Grundy	822	28	53.2	95	" 25	− 3	" 3	29	38.01	8.07	June	0.20	Feb.	16.5	106	191	95	79	n.
Section means and	extremes	....	..	53.6	102	June 25	−11	Mar. 19	..	32.40	9.61	Sept.	0.10	Feb.	11.5	90	175	93	97	se.
State means and	extremes	....	..	55.3	108	Aug. 14	−11	Mar. 19	..	41.23	11.83	Sept.	0.10	Jan.	8.6	98	165	90	110	s.

†Also on other dates.

a, b, c, indicate the number of days missing from records, a, 1; b, 2; c, 3; etc.

Monthly and Annual Precipitation for the Year 1923, with Departures.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual	
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
Northeast Plain.																										
Boonville	0.94	−0.93	1.04	−1.38	4.25	+1.22	4.69	+0.78	2.63	−2.60	8.84	+3.37	3.75	−0.17	5.47	+1.74	5.39	+0.70	2.79	−0.04	1.93	−0.38	2.66	+0.75	44.38	+3.06
Brunswick	0.40	−1.37	0.40	−1.61	3.98	+1.50	1.68	−1.80	1.87	−3.02	7.55	+2.36	2.42	−2.22	2.03	−1.86	5.51	+1.12	2.92	+0.19	1.76	−0.21	2.44	+0.82	32.96	−6.10
Clifton Hill	0.60	−1.41	0.59	−1.37	3.34	+0.72	2.13	−2.23	1.61	−3.53	7.34	+3.00	1.94	−1.94	2.41	−1.62	3.39	−1.47	0.94	−1.18	1.55	−0.36	1.79	+0.39	27.63	*11.00
Columbia	1.40	−0.83	1.00	−1.13	3.61	+0.58	4.21	+0.51	1.97	−2.89	6.31	+1.93	3.71	+0.06	3.92	+0.88	3.03	+0.18	2.67	+0.25	1.35	−0.96	2.53	+0.52	35.71	−0.90
Downing	0.98	−0.87	0.39	−1.06	3.86	+1.46	1.93	−1.82	2.80	−1.61	4.71	+0.33	1.90	−3.03	6.53	+3.01	11.83	+7.12	2.11	−0.09	1.60	−0.03	1.98	+0.52	40.62	+3.93
Fayette	0.10	−2.01	0.14	−1.94	3.90	+1.25	4.58	+1.04	1.80	−2.82	7.51	+2.97	2.47	−1.18	2.13	−1.09	4.18	−0.65	2.16	−0.32	1.93	−0.07	2.51	+0.88	33.41	−3.94
Fulton	1.90	−0.71	1.07	−1.03	4.19	+1.28	3.22	−1.11	2.29	−1.48	4.34	+0.14	5.73	+1.74	3.66	+0.15	2.84	−1.55	3.59	+0.84	1.80	−0.45	3.26	+1.34	37.89	−0.84
Gorin	0.89	−0.87	0.27	−1.35	3.56	+1.09	1.12	−2.88	3.05	−1.56	3.92	+0.01	2.04	−1.99	6.28	+3.28	7.72	+3.43	1.18	−1.20	1.05	−0.91	1.72	+0.03	32.80	−2.92
Hannibal	0.75	−1.45	0.53	−1.07	4.24	+1.48	2.38	−0.87	2.05	−2.95	5.25	+1.73	0.87	−2.88	7.29	+3.91	3.69	+0.13	2.41	+0.77	1.91	−0.04	2.31	+0.66	33.68	−0.58
Hermann	1.02	−1.21	2.36	−0.07	3.72	+0.72	4.27	+0.33	2.18	−2.20	4.72	+0.40	5.06	+1.41	4.90	+1.71	1.97	−2.06	3.46	+0.67	2.08	−0.64	3.31	+1.49	39.05	+0.55
Jefferson City	1.55	−0.67	1.59	−0.50	3.37	+0.55	4.52	+0.98	2.97	−1.58	6.47	+2.45	6.21	+2.76	2.35	−0.71	3.22	−0.06	3.47	+0.88	2.64	+0.37	2.73	+0.88	41.09	+5.35
Kirksville	1.20	−0.44	0.18	−1.75	4.58	+1.87	1.32	−2.32	3.85	−1.36	5.09	+0.82	1.26	−3.19	7.36	+4.04	4.42	+0.11	2.25	−0.48	2.38	+0.62	1.98	+0.34	35.87	−1.74
Louisiana	0.77	−1.28	0.93	−1.54	5.69	+3.02	3.77	+0.39	2.87	−1.69	3.85	−0.10	1.55	−1.57	7.94	+4.21	4.55	+0.60	3.71	+1.08	1.26	−1.02	3.87	+2.18	40.76	+4.28
Macon	0.97	−0.89	0.17	−2.01	3.74	+1.22	2.10	−1.09	3.10	−1.47	4.94	+0.53	1.87	−1.89	7.09	+3.81	3.94	−0.27	1.57	−1.16	1.91	−0.02	2.08	+0.68	33.48	−2.56
Mexico	0.72	−1.46	1.28	−1.17	3.96	+1.29	2.27	−1.40	1.48	−3.28	6.59	+1.81	2.39	+1.36	4.25	+1.00	1.88	−2.80	3.70	+1.32	1.74	−0.58	2.55	+0.55	32.81	−3.36
Milan	....	......	....	......	....	......	3.07	......	1.69	......	5.03	......	2.50	......	5.93	......	3.51	......	2.10	......	1.87	......	1.67	......	......	......
Pacific	2.08	−0.33	2.40	+0.06	4.10	+0.39	3.22	−0.86	4.41	−0.58	5.46	+1.09	1.48	−2.60	7.99	+4.17	3.16	−0.70	3.21	+0.26	....	......	3.91	+1.85	......	......
Palmyra	1.24	−1.41	0.53	−1.76	3.71	+0.80	2.41	−1.21	....	......	....	......	....	......	....	......	....	......	....	......	1.16	−1.15	1.98	+0.31	......	......
St. Catharine	0.79	−0.47	0.21	−1.03	3.45	+0 87	3.02	−0.51	2.13	−2.57	5.30	+0.52	1.72	−2.85	9.55	+5.85	5.31	+1.21	2.23	+0.27	1.73	0.00	1.98	+0.70	37.42	+1.99
St. Charles	1.89	−0.61	2.07	−0.83	3.04	−0.10	2.99	−0.69	4.71	+0.53	5.36	+1.40	1.12	−2.11	7.02	+3.56	2 48	−0.80	2.69	+0.02	1.77	−0.77	4.11	+2.24	39.25	+1.84
St. Louis(1)	2.08	−0.19	1.50	−1.25	4.26	+0.83	3.20	−0.32	5.85	+1 61	4.33	−0.14	1.83	−1.60	6.19	+3.53	3.51	+0.60	3.74	+1.33	1.90	−0.98	3.30	+1.07	41.69	+4.49
St. Louis(2)	2.17	−0.90	1.77	−0.54	4.53	+1.58	3.57	−0.44	5.97	+1.73	3.11	−0.65	2.05	−0.70	5.93	+0.32	4.62	−0.02	4.00	+0.21	2.25	−0.06	3.70	+1.60	43.67	+2.13
Shelbina	0.53	−1.37	....	......	3.40	+0.78	1.90	−1.63	1.89	−3.09	7.17	+2.46	1.22	−2.94	6.43	+3.58	2.92	−1.06	1.80	−0.92	....	......	1.55	−0.06	......	......
Steffenville	1.94	−0.53	0.12	−1.93	4.65	+1.83	1.32	−2.29	3.94	−1.01	4.59	+0.49	1.37	−3.06	7.26	+3.79	6.20	+2.01	1.23	−0.89	1.46	−0.47	1.67	+0.11	35.75	−1.95
Union	1.86	......	2.56	......	4.25	......	3.18	......	3.20	......	5.32	......	2.73	......	9.80	......	3.37	......	4.22	......	2.00	......	4.28	......	46.77	......
Unionville	1.30	−0.80	0.45	−1.55	4.22	+1.91	1.25	−2.56	1.90	−3.06	4.10	−0.58	1.90	−2.39	8.16	+4.20	4.31	−0.30	2.75	+0.29	2.15	−0.33	1.80	+0.16	34.29	−5.01
Valley Park	1.29	......	2.36	......	4.53	......	3.05	......	5.92	......	5.78	......	3.09	......	5.29	......	2.91	......	3.96	......	2.07	......	3.88	......	44.13	......
Warrenton	0.98	−1.48	2.09	−0.42	4.02	+0.73	4.58	+0.27	3.00	−1.79	5.50	+1.54	1.38	−2.04	5.50	+2.32	2.47	−1.57	3.07	+0.21	1.93	−0.66	3.57	+1.44	38.09	−1.45
Keokuk, Ia.	1.13	−0.56	0.35	−1.27	3.54	+1.17	1.16	−2.19	2.37	−1.88	3.17	−1.18	1.61	−2.42	3.63	+0.39	4.64	+0.67	0.82	−1.67	1.26	−0.59	1.79	−0.08	25.47	−9.61
Southeast Lowlands																										
Cape Girardeau	5.30	+1.38	4.07	+1.89	4.61	+1.20	3.34	−0.60	5.50	+1.23	2.12	−1.60	1.94	−0.96	5.81	+1.54	3.12	+0.80	2.68	−0.56	2.70	−0.64	5.40	+2.11	46.59	+5.79
Caruthersville	7.30	+2.55	3.70	−0.10	6.98	+2.98	3.84	−0.28	10.13	+5.87	6.66	+2.68	3.27	−0.14	2.30	−1.27	6.80	+3.70	2.53	−0.43	3.75	−0.10	6.17	+1.73	63.43	†17.19
Doniphan	7.34	+3.13	2.60	−0.55	7.92	+4.33	4.90	−0.47	9.89	+5.73	6.22	+1.84	1.96	−2.77	4.12	−0.19	2.52	−1.12	3.44	+0.39	2.92	−0.20	4.33	+1.00	58.16	†11.12
Jackson	5.85	+2.13	3.66	+0.77	6.16	+1.82	4.12	−0.35	11.31	+6.95	3.63	−0.66	1.56	−1.96	6.13	+2.52	3.78	+0.23	4.07	+0.85	2.84	−0.29	5.47	+2.27	58.58	†14.28
Marble Hill	6.87	+3.34	4.56	+1.28	7.90	+3.72	5.77	+1.33	9.24	+5.01	3.66	−0.51	1.50	−3.18	4.10	+0.60	4.36	+0.73	4.98	+2.33	3.70	+0.53	5.33	+2.00	61.97	†17.18
New Madrid	8.56	+3.20	4.22	+0.37	6.45	+1.20	5.75	+1.40	10.79	+6.20	4.02	−0.19	1.23	−2.68	2.23	−1.65	5.66	+2.35	4.13	+0.88	4.23	+0.38	7.27	+2.91	64.54	†14.37
Parma	5.81	......	3.69	......	8.19	......	4.15	......	10.13	......	4.47	......	3.10	......	2.28	......	5.48	......	3.44	......	4.45	......	6.33	......	61.52	......
Patton	4.26	+1.21	4.80	+2.86	6.32	+2.26	2.95	−0.53	6.99	+2.21	4.88	+1.21	3.15	−0.59	6.17	+1.63	1.23	−1.98	4.26	+1.09	2.50	+0.27	3.66	+0.64	51.17	†10.28
Poplar Bluff	7.55	+3.58	2.89	−0.07	8.30	+3.78	6.08	+1.61	8.52	+3.49	7.63	+2.61	2.37	−1.18	1.57	−2.70	4.96	+1.38	3.84	+0.64	3.36	+0.10	4.67	+0.49	61.74	†13.73
Vanduser	7.82	+3.59	2.91	−0.35	6.46	+1.96	4.69	+0.43	7.98	+3.82	3.64	−0.24	2.88	−1.89	2.17	−1.64	2.72	−0.14	3.89	+1.29	4.25	+0.60	5.91	+1.90	55.32	+9.33
Cairo, Ill.	7.01	+3.19	2.57	−0.76	5.00	+0.98	4.02	+0.45	5.10	+1.27	3.30	−1.01	2.01	−1.44	2.48	−0.45	3.48	+1.01	2.43	−0.20	3.59	−0.43	4.92	+1.59	45.91	+4.20
Ozark Plateau																										
Annapolis	....	......	....	......	....	......	....	......	....	......	3.32	......	1.06	......	4.31	......	2.39	......	3.26	......	1.94	......	4.49	......	......	......
Arcadia	3.07	−0.15	3.15	−0.01	5.32	+1.25	3.34	−1.28	6.13	+1.35	3.14	−1.44	0.90	−3.34	2.15	−1.57	3.41	−0.23	4.47	+1.40	1.73	−1.89	5.40	+2.42	42.21	−3.49
Birchtree	5.84	+2.78	4.05	+1.56	5.66	+1.41	3.26	−1.46	6.99	+2.68	5.19	+0.66	3.43	−0.56	3.35	−1.04	2.54	−1.05	2.73	+0.15	2.06	−0.83	5.14	+2.57	50.24	+6.87
Bolivar	3.04	+1.15	0.93	−1.36	2.67	−0.37	2.61	−1 38	4.10	−1.32	7.50	+2.48	3.90	+0.15	1.71	−1.97	3.99	−0.11	4.35	+1.04	3.64	+1.11	3.14	+0.74	41.58	+0.16
Dean	2.88	+0.64	2.12	+0.29	4.08	+0.73	3.97	−0.07	7.78	+1.82	7.24	+1.97	3.06	−0.99	0.36	−3.91	3.83	+0.21	9.54	+6.05	3.81	+0.77	4.71	+2.59	53.38	†10.10
De Soto	....	......	....	......	....	......	....	......	....	......	5.54	....	....	......	3.44	......	1.90	......	3.57	......	2.03	......	3.25	......	......	......
Eldon	2.50	+0.96	0.65	−1.45	2.43	−0.40	4.17	−0.29	3.72	−1.14	3.86	−0.45	3.05	−0.61	3.16	−0.82	4.12	+0.32	3.44	+0.41	2.04	−0.17	2.21	+0.05	35.35	−3.59
Farmington	3.43	+1.08	3.60	+0.31	4.62	+1.35	3.00	−0.96	8.16	+2.66	2.78	−1.85	3.03	−0.52	5.87	+2.49	4.98	+1.76	4.17	+1.28	2.07	−1.89	5.49	+2.78	51.20	+8.49
Fredericktown	....	......	....	......	....	......	....	......	....	......	5.88	......	4.42	......	7.64	......	4.31	......	6.38	......	1.98	......	3.76	......	......	......
Galena	....	......	....	......	....	......	....	......	....	......	....	......	....	......	0.64	−3.00	1.92	−2.21	5.16	+2.72	4.18	+1.28	4.12	+1.50	......	......
Gano	3.18	+0.33	2.39	+0.01	4.23	+0.93	3.83	−0.72	6.59	+2.05	7.82	+3.52	2.93	−0.57	3.01	−1.40	3.68	−0.58	3.59	−0.29	2.02	−0.29	4.51	+2.50	47.78	+5.49
Goodland	4.20	+1.33	1.99	−0.50	4.87	+0.62	2.65	−2.44	7.61	+2.99	4.69	+0.59	0.97	−3.21	3.30	−0.73	3.63	−0.10	4.99	+1.77	1.27	−1.62	5.03	+2.55	45.20	+1.25
Greenville	6.47	......	3.14	......	6.07	......	3.94	......	10.47	......	5.38	......	2.50	......	3.93	.....	3.62	......	4.67	.... .	2.50	......	3.65	......	56.34	.....
Hollister	5.20	+2 59	3.04	+0.96	4.20	+0.97	3.15	−1.42	4.70	+0.47	6.00	+1.99	2.05	−1.87	0.28	−3.69	1.65	−2.06	3.15	+0.32	3.85	+1.07	5.45	+3.18	42.72	+2.51
Houston	4.55	+2.00	2.17	−0.05	3.40	−0.73	2.14	−2.30	6.87	+2.78	...	......	....	......	....	......	....	......	....	......	....	......	...	......	......	......
Jerome	2.11	+0.05	1.47	−1.02	3.48	+0.82	3.21	−0.60	3.50	−0.96	4.64	+1.11	3.01	−0.22	3.19	−1.05	3.33	−0.05	4.78	+2.91	2.27	−0.21	3.89	+2.40	38.88	+3.18
Koshkonong	6.08	+2.54	2.75	−0.04	5.36	+1.55	5.17	+0.20	7.77	+2.93	4.56	+0.08	2.65	−1.27	1.16	−3.29	3.23	−0.26	3.92	+1.01	2.14	−0.88	4.25	+1.09	49.04	+3.66
Lebanon	2.34	−0.11	0.97	−1.53	1.91	−1.54	2.59	−1.59	3.27	−2.34	4.12	−0.81	5.49	+1.37	1.80	−1.73	3.31	−0.78	4.40	+1.14	3.66	+1.12	2.92	+0.32	36.78	−6.48
Lockwood	3.19	+1.53	1.25	−0.72	3.07	+0.61	4.75	+1.09	6.76	+1.68	5.69	+0.89	4.17	−0.70	0.74	−3.43	8.97	+4.97	6.42	+2.97	3.70	+1.49	3.38	+1.44	52.09	†11.82
Mountain Grove	3.36	+0.49	3.27	+1.01	4.61	+0.27	4 05	−0.73	6.05	+1.20	4.12	−0.44	3.35	−0.65	1.04	−3.36	1.67	−2.37	2.58	−0.47	2.40	−0.03	4.29	+2.06	40.79	−3.02
Neosho	3.30	+0.80	1.19	−1.19	2.99	−0.48	4.37	+0.25	8.49	+2.42	8.20	+2.77	3.46	−0.72	0.24	−3.85	4.36	+0.14	7.77	+4.38	4.33	+1.27	3.52	+0.98	52.22	+6.77
Rolla	2.54	+0.09	1.12	−1.22	4.07	+0.48	4.42	−0.24	4.01	−1.00	4.85	+0.72	5.38	+1.29	2.29	−1.79	4.18	+0.34	3.98	+1.03	2.23	−0.08	4.27	+2.20	43.34	+1.82
Seligman	5.72	+3.48	2.05	+0.17	3.09	−0.85	3.08	−0.85	7.51	+1.92	4.05	+0.52	3.22	−1.18	0.31	−3.68	5.68	+1.56	....	......	....	......	3.41	+0.84	.....	... ..
Seymour	4.44	+1.74	2.23	−0.22	3.43	−0.63	3.32	−0.64	5.95	+0.25	5.05	+0.42	6.77	+2.02	3.76	−0.14	3.69	−0.89	3.69	+0.68	3.58	+1.25	3.28	+1.23	49.13	+5.07
Springfield	3.43	+0.77	1.27	−1.00	2.40	−1.67	3.33	−0.53	4.55	−1.00	6.10	+0.91	2.67	−2.12	0.78	−3.53	3.82	+0.06	4.79	+1.99	3.47	+0.83	2.92	+0.25	39.53	−5.04
Steelville	2.32	+0.47	2.63	+0.37	3.73	+1.65	3.43	−0.88	4.34	0.00	3.77	−0.38	1.39	−1.81	4.29	+0.78	....	.....	3.76	+0.55	2.17	−0.51	4 50	+2.59	.....	......
Tuscumbia	1.56	......	1.61	......	3.43	......	2.75	......	3.56	......	2.82	......	4.04	......	3.59	......	5.27	......	3.87	......	2.36	......	3.08	. ...	37.94	......
Willow Springs	....	......	....	......	....	...	....	......	....	......	....	....	3.57	......	2.14	.....	2.86	......	2.99	......	2.40	......	5.61	......	.....	......
Southwest Plain																										
Amoret	1.25	−0.04	0.49	−1.66	4.25	+1.75	2.38	−1.62	3.46	−1.36	8.30	+4.44	7.07	+3.11	1 76	−2.25	7.46	+3.56	6.95	+4.43	1.92	+0.26	2.76	+1.17	48.05	†11.79
Appleton City	1.49	−0.34	0.67	−1.30	4.23	+1.16	1.96	−2.30	4.73	−0.81	7.47	+2.48	3.83	−0.80	2.92	−0.82	4.45	+0.78	3.77	+1.43	2.78	+0.65	2.16	+0.52	40.46	+0.65
Clinton	1.89	−0.09	0.95	−1.15	5.89	+3.03	3.53	−0.51	4.84	−0 60	5.50	+0.77	2.21	−1.73	2.05	−1.31	4.00	+0.18	3.74	+0.93	2.51	+0.63	2.65	+0.92	39.76	+1.07
Harrisonville	0.35	−1.25	0.69	−1.33	3.17	+0.48	2.33	−1.06	2.70	−2.11	5 71	+1.25	3.20	−0.58	1.39	−2.76	6.34	+1.98	5.33	+2.74	1.81	−0.14	1.19	−0.59	34.21	−3.37
Joplin	2.73	+0.71	1.08	−1.15	....	......	4.25	0.00	7.18	+2.02	8.41	+3.07	4.45	+0.04	1.65	−2.61	3.39	+0.14	6.49	+3.19	3.80	+1.28	3.26	+1.44	.....	....
Lamar	1.88	+0.18	1.22	−1 01	3.42	+0.52	2.71	−1.44	7.86	+2.40	6.15	+1.19	2.77	−1.47	0.60	−3.58	8.41	+4.17	6.04	+2.91	2.47	+0.23	3.32	+1.37	46.85	+5.47
Lamonte	0.54	−1.24	0.79	−1.12	4.49	+1.89	5.01	+1.24	2.71	−2.24	9.11	+4.62	5.70	+1.70	2.52	−1.20	4.46	−0.04	2.93	+0.60	1.79	−0.11	2.45	+0.79	42.50	+4.89
Marshall	0.42	−1.40	0.66	−1.18	3.72	+1.01	4.30	+0.61	2.52	−2.34	9.03	+4.71	6.01	+2.05	1.73	−1.93	5.61	+0.73	2.21	−0.37	2.49	+0.41	1.67	+0.01	40.37	+2.31
Nevada	1.84	−0.13	0.70	−1.38	4.32	+1.33	1.96	−1.83	2.70	−3.02	9.36	+4.25	3.91	−0.02	1.53	−1.98	5.02	+0.86	4.28	+1.20	2.02	+0.14	2.94	+1.08	40.58	+0.50
Osceola	1.48	−0.64	1.80	+0.01	4.08	+1.15	1.92	−2.13	3.04	−2.91	6.85	+2.10	5.17	+1.13	2.23	−1.39	3.99	−0.52	3.64	+0.81	3.08	+0.30	2.66	+0.44	39.94	−1.65
Warrensburg	....	......	....	......	2.53	−0.01	3.63	+0.43	3.01	−1.65	8.02	+3.26	2.73	−1.22	2.10	−1.49	7.88	+4.29	3.82	+1.27	1.91	+0.13	2.35	+0.55	... .	......
Warsaw	2.60	+0.22	1.50	−1.06	4.50	+1.27	3.08	−1.14	2.66	−2.57	6.25	+1.08	3.08	−1.22	2.16	−2.13	5.43	+1.11	3 60	+0.29	2.40	−0.01	2.86	+0.54	40.12	−3.62
Waverly	0.29	......	0.45	......	4.38	......	3.11	−1.18	2.35	−2.96	8.15	+3.03	10.29	+6.93	2.40	−1.59	5.93	+0.99	2.81	+0.73	1.74	−0.10	2.69	+1.66	44.59	......
Northwest Plateau																										
Albany	....	......	....	......	....	......	....	......	1.97	......	3.48	......	4.01	......	5.04	......	5.37	.....	2.03	......	0.69	......	0.55	......	.....	......
Avalon	0.74	−1.25	0.51	−1.66	4.35	+1.47	2.35	−1.12	2.20	−2.83	7.90	+3.54	4.95	+0.84	8.20	+4.59	6.30	+1.24	3.20	+0.25	2.20	+0.23	1.63	+0.12	44.53	+6.42
Bethany	0.53	−0.92	0.30	−1.26	3.26	+1.07	2.98	−0.24	1.84	−3.14	5.45	+0.97	1.90	−2.61	....	......	3.68	−0.18	2.27	+0.06	0.81	−0.96	...	.....	.....	......
Chillicothe	0.59	−1.49	0.18	−2.35	3.28	+0.81	2.03	−2.41	1.88	−2.83	3.90	−1.17	5.78	+1.20	5.97	+1.31	4.62	−1.12	2.34	−1.11	1.74	−0.59	0.72	−0.93	33.03	*10.68
Conception	0.24	−0.81	0.11	−1.15	1.82	+0.12	2.44	−0.37	3.05	−1.72	4.89	+0.34	5.52	+1.22	6.19	+2.71	6.44	+2.59	2.15	−0.30	0.43	−0.93	0.25	−0.74	33.53	+0.96
Edgerton	0.29	−1.19	0.16	−1.54	1.57	−0.85	2.20	−1.34	3.21	−2.24	3.73	−1.38	2.06	−2.74	1.73	−2.11	4.20	+0.92	3.18	+0.93	1.06	−0.41	0.59	−0.74	23.98	*12.69
Grant City	0.16	−0.86	0.36	−0.77	2.24	+0.29	3.29	+0.23	2.20	−2.53	7.27	+2.72	0.58	−4.58	5.31	+1.68	5.21	+1.22	2.02	−0.70	0.60	−1.01	0.26	−0.90	29.50	−5.21
Kansas City	0.16	−0.97	0.36	−1.23	3.35	+0.53	1.84	−1.45	2.25	−2.86	6.51	+1.85	3.40	−1.44	2.88	−1.87	9.61	+5.85	4.14	+1.93	1.66	−0.19	1.12	−0.24	37.28	−0.09
Kidder	0.80	−0.63	0.37	−1.26	3.23	+1.00	1.70	−1.34	1.39	−3.82	3.16	−1.20	6.88	+2.95	5.87	−1.96	7.29	+3.05	2.89	+0.27	1.51	−0.33	0.57	−0.73	35.66	−4.00
Lexington	0.48	−1.09	0.37	−1.63	3.93	+1.56	2.52	−0.84	2.49	−2.57	4.41	−0.36	5.21	+0.49	2.25	−0.98	5.99	+1.55	3.19	+0.62	1.75	−0.10	2.56	+0.84	35.15	−2.51
Liberty	0.24	−1.15	0.23	−1.71	2.61	+0.06	1.90	−1.51	3.22	−1.76	8.84	+4.14	2.33	−2.01	1.46	−2.47	5.87	+1.43	3.64	+1.19	2.06	+0.28	0.97	−0.41	33.37	−3.92
Maryville	0.23	−0.96	0.22	−1.28	2.40	+0 51	3.10	+0.19	2.34	−3.41	4.11	−0.52	2.81	−2.58	5.11	+1.25	5.35	+1.14	2.00	−0.67	0.27	−1.38	0.36	−0.69	28.30	−8.40
Oregon	0.12	−1.36	0.10	−1.60	3.01	+0.98	2.57	−0.72	2.71	−2.15	4.67	−0.06	2.13	−2.19	3.47	−0.50	8.50	+4.76	1.96	−0.60	0.26	−1.43	0.36	−1.08	29.86	−5.95
St. Joseph	0.26	−0.85	0.20	−1.14	2.63	+0.62	2.21	−0.76	2.80	−1.57	3.96	−0.66	2.24	−1.49	4.34	+0.73	5.02	+1.56	2.69	+0.12	0.68	−1.12	0.35	−0.70	27.38	−5.26
Tarkio	0.15	−0.71	0.18	−0.88	2.48	+0.76	3.03	−0.14	2.81	−1.85	3.73	−1.08	0.24	−3.47	5.20	+1.33	3.76	+0.20	1.64	−0.93	0.30	−1.15	0.57	−0.35	24.03	−8.27
Trenton	0.97	−0.59	0.20	−1.48	3.81	+1.57	2.80	−0.47	2.49	−2.85	8.07	+3.77	2.50	−1.83	7.19	+3.57	4.65	+0.39	2.59	+0.03	1.49	−0.31	1.25	−0.10	38.01	+1.70

† Indicates plus. * Indicates minus.

Monthly and Annual Mean Temperatures for the Year 1923, with Departures.

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Northeast Plain.																										
Brunswick	35.7	+ 8.9	26.8	− 1.7	37.4	− 3.7	53.4	− 1.0	63.0	− 1.3	74.8	+ 1.6	79.6	+ 3.9	77.4	+ 3.6	69.0	+ 2.3	52.7	− 2.5	44.2	+ 2.7	38.2	+ 7.6	54.4	+ 1.7
Clifton Hill	37.0	+ 8.1	26.8	− 0.5	39.6	− 1.0	53.2	− 0.4	62.0	− 2.2	72.0	− 1.0	76.6	+ 0.2	75.7	− 0.5	66.4	− 2.5	49.1	− 8.1	42.6	− 1.2	37.3	+ 6.2	53.2	− 0.5
Columbia	38.9	+ 9.1	28.9	− 1.5	39.6	− 1.8	53.3	− 1.0	62.6	− 1.9	72.9	− 1.6	77.3	− 0.1	76.2	+ 1.5	68.2	+ 0.4	52.4	− 2.4	45.5	+ 3.0	40.2	+ 7.3	54.7	+ 1.2
Downing	34.2	......	26.2	......	36.2	......	52.8	......	62.0	......	73.2	......	78.4	......	75.9	......	67.5	......	52.0	......	45.2	......	37.2	......	53.4	......
Fayette	33.4^c	+ 6.0	23.0	− 7.0	34.2	− 7.5	49.8	− 5.1	59.2	− 5.1	70.4	− 2.9	74.6	− 2.8	73.6	− 2.5	64.9	− 3.4	48.8	− 7.9	41.2^a	− 1.1	34.4	+ 3.2	50.6	− 3.0
Fulton	39.2	+ 9.3	30.2	− 2.0	41.5	− 2.3	54.3	− 0.1	63.0	− 2.0	73.0	− 0.6	76.7	− 1.2	79.3	+ 2.8	69.0	+ 0.1	52.3	− 5.3	45.3	+ 0.8	40.1	+ 6.4	55.3	+ 0.4
Hannibal	36.5	+ 9.4	27.0	− 2.7	37.8	− 3.2	52.6	− 0.8	62.5	− 1.1	73.7	+ 1.2	78.2	+ 1.4	75.6	+ 0.6	67.4	− 0.3	51.6	− 4.4	44.6	+ 2.5	40.2	+ 8.7	54.0	+ 1.0
Jefferson City	38.7	+ 8.9	29.0	− 1.9	41.1	− 2.1	54.4	− 1.7	62.4	− 2.5	73.9	− 0.1	78.3	+ 0.2	77.4	+ 0.7	69.3	+ 0.2	52.5	− 4.2	45.4	+ 1.3	40.6	+ 7.8	55.2	+ 0.5
Kirksville	33.2	+ 8.3	25.4^a	+ 0.5	35.5	− 3.1	50 8	− 1.1	61.0	− 1.5	71.8	− 0.4	76.3	+ 0.2	74.0	0.0	66.0	0.0	50.6	− 4.1	43.2	+ 2.7	37.2	+ 7.6	52.1	+ 0.6
Louisiana	37.5	+ 9.6	30.2	+ 1.8	42.4^a	+ 0.1	53.2	− 0.5	63.2	− 0.6	74.7	+ 2.6	78.1	+ 1.7	76.1	+ 1.1	66.8	− 1.1	52.6	− 3.7	46.0	+ 1.8	42.4	+10.9	55.3	+ 1.8
Macon	33.4	+ 4.7	25.0	− 3.1	35.5	− 6.7	51.3	− 2.6	62.8	− 1.1	71.9	− 1.1	77.6	+ 0.2	75.6	− 0.7	65.6	− 2.7	50.2	− 6.2	42.3	− 1.1	36.6	+ 6.2	52.3	− 1.2
Mexico	35.8	+ 7.2	27.0	− 1.7	37.9	− 3.4	51.5	− 2.8	61.0	− 3.3	72.9	− 0.8	76.8	− 0.5	75.5	− 0.6	67.0	− 1.6	50.7	− 5.7	43.2	+ 0.2	38.6	+ 6.8	52.3	− 0.4
Palmyra	34.4	+ 6.0	25.3	− 1.5	37.8	− 1.6	51.4	− 3.2	....	......	....	......	....	......	....	......	....	......	....	......	44.0	+ 0.2	38.4	+ 8.8	....	......
St. Catharine	35.8	+ 9.4	27.5	− 1.5	37.6	− 4.9	51.7	+ 0.3	62.5	0.0	72.4	− 0.1	77.4	+ 1.3	74.3	+ 0.2	66.6	− 1.2	51.4	− 4.5	43.6	+ 0.7	38.0	+ 8.3	53.2	+ 0.6
St. Charles	38.6	+ 7.4	30.2	− 1.5	42.2	− 1.3	54.6	− 1.0	63.6	+ 0.6	74.1	− 0.1	79.0	+ 0.9	78.2	+ 1.5	68.8	+ 0.9	54.2	− 3.9	46.0	+ 0.5	44.4	+ 9.5	56.2	+ 1.0
St. Louis(1)	39.5	+ 8.7	30.4	− 4.1	41.4	− 2.4	55.0	− 0.8	64.1	− 2.8	75.2	+ 0.4	80.6	+ 2.0	77.9	+ 0.6	69.0	− 1.1	54.9	− 3.5	47.9	+ 2.8	44.4	+ 9.6	56.7	+ 0.7
St.Louis(2)	39.1	+ 8.9	29.5	− 2.7	41.0	− 2.6	54.5	− 0.7	63.6	− 2.5	74.4	− 0.5	80.2	+ 0.1	77.2	0.0	68.6	− 1.6	54.3	− 4.6	46.8	+ 0.3	43.4	+ 9.1	56.1	+ 0.3
Steffenville	36.0	+ 7.6	27.4	+ 0.1	38.6	− 2.8	52.5	− 0.7	63.4	− 0.7	74.4	+ 1.2	79.8	+ 1.8	76.4	− 0.3	69.6	+ 0.5	55.7	− 2.0	46.0	+ 2.2	39.6	+ 9.0	55.0	+ 1.3
Unionville	32.6	+ 9.3	25.8	+ 1.5	35.4	− 2.0	51.2	+ 0.1	61.0	− 1.4	72.0	+ 0.2	77.7	+ 1.1	73.2	− 1.8	66.1	− 1.1	50.9	− 4.5	42.8	+ 2.6	36.5	+ 9.1	52.1	+ 0.9
Warrenton	36.8	+ 7.6	27.2	− 2.2	38.8	− 2.7	53.2	− 1.6	62.0	− 3.0	73.6	0.0	78.4	+ 0.6	77.4	+ 1.0	68.8^a	0.0	53.9	− 1.7	45.4	+ 2.5	41.7	+ 9.7	54.8	+ 0.8
Keokuk, Ia	33.9	+ 9.0	25.1	− 3.2	36.0	− 2.9	51.4	− 0.9	62.0	− 1.8	74.0	+ 1.5	78.8	+ 1.9	74.9	− 0.1	67.1	− 0.4	51.2	− 4.2	43.6	+ 2.5	39.2	+ 9.6	53.1	+ 0.9
Section Means	36.3	+ 8.3	27.3	− 1.7	38.3	− 3.1	52.7	− 1.3	62.3	− 1.8	73.2	0.0	78.0	+ 0.7	76.1	+ 0.4	67.6	− 0.7	52.1	− 4.4	44.5	+ 1.3	39.5	+ 8.1	54.0	+ 0.5
Southeast Lowlands.																										
Caruthersville	47.0	+ 8.0	40.7	+ 1.8	49.9	− 1.3	62.2	+ 2.0	70.0	+ 0.5	80.1	+ 2.3	84.2	+ 3.6	84.4	+ 4.7	75.2	+ 1.8	61.6	− 0.1	52.2	+ 2.3	49.8	+ 9.8	63.1	+ 2.9
Doniphan	43.4	+ 7.2	36.0	− 2.1	45.9	− 3.5	58.2	+ 0.2	64.7	− 2.2	75.7	+ 0.9	79.2	+ 1.0	79.7	+ 2.3	70.6	− 0.2	55.0	− 3.4	47 0	− 0.6	46.4	+ 9.0	58.5	+ 0.7
Jackson	41.1	+ 7.1	33.9	− 1.6	44.8	− 2.4	56.6	− 0.3	64.0	− 1.8	75.6	+ 1.5	79.4	+ 2.0	78.3	+ 2.1	69.7	− 0.2	55.0	− 3.0	47.4	+ 0.7	46.1	+ 9.5	57.7	+ 1.2
Marble Hill	42.4	+ 7.6	34.8	− 0.5	45.2	− 2.2	56.6	− 0.1	63.4	− 2.3	75.5	+ 1.6	83.0	+ 5.7	78.8	+ 1.8	70.2	− 0.2	55.6	− 2.4	48.0	+ 3.6	46.8	+10.6	58.4	+ 2.0
Poplar Bluff	43.1	+ 6.5	36.2	− 0.1	45.2	− 3.6	57.4	− 1.8	65.7	− 2.3	76.0	+ 0.6	80.6	+ 1.9	80.8	+ 2.8	71.2	− 0.1	56.8	− 3.5	49.4	+ 2.0	47.8	+11.0	59.2	+ 1.0
Cairo, Ill	43.4	+ 8.5	34.8	− 3 7	44.7	− 2.5	57.8	− 0.3	65.0	− 3.4	75.4	− 0.9	79.8	+ 0.2	78.4	+ 0.6	70.6	− 0.9	57.2	− 3.2	49.1	+ 1.8	47.8	+10.0	58.7	+ 0.6
Section means	43.4	+ 7.5	36.1	− 1.0	46.0	− 2.6	58.1	− 0.1	65.5	− 1.9	76.4	+ 1.0	81.0	+ 2.4	80.1	+ 2.4	71.2	0.0	56.9	− 2.6	48.9	+ 1.6	47.4	+ 9.9	59.3	+ 1.4
Ozark Plateau																										
Arcadia	39.2	+ 7.1	31.0	− 2.5	41.2	− 3.6	54.0	− 1.3	61.0	− 3.6	72.0	0.0	76.3	+ 0.4	76.0	+ 1.5	67.0	− 0.6	52.2	− 3.9	45.4	+ 1.4	42.8^d	+ 7.5	54.8	+ 0.2
Birchtree	42.1^a	+ 7.7	33.6^a	− 1 3	43.6	− 3.8	56.6	− 0.2	62.6	− 2.6	72.8^b	+ 0.1	77.4	+ 1.0	78.4	+ 2.5	....	......	....	......	....	......	45.5	+ 9.7	....	......
Bolivar	42.0	+ 8.1	33.0	− 1.4	42.6	− 3.5	53.0	− 3.1	61.7	− 3.2	73.6	+ 0.8	76.6	− 0.5	77.6	+ 0.6	69.3	− 0.3	51.0	− 7.5	46.8	0.0	41.6^a	+ 5.8	55.7	− 0.4
Dean	38.7	+ 2.5	31.0	− 3.8	39.7	− 9.2	53.1^d	− 4.2	57.8	− 8.0	66.0^a	− 7.0	....	......	....	......	....	......	....	......	....	......	....	......	....	......
Eldon	40.3^b	+ 8.9	31.4^a	− 0.5	42.0	− 1.5	54.2^j	− 1.2	61.4^b	− 3.1	73.6	+ 0.4	77.8	+ 0.8	77.8^b	+ 1.4	67.8	− 1.5	52.8	− 4.9	45.4	+ 0.2	41.8	+ 7.5	55.5	+ 0.5
Farmington	40.0	+ 7.2	32.2	− 3.4	43.4	− 3.5	56.0	− 0.9	62.9	− 0.9	74 7	+ 2.1	78.1	+ 2.8	76.7	+ 1.9	67.4	− 1.9	53.0	− 3.4	46.6	+ 2.3	44.6	+ 7.6	56.3	+ 0.8
Gano	39.6	+ 6.7	30.3	− 4.2	41.5	− 5.4	54.4	− 1.2	60.8	− 4.5	71.2	− 1.6	77.3	+ 0.4	77.7	+ 1.6	67.3	− 2.2	51.4	− 6.6	44.2	− 2.6	41.6	+ 6.4	54.8	− 1.1
Goodland	39.4	+ 6.8	32.2	− 0.7	42.2	− 2.7	53.2	− 1.4	61.2	− 3.3	71.8	− 0.3	76.2	+ 0.6	77.8	+ 3.3	68.6	+ 1.3	53.0	− 2.8	45.6	+ 1.0	42.8	+ 8.4	55.3	+ 0.8
Greenville	41.8	......	35.3	......	44.8	......	56.2	......	64.5	......	74.4	......	78.0	......	78.2	......	70.0	......	54.2	......	46.8	......	46.8	......	57.5	......
Hollister	46.5	+10.5	38.5	+ 0.5	45.4	− 3.3	56.8	− 2.9	62.6	− 4.7	73.4	− 2.3	79.2^d	− 0.2	80.4	+ 2.5	71.0	− 0.6	56.2	− 4.2	49.8	+ 1.6	46.4	+ 6.7	58.8	+ 0.2
Houston	41.8	+ 9.2	32.8	− 1.4	43.0	− 3.6	53.8	− 2.0	61.5	− 3.4	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......
Koshkonong	45.3	+ 8.8	36.4	− 1.1	45.8	− 3.8	58.8	+ 1.0	64.6^c	− 2.2	74.4	+ 0.1	78.6	+ 0.3	80.1	+ 2.4	70.6^b	− 0.3	56.4^a	− 3.6	48.6	− 0.8	48.2	+10.6	59.0	+ 1.0
Lebanon	40.6^b	+ 7.6	29.8	− 4.1	39.6^b	− 5.8	54.1	− 1.6	62.4	− 3.2	73.6	+ 0.5	78.0	+ 1.1	77.6	+ 1.3	68.4	− 1.1	49.6^b	− 8.4	44.4	− 1.6	41.0	+ 6.0	54.9	− 0.8
Lockwood	43.4	+10.1	33.7	− 1.8	42.2	− 5.7	55.8	− 0.2	64.2	− 0.4	74.2	+ 0.2	78.2^d	+ 0.6	80.6	+ 3.4	70.6	− 0.7	54.6	− 4.0	47.6	− 0.1	43.4	+ 7.9	57.4	+ 0.8
Mountain Grove	40.1	+ 6.9	31.0	− 2.8	39.8^a	− 6.2	54.0	− 0.2	61.8	− 2.1	72.2	+ 0.6	76.9	+ 0.9	78.3	+ 3.2	68 7	+ 0.3	53.2	− 4.4	45.0	− 1.6	42.2	+ 7.9	55.3	+ 0.2
Neosho	45.0	+ 9.9	35.7	− 0.9	45.5	− 2.7	58.0	0.0	65.4	− 0.8	75.5	+ 1.6	78.4	+ 0.8	81.2	+ 4.3	71.6	+ 1.3	54.9	− 4.3	48.0	+ 0.8	43.9	+ 7.2	58.6	+ 1.4
Rolla	42.0	+10.7	32.0	− 3.2	43.8	− 1.2	56.4	+ 1.4	64.0	− 0.5	74.4	+ 1.6	79.0	+ 1.6	79.2	+ 3.4	69.4	+ 1.4	53.6	− 2.3	47.1	+ 2.2	44.2	+10.6	57.1	+ 2.1
Seligman	45.6	+10.9	35.4	− 0.8	44.2	− 2.0	57.6	+ 1.8	63.0^b	− 1.9	73.1	+ 0.6	77.8	+ 1.2	81.2	+ 5.6	69.8	+ 1.0	....	......	....	......	45.2	+ 8.6	....	......
Seymour	41.8	+ 7.5	31.9	− 0.5	42.8	− 2.4	55.0	− 0.4	62.1	− 2.0	71.8	− 0.2	75.5	0.0	76.0	+ 1.0	67 6	− 1.0	52 5	− 5.0	46.2	+ 0.1	44.7	+10.3	55.7	+ 0.6
Springfield	42.7	+11.4	32.0	− 1.6	41.6	− 1.9	55.2	− 0.5	62.4	− 2.2	72.8	+ 0.5	77.2	+ 0.8	78.6	+ 3.8	69.2	+ 1.3	53 8	− 3.5	47.0	+ 2.6	42.8	+ 7.3	56.3	+ 1.5
Section Means	41.9	+ 8 3	33.0	− 1.9	42.7	− 3.8	55.4	− 0.8	62.4	− 2.8	72.9	+ 0.1	77.6	+ 0.7	78.5	+ 2.6	69.1	− 0.2	53.3	− 4.6	46.5	+ 0.4	43.9	+ 8.0	56.5	+ 0.5
Southwest Plain.																										
Amoret	39.6	+ 9.1	29.9	− 3.8	41.2^d	− 2.7	54.2	− 0.3	61.9	− 1.6	72.8	− 0.7	76.7	− 0.9	76.6	+ 0.2	69.2	+ 0.5	52.2	− 4.9	45.2	− 0.3	43.0^c	+10.5	55.2	+ 0.4
Appleton City	41.4	+10.1	31.9	− 0.4	42.5	− 2.1	55.2^e	− 0.6	64.8^d	− 0.3	74.4	− 0.4	78.5	+ 0.2	78.5	+ 0.7	70.5	+ 0.2	54.2	− 4.9	47.3	+ 1.2	41.2	+ 6.9	56.7	+ 0.9
Clinton	39.6	+ 8.2	28.5^a	− 3.4	43.4	− 0.9	57.8	+ 2.1	66.1	+ 0.9	75.8	+ 2.4	81.1^a	+ 3.6	80.8	+ 4.0	73.5^a	+ 3.3	56.0	− 2.6	49.2	+ 1.9	42.4^a	+ 8.0	57.8	+ 2.2
Harrisonville	37.8	+10.6	28.3	− 1.4	38.3	− 2.6	53.6	− 0.2	61.8	− 2.2	72.8	− 0.6	77.6	− 0.2	77.0	+ 1.2	68.7	+ 0.4	53.0	− 3.0	45.4	+ 3.0	38.4	+ 7.2	54.4	+ 1.0
Lamar	35.0	+ 2.6	....	......	41.6^e	− 4.6	55.4	− 1.2	63.1	− 2.8	75.2	+ 0.8	79.6	+ 1.1	81.4	+ 3.9	70.0	− 0.6	52.5	− 6.4	45.8	− 0.8	40.2	+ 5.0	....	......
Lamonte	38.8	+10.1	29.8	− 1.8	40.3	− 3.4	54.4	− 0.7	63.3	− 1.4	74.3	0.0	78.4	− 1.1	78.0	+ 1.3	70.2	+ 0.1	53.8	− 4.2	45.8	+ 1.4	39.0	+ 4.8	55.5	+ 0.4
Marshall	37.4^a	+ 9.8	30.0^a	+ 0.5	41.0^b	− 1.5	53.6^b	− 0.8	63.0^c	− 1.1	73.2^a	− 0.7	78.2^c	+ 0.9	76.8^a	+ 1.2	69.8^a	+ 1.5	51.6	− 5.0	46.3^a	+ 0.7	39.7^a	+ 8.1	55.1	+ 1.2
Nevada	41.6	+ 9.9	32.8	+ 0.9	43.7	− 0.6	57.3	+ 2.2	63.6	− 1.0	73.5	− 0.1	78.2	− 2.0	79.5	+ 2.6	70.6	+ 1.5	54.9	− 2.4	46 8	+ 2.4	41.2	+ 7.3	57.0	+ 1.8
Warrensburg	....	......	....	......	39.9^c	− 3.7	55.6	− 0.5	63.7	− 1.6	75.0	+ 0.8	78.9	+ 0.1	79.6	+ 2.6	71.4	+ 1.3	54.6	− 3.5	47.2	+ 2.3	40.6	+ 7.2	....	......
Warsaw	42.2	+ 9.4	32.2	− 1.6	43.3	− 3.6	55.8	0.0	64.0	− 1.8	74.5	+ 0.8	78.4	+ 0.1	79.8	+ 2.4	70.8	+ 0.8	53.6	− 5.5	47.2	− 0 3	42.4	+ 7.6	57.0	+ 0.7
Section Means	39.3	+ 8.7	30.5	− 1.3	41.5	− 2.6	55.3	+ 0.1	63.5	− 1.3	74.1	+ 0.3	78.5	+ 0.2	78.8	+ 2.0	70.5	+ 0.9	53.6	− 4.2	46.8	+ 1.2	40.8	+ 7.3	56.1	+ 1.1
Northwest Plateau.																										
Avalon	36.6	+ 8.0	29.1	+ 0.3	38.1	− 3.2	53.8	+ 0.1	63.9	+ 0.4	73.8	+ 0.2	78.3	− 0.8	75.6	− 1.0	68.0	− 1.6	53.4	− 5.1	45.8	+ 1.9	38.6	+ 6.2	54.6	+ 0.4
Bethany	33.8	+ 9.1	27.0	+ 0 8	37.4	− 1.5	51.9	+ 0.7	61.6^a	− 1.0	72.8	+ 0.4	78.2	+ 2.2	....	......	67.2	+ 0.2	51.6	− 3.1	43.0	+ 0.1	....	......	....	......
Chillicothe	33.9	+ 3.9	25.6	− 6.2	35.4	− 5.0	50.7	− 3.8	61.6	− 5.5	72.6	− 1.6	76.8	− 3.4	74.4	− 1.7	66.4	− 3.2	50.5	− 7.7	42.0	− 0.6	35.8	+ 0.2	52.1	− 2.9
Conception	34.0	+ 9.2	27.6	+ 1.1	36.4	− 2.0	52.7	+ 0.4	61.7	− 0 3	73.1	+ 1.5	78.3	+ 1.9	74.6	0.0	67.2	0.0	51.5	− 4.0	43.7	+ 2.3	36.2	+ 6.9	53.1	+ 1.3
Edgerton	34.0^c	......	26.6^d	......	36.7^f	......	49.8^h	......	59.6^d	......	70.8^d	......	73.8^d	......	73.6^b	......	66.0^d	......	51.8^e	......	43.4^a	......	36.7^c	......	51.9	......
Grant City	34.9	+10.3	28.6	+ 2.0	38.0	− 1.9	54.2	+ 1.9	63.0	+ 0.9	73.8	+ 2 5	78.0	+ 1.8	75.4	+ 0.5	68.3	+ 1.3	51.9	− 3.5	45.6	+ 3.2	37.0	+ 9.3	54.1	+ 2.3
Kansas City	39.0	+12.8	30.2	+ 0.3	39.4	− 1.4	54.1	− 0.2	63.0	− 1.5	74.1	+ 1.1	79.3	+ 1.7	77.3	+ 1.5	69.2	+ 1.7	53.6	− 2.2	47.0	+ 5.5	39.0	+ 7.5	55.4	+ 2.2
Kidder	36.3	+ 9.8	26.5	− 0.2	36.1	− 4.3	51.6	− 1.3	61.8	− 1.3	72.6	+ 0.2	77.4	+ 0.5	74.7	− 1.0	67.0	− 0.7	51.6	− 4.8	43.6	− 0.4	35.9	+ 6.2	52.9	+ 0.2
Lexington	38.5	+11.0	31.6	+ 2.2	40.8	− 2 1	55.2	+ 1.1	63.2	− 1.2	73.6	+ 0.8	78.0	+ 0.9	76.7	+ 0.7	68.1	− 0.4	53.8	− 3.7	46.4	+ 2.4	39.6	+ 8.1	55.5	+ 1.7
Liberty	38.6	+ 9.8	30.5	+ 1.1	41.8	− 0.3	54.2	− 1.3	63.6	− 1.2	72.2^b	− 1.8	79.0^l	+ 0.9	77.4	+ 0.4	69.4	0.0	52.8	− 4.7	45.6	+ 1.6	37.5	+ 5.7	55.2	+ 0.6
Maryville	34.4	+12.2	27.2	+ 3.9	36.7	+ 0.4	52.6	+ 2.0	61.2	+ 0.1	72.2	+ 2.6	77.4	+ 1.8	73.2	− 0.4	65.6	+ 0.2	50.9	− 2.4	44.1	+ 5.1	36.3	+10.0	52.6	+ 2.8
Oregon	35.0	+11.2	27.6	− 0.4	36.9	− 2.0	52.6	− 0.1	61.0	− 2.2	72.2	− 0.1	77.1	+ 1 5	74.2	− 0.8	66.5	− 0.5	50.9	− 4.0	43.6	+ 3.3	36.6	+ 8.1	52.8	+ 1.0
St. Joseph	36.6	+ 9.8	28.8	− 1.0	37.4	− 5.3	53.8	0.0	62.2	− 2.3	74.2	− 0.1	79.2	+ 0 1	76.2	− 1.0	68.6	− 0.7	52.4	− 4.5	45.0	+ 1.3	37.2	+ 7.2	54.3	+ 0.2
Tarkio	33.2	+11.2	26.6	− 0.2	35.0	− 3.8	51.7	− 1.6	60.9	− 2.4	71.7	− 1.0	77.4	+ 0.4	74.6	− 1.0	67.6	+ 1.0	50.6	− 4.9	42.0	+ 1.4	35.0	+ 9.1	52.2	+ 0.5
Trenton	34.9	+ 7.9	28.0	+ 0.3	36.9	− 3.3	52.4	− 0.8	62.2	− 1.6	73.2	+ 0.6	77.4	+ 0.5	74.4	− 0.8	66.8	− 0.6	51.0	− 5.3	43.6	+ 1.2	37.0	+ 7.4	53.2	+ 0.4
Section Means	35.2	+ 9.7	28.1	+ 0.3	37.5	− 2.6	52.8	− 0.2	62.0	− 1.4	72.8	+ 0.4	77.7	+ 0.5	75.2	− 0.4	67.5	− 0.2	51.9	− 4.3	44.3	+ 2.0	37.0	+ 7.1	53.6	+ 0.8
State means	39.2	+ 8.5	30.2	− 1.2	40.4	− 3.1	54.2	− 0.6	62.7	− 1.9	73.5	+ 0.2	78.2	+ 0.7	77.3	+ 1.3	68.7	− 0.3	53.0	− 4.4	45.1	+ 0.6	41.0	+ 7.1	55.3	+ 0.5

Letters of alphabet indicate number of days missing from report: thus [a] one day; [b] two days, etc.

SUMMARY—*Continued from Page 49.*

SEPTEMBER.—A month of about normal temperature, and somewhat wetter than usual, particularly over the western part of the State. The outstanding feature was a general cool spell about the middle of the month that resulted in light frost on the 14th, and 16th, but without serious injury to vegetation. The general weather was favorable to farming interests.

OCTOBER.—As compared with the usual October this month was not so pleasant, being rather cloudy, wet, and chilly. Notwithstanding the rather frequent rainy spells, the seasonal farm work made good progress. Pastures continued green and plentiful. The first killing frost occurred on the 19th, to 21st, somewhat later than the average.

NOVEMBER.—Comparatively calm and settled weather, the normal type for this month, prevailed. A general snowstorm on the 29th was the outstanding feature. Pleasant and favorable weather for outdoor occupations. Winter wheat did well; and pastures were fine.

DECEMBER.—Unusually mild and open until the last two days. The fourth consecutive mild December, the warmest of the four, and the warmest of all other Decembers since 1889. Except the last two days, there were no characteristic winter spells, no sudden drop in temperature, no high winds, and almost no sleet or snow. There was, however, a marked change to winter on the 30th, and 31st generally. Winter wheat made good root growth, and kept a good color. Livestock kept in the open most of the time.

KILLING FROSTS, 1923.

Stations.	Last in Spring.	First in Autumn.	Days in Growing Season.
Northeast Plain.			
Brunswick	April 17	Oct. 21	187
Clifton Hill	May 9	Oct. 21	165
Columbia	April 16	Oct. 21	188
Downing	May 9	Oct. 20	164
Fayette	April 18	Oct. 20	185
Fulton	April 18	Oct. 21	186
Hannibal	April 8	Oct. 21	196
Jefferson City	April 16	Oct. 21	188
Kirksville	April 17	Oct. 20	186
Louisiana	April 18	Oct. 11	176
Macon	April 17	Oct. 20	186
Mexico	April 18	Oct. 21	186
Palmyra	April 16	....	....
St. Catharine	May 9	Oct. 20	164
St. Charles	April 9	Oct. 21	195
St. Louis (1)	April 8	Oct. 31	206
St. Louis (2)	April 8	Oct. 31	206
Steffenville	May 11	Oct. 20	162
Unionville	May 9	Oct. 20	163
Warrenton	April 16	Oct. 21	188
Keokuk, Iowa	April 16	Oct. 20	187
Southeast Lowlands			
Caruthersville	April 1	Oct. 31	213
Doniphan	April 6	Oct. 21	198
Jackson	April 18	Oct. 20	185
Marble Hill	May 10	Oct. 20	163
Poplar Bluff	April 9	Oct. 22	196
Cairo, Ill.	April 1	Oct. 31	213
Ozark Plateau.			
Arcadia	May 10	Oct. 20	163
Birchtree	April 9	....	....
Bolivar	April 9	Oct. 20	194
Dean	May 9	Oct. 21	165
Eldon	April 16	Oct. 21	188
Farmington	April 18	Oct. 21	186
Gano	April 17	Oct. 21	187
Goodland	May 10	Oct. 20	163
Greenville	April 18	Oct. 20	185
Ozark Plateau (continued)			
Hollister	May 9	Oct. 21	165
Houston	April 19	....	..
Koshkonong	April 9	Oct. 22	196
Lebanon	May 9	Oct. 22	166
Lockwood	May 9	Oct. 21	165
Mountain Grove	April 17	Oct. 21	187
Neosho	May 9	Oct. 20	164
Rolla	April 18	Oct. 21	186
Seligman	May 9	....	....
Seymour	May 10	Oct. 20	163
Springfield	April 8	Oct. 21	196
Southwest Plain.			
Amoret	May 9	Oct. 21	165
Appleton City	April 8	Oct. 22	197
Clinton	April 8	Oct. 22	197
Harrisonville	May 9	Oct. 30	174
Lamar	April 9	Oct. 21	195
Lamonte	May 9	Oct. 21	165
Marshall	April 16	Oct. 21	188
Nevada	April 9	Oct. 24	198
Warrensburg	April 16	Oct. 21	188
Warsaw	April 18	Oct. 21	186
Northwest Plateau.			
Avalon	April 16	Oct. 24	191
Bethany	May 9	Oct. 19	163
Chillicothe	April 18	Oct. 20	185
Conception	April 17	Oct. 20	186
Edgerton	May 13	Oct. 21	191
Grant City	May 9	Oct. 19	163
Kansas City	April 8	Oct. 21	196
Kidder	May 9	Oct. 20	164
Lexington	April 16	Oct. 21	188
Liberty	April 17	Oct. 21	187
Maryville	May 9	Oct. 20	164
Oregon	May 9	Oct. 20	164
St. Joseph	April 8	Oct. 21	196
Tarkio	April 17	Oct. 20	186
Trenton	April 17	Oct. 20	186

Monthly Data of the State for 1923.

Month	Temperature				Precipitation				
	Mean	Departure from Normal	Maximum	Minimum	Mean	Departure from Normal	Greatest	Least	No. Days with .01 or more
January	39.2	+ 8.5	75	3	2.72	+1.81	7.55	0.12	6
February	30.2	− 1.2	75	− 9	1.37	−0.88	4.80	0.10	5
March	40.4	− 3.1	83	−11	4.12	+1.00	8.30	1.57	8
April	54.2	− 0.6	92	14	3.12	−0.74	6.08	1.12	8
May	62.7	− 1.9	97	25	4.59	−0.49	11.31	1.39	12
June	73.5	+ 0.2	103	45	5.48	+1.02	9.36	2.77	11
July	78.2	+ 0.7	105	50	3.07	−0.89	10.29	0.24	6
August	77.3	+ 1.3	108	42	3.99	+0.31	9.55	0.24	8
September	68.7	− 0.3	98	33	4.59	+0.86	11.83	1.23	11
October	53.0	− 4.4	89	17	3.39	+0.64	9.54	0.94	9
November	45.1	+ 0.6	79	14	2.15	−0.20	4.45	0.26	6
December	41.0	+ 7.1	82	− 4	3.06	+1.03	6.33	0.25	8
Year	55.3	+ 0.5	108	−11	41.23	+2.36	11.83	0.10	98

Comparative Annual Data for the State.

Year	Temperature			Precipitation	Year	Temperature			Precipitation
	Mean	Maximum	Minimum			Mean	Maximum	Minimum	
1888	52.9	111	−32	41.22	1907	55.6	109	−15	41.81
1889	54.3	107	− 9	37.91	1908	56.7	102	−10	42.56
1890	54.7	106	−19	35.71	1909	56.7	110	−20	45.16
1891	53.9	108	−11	38.04	1910	55.0	109	−24	36.86
1892	53.4	101	−11	42.76	1911	56.9	113	−19	38.94
1893	52.7	107	−20	38.19	1912	53.6	105	−36	38.68
1894	55.1	111	−35	33.18	1913	56.5	110	−12	37.47
1895	52.9	106	−26	39.30	1914	56.1	109	−18	34.72
1896	55.5	108	−10	44.63	1915	54.8	102	−24	49.62
1897	55.0	108	−16	38.82	1916	55.2	109	−29	40.33
1898	54.4	104	−20	53.67	1917	52.3	107	−23	31.94
1899	54.0	108	−32	37.32	1918	55.5	111	−25	37.16
1900	55.6	105	−16	38.34	1919	55.2	106	−23	40.05
1901	55.5	116	−29	25.28	1920	54.3	105	−10	37.17
1902	54.1	103	−17	44.96	1921	58.2	109	− 8	43.77
1903	53.6	102	−25	40.15	1922	56.8	108	− 6	39.99
1904	53.2	100	−23	41.62	1923	55.3	108	−11	41.23
1905	53.6	103	−40	45.43	Average 36 yrs.	54.8	116	−40	39.76
1906	55.1	101	−13	37.34					

Evaporation Tables.

Columbia* (Weather Bureau)	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
Total evaporation	4.251	4.418	4.714	5.326	4.943	2.543	1.650	1.132	28.977
Total precipitation	4.21	1.97	6.29	3.73	3.92	2.55	3.15	1.35	27.17
Total wind movement	1,516	977	527	362	466	473	603	....	......
Mean temperature	53.3	62.6	72.9	77.3	76.2	68.2	52.4	45.4	63.5
Univ. of Missouri** (Experiment Farm)									
Total evaporation	5.264	5.629	5.928	6.494	6.286	4.090	2.834	1.661	38.136
Total precipitation	4.10	2.17	5.92	3.04	4.20	3.31	2.90	1.44	27.08
Total wind movement	3,056	2,335	1,339	777	860	1,194	1,302	1,383	12,246

* Observations taken at 6:45 a. m. ** Observations taken at 5:30 p. m.

551. 65
UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVIII. COLUMBIA, MO., JANUARY, 1924. No. 1.

GENERAL SUMMARY.

In marked contrast to the prevailing mild weather of December, 1923, January, 1924, was decidedly a winter month. The month opened with a severe cold wave that spread to the southern border of the State. After the 6th, there were a few days of relatively moderate weather, but cold weather again set in on the 11th and continued steadily for ten days or more. One of the outstanding features was frequent and heavy snows. It was the coldest and most wintry-like month since January, 1918. Only seven Junuarys in the past 36 years have been colder.

From 8. p. m. December 30, 1923, to 2 p. m. January 6, 162 consecutive hours, the temperature was below freezing, as based upon the thermograph record at Columbia, Mo., the section center. From 9 p. m. January 4 to 6 a. m. January 6, 34 consecutive hours, temperature did not rise above zero; and from 10:30 a. m. January 10 to 1 p. m. January 14, 99 consecutive hours, temperature did not rise above the freezing point. As compared with other Januarys, there were two with colder spells. In January, 1912, and again in the same month of 1918, zero temperatures prevailed for 52 consecutive hours.

The month was unfavorable for any outdoor work. Fuel, heavy clothing, and transit feeds were favorably affected. Winter wheat was mainly covered by snow. Peach buds apparently were injured in some localities. Highways were mainly firm and hard but slippery.

TEMPERATURE.

The monthly mean temperature for the State, 67 stations reporting, was 24.9°, or 5.5° lower than the 36-year normal. It was the coldest January since 1918, though the present month was not as cold as that January by about 9°. About the same degree of cold prevailed in all sections. The first six days averaged about 16 degrees colder than normal, and about the same as during January, 1918. The period from about the 7th to the 10th of the present month was relatively moderate, but from the 11th to the 21st, inclusive, mostly cold, the daily deficiency being about 11°. The last ten days were moderate, the latter five days of this period being relatively mild, with daily means about 10° above normal. The average number of days with zero or lower was 6, though at some stations in the northern section there were 10 to 15 days with zero cold. The minimum was 25 below zero, which has been equaled once and exceeded three times in January since 1888. There were but three days with minima above freezing. On the 31st, afternoon temperatures were above 60° generally.

PRECIPITATION.

The average for the State, as determined from the records of 104 stations, was 1.54 inches, or about 0.49 inch less than the 56 years' average. By sections, the southwestern plain was a bit wetter than normal, while in the other four sections there was a deficiency, ranging from 0.40 inch in the northwestern plateau to 1.38 inches in the southeastern lowlands. There were only two or three days during each of the three decades on which no precipitation fell; the most frequent and general spell lasted from about the 9th to the 19th. Until the last few days of the month, most of the precipitation was in the form of snow, or sleet.

Snows were frequent and heavy, and covered the ground for about 16 days in northern and western sections. There was appreciable snow everywhere, save in the extreme southeast. From the 11th to the 16th snow fell daily, the heaviest falls occurring on the 15th, as a rule. The total at Brunswick, Chariton County, for the month, was 21 inches, 14 inches falling within a 24-hour period, on the 15th-16th.

WIND.

The prevailing winds were from the southern points, that is, about 45 per cent of the time from the southeast, and south; from the west, and northwest they prevailed about 35 per cent of the time. The total monthly movement, 8 stations equipped with anemometers reporting, was 7,598 miles, an average hourly velocity of 10.2 miles. Brisk to strong winds prevailed on the 4th, 8th, 10th, and 16th.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well placed stations equipped with sunshine recorders reporting, was 168, or 56 per cent of the possible, and about 5 per cent above normal. The sunshine this month was about 7 per cent more than last January.

MISCELLANEOUS PHENOMENA.

Earthquake (tremors).---At Greenville, 9 p. m. on the 31st.
Fogs, dense.---On the 10th, 29th, and 30th.
Halos, solar.---3d, 15th, 17th, and 23d.
Halos, lunar.---14th, 16th, 21st, and 23d.
Sleet.---1st, 2d, 3d, 10th, 15th, 16th, 17th, 18th, 19th, and 24th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Max. velocity. Direction.	Max. velocity. Date.
Columbia	30.24	78	72	176	58	6,407	8.6	30	nw.	4
Hannibal	30.23	76	..	...	..	6,962	9.4	36	sw.	22
Kansas City	30.22	79	66	188	62	8,771	11.8	33	nw.	4
St. Joseph	30.21	87	78	174	58	6,592	8.9	30	nw.	10
St. Louis	30.23	71	63	130	43	10,323	13.9	37	nw.	25
Springfield	30.23	88	75	168	55	8,605	11.6	30	w.	10
Cairo, Ill	30.26	76	67	...	..	7,103	9.5	34	n.	19
Keokuk, Iowa	30.23	76	67	174	58	6,034	8.1	30	sw.	22

COMPARATIVE DATA FOR JANUARY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	21.5	−8.7	74	−32	1.91	−0.08	......	....	6	....	....	....
1889	31.8	+1.6	69	− 2	2.36	+0.37	......	....	6	....	....	....
1890	33.8	+3.6	81	−19	4.25	+2.26	......	....	9	....	....	....
1891	34.1	+3.9	74	− 1	1.52	−0.47	......	4.3	6	....	....	....
1892	24.0	−6.2	67	−25	1.80	−0.19	......	....	4	14	8	9
1893	22.5	−7.7	66	−14	0.45	−1.54	0.90	2.4	3	9	11	11
1894	31.4	+1.2	77	−35	2.21	−0.22	2.96	2.7	5	13	9	9
1895	24.7	−5.5	78	−22	1.49	−0.50	2.20	9.4	5	14	8	9
1896	32.9	+2.7	71	− 9	1.17	−0.82	2.44	3.1	4	10	7	14
1897	28.4	−1.8	72	−16	4.90	+2.91	6.95	4.0	8	12	7	12
1898	34.3	+4.1	75	−10	3.98	+1.99	3.35	8.4	9	11	8	12
1899	30.2	0.0	70	−21	1.55	−0.44	2.40	4.0	6	12	8	11
1900	34.5	+4.3	77	− 9	1.22	−0.77	2.30	0.2	4	14	7	10
1901	35.0	+4.8	72	−11	1.30	−0.69	2.95	0.8	4	17	7	7
1902	30.1	−0.1	72	−17	1.23	−0.76	3.37	6.9	5	16	7	8
1903	31.4	+1.2	73	−11	1.36	−0.63	1.71	5.0	6	13	6	12
1904	27.0	−3.2	66	−23	2.85	+0.86	4.74	7.4	8	14	6	11
1905	22.3	−7.9	72	−19	1.79	−0.20	2.52	6.8	8	14	6	11
1906	35.6	+5.4	76	− 8	3.64	+1.65	3.00	9.2	6	14	5	12
1907	34.3	+4.1	79	− 5	5.10	+3.11	4.42	2.8	12	7	6	18
1908	34.4	+4.2	68	−10	1.51	−0.48	2.13	3.6	5	19	5	7
1909	33.7	+3.5	83	−20	2.17	+0.18	2.10	6.5	7	6	7	18
1910	32.3	+2.1	78	−24	1.83	−0.16	3.98	3.5	5	13	6	12
1911	34.6	+4.4	78	−19	1.20	−0.70	3.03	0.7	5	8	7	16
1912	20.0	−11.3	70	−36	1.06	−1.20	2.56	6.5	4	14	7	10
1913	33.1	+1.8	74	−12	3.67	+1.30	5.30	2.6	8	13	6	12
1914	38.1	+6.9	78	− 1	1.42	−0.92	2.00	1.0	4	12	7	12
1915	29.1	−2.2	76	−24	2.92	+0.59	3.10	5.4	8	12	5	14
1916	31.6	+0.7	72	−24	7.36	+5.16	4.65	3.4	12	9	4	18
1917	32.9	+2.5	76	−10	1.52	−0.64	2.50	2.3	5	15	7	9
1918	16.4	−14.0	67	−24	1.68	−0.71	3.20	16.6	7	12	7	12
1919	31.0	+3.6	70	−23	0.40	−1.88	3.05	1.4	2	20	5	6
1920	28.6	−1.4	72	− 5	1.57	−0.65	4.15	5.7	5	15	5	11
1921	37.1	+7.2	74	− 1	1.88	−0.38	1.45	5.4	6	10	7	14
1922	29.5	−0.6	66	− 6	1.21	−1.05	2.95	3.9	5	14	5	12
1923	39.2	+8.5	75	3	2.72	+1.81	3.52	0.6	6	12	7	12
1924	21.9	−5.5	68	−25	1.54	−0.49	1.78	5.7	7	14	5	12

Climatological Data for January, 1924.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	45	21.4	− 5.4	59	8	−16	5	44	1.65	+0.02	0.47	21.0	9	17	0	14	sw.	O. K. Benecke
Clifton Hill	Randolph	731	25	21.5	− 7.2	59	8	−20	5	42	1.65	+0.05	0.51	7.5	11	13	8	10	......	Dr. A. J. Bradsher
Columbia	Boone	748	34	24.0	− 5.2	60	8	−16	5	42	1.22	−1.01	0.46	10.3	11	13	7	11	s.	U. S. Weather Bureau
Downing	Schuyler	878	3	20.4	......	52	30	−21	5	41	1.07	−0.66	0.40	6.0	5	6	10	15	s.	E. E. St. Clair
Fayette	Howard	661	44	18.0	− 9.2	58	8	−22	5	48	1.07	−0.92	0.44	11.0	6	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	36	24.0	− 5.7	58	8	−16	5†	44	1.13	−1.22	0.25	8.3	10	16	4	11	sw.	Westminster College
Gorin	Scotland	700	37	....	......	..	..	....	..	..	1.33	−0.22	0.41	5.7	6	11	6	14	se.	J. W. Pulliam
Hannibal	Marion	534	32	23.0	− 4.1	58	8	−16	5	38	1.10	−1.10	0.54	6.0	10	12	7	12	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	36	24.4	− 5.4	62	9	−17	5	51	1.61	−0.61	0.40	13.1	9	17	5	9	s.	Miss Emma Swift
Kirksville	Adair	969	35	20.2	− 4.7	57	30	−21	5	42	0.96	−0.57	0.30	7.3	7	13	1	17	sw	Prof. J. S. Stokes
Louisiana	Pike	469	30	26.2	− 1.7	58	9	−14	5	40	1.18	−0.84	0.42	9.9	6	18	3	10	n.	J. T. Farrell
Macon	Macon	875	25	19.2	− 9.3	56	8	−20	5	45	1.19	−0.46	0.34	5.7	10	13	6	12	sw.	W. C. Brown
Mexico	Audrain	800	35	22.4	− 5.9	59	8	−15	5	49	1.43	−0.62	0.36	7.7	11	18	0	13	sw.	Mrs. Abbie Snoddy
Palmyra	Marion	652	25	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	C. Lawrence Legget
St. Catharine	Linn	800	13	21.0	− 5.4	53	30	−21	5	42	1.28	+0 04	0.36	9.0	9	14	10	7	sw.	L. D. Baker
St. Charles	St. Charles	456	36	25.7	− 5.4	62	9	−13	5	43	1.34	−0.93	0.40	7.0	5	14	4	13	nw.	L. C. Saeger
St. Louis (1)	St. Louis City	717	50	26.6	− 4.2	61	8	−11	5	34	1.15	−1.12	0.33	3.9	13	13	5	13	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	12	25.8	− 4.4	59	8	−13	5	33	1.28	−1.79	0.39	2.4	12	12	4	15	w.	St. Louis University
Shelbina	Shelby	779	31	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	....
Steffenville	Lewis	650	26	22.0	− 5.8	56	8	−19	5	44	1.69	−0.50	0.50	9.0	7	13	8	10	s	Frank Hall
Unionville	Putnam	1,062	31	20.2	− 3.3	54	30	−22	5	44	1.10	−0.74	0.40	7.0	5	13	9	9	n.	Geo. W. Davis
Warrenton	Warren	816	42	25.4	− 3.6	62	8	−17	5	39	1.25	−1.13	0.42	7.5	5	16	1	14	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	52	21.6	− 3.3	53	31	−19	5	41	1.31	−0.38	0.65	9.0	9	9	9	13	sw.	U. S. Weather Bureau
Section means and	extremes	.....	..	22.6	− 5.2	62	8†	−22	5	51	1.30	−0.69	0.54	8.2	8	14	5	12	sw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	28	34.8	− 4.2	68	31	4	5	32	4.44	−0.31	1.78	T.	8	14	5	12	e.	H. E. Averill
Doniphan	Ripley	344	20	29.6	− 6.6	63	31	− 3	5†	37	2.45	−1.76	0.72	3.5	9	14	3	14	s.	W.W. Martin
Jackson	Cape Girardeau	428	33	28.4	− 5.6	59	30†	− 8	5	36	1.99	−1.73	1.62	2.0	10	12	4	15	s.	John G. Putz
Marble Hill	Bollinger	470	29	29.2	− 5.6	63	31	− 7	5	44	2.99	−0.54	1.28	2.5	10	18	2	11	s.	R.A. DeWitt
Parma	New Madrid	281	3	....	......	..	..	....	..	..	2.88	......	1.00	0	7	..	..	..	......	J.E. Pearce
Patton (near)	Bollinger	500	15	....	... ..	..	..	....	..	..	2.17	−0.88	1.12	2.0	4	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	339	20	29.9	− 6.7	68	31	− 3	5	39	2.65	−1.32	0.96	2.9	10	17	3	11	sw.	Rev.J. A. Gallaher
Vanduser	Scott	304	23	....	......	..	..	....	..	..	2.02	−2.21	1.20	0	7	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	30.6	− 4.3	57	30	− 4	5	33	2.67	−1.15	0.90	2.0	12	10	8	13	s.	U. S. Weather Bureau
Section means and	extremes	....	..	30.4	− 5.5	68	31	− 8	5	44	2.70	−1.10	1.78	1.7	8	14	4	13	s.	
Ozark Plateau.																				
Arcadia	Iron	926	43	27.1^{i}	− 5 0	64	30	−11	5	40	1.56	−1.66	0.55	2.5	11	16	5	10	w.	Arcadia College
Birchtree	Shannon	1,000	29	29.2	− 5.2	62	31	− 9	5	37	1.54	−1.52	0.67	1.0	5	19	0	12	s.	V. H. Kirkendall
Bolivar	Polk	1,071	30	....	......	..	..	−12	5	..	2.43	+0.54	0.85	4.5	7	13	7	11	s.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	25	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	H. E. Dean
Eldon	Miller	934	28	25.3	− 6.1	62	8	−10	5†	41	1.17	−0.37	0.47	7.6	6	8	12	11	nw.	E. H. Shepherd
Farmington	St. Francois	918	13	27.2	− 5.6	58	30	−13	5	32	1.69	−0.66	0.60	4.5	6	13	6	12	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	26.3	− 6.6	58	30	−16	5	37	1.26	−1.59	0.34	5.6	8	13	6	12	s.	A. C. Leach
Goodland	Iron	1,000	30	26.7	− 5.9	61	9	−11	5	45	1.48	−1.39	0.50	4.0	6	15	5	11	n.	F. M Adams
Greenville	Wayne	381	2	30.3	......	63	10†	− 5	5	42	2.16	.. ...	0.70	1.3	11	16	3	12	s.	J. J. Amen.
Hollister	Taney	735	37	30.0	− 6.0	65	8†	−12	5	49	0.80	−1.81	0.50	2.0	3	9	8	14	n.	Mrs. W. P. Chapmann
Koshkonong	Oregon	958	23	31.2	− 5.3	62	8†	− 5	5	35	2.01	−1.53	0.45	6.0	9	14	1	16	nw.	R. M. Hitt
Lebanon	Laclede	1,265	36	25.6	− 7.4	60	8	−15	5	48	2,99	+0.54	1.50	4.6	7	18	1	12	s.	Tom E. Mulcare
Lockwood	Dade	1,078	18	28.9	− 4.4	58	8	−10	5	39	1.26	−0.40	0 24	8.5	6	18	2	11	nw.	C. S. Crow
Mountain Grove	Wright	1,463	23	26.8	− 6.4	60	30	−11	5†	54	1.06	−1.81	0.38	2.0	6	15	4	12	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	36	30.8	− 4.3	61	30	− 6	5	40	1.83	−0.67	0.63	3.5	8	17	2	12	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	24	28.2	− 3.1	62	8	−13	5	41	1.43	−1.02	0.33	6 5	7	12	7	12	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	22	31 5	− 3.2	59	30†	− 8	5	38	1.33	−0.91	0.58	4.0	7	14^{b}	3^{b}	12^{b}	sw.	Floyd E. Fawver
Seymour	Webster	1,642	18	28.7	− 5.6	59	8	−12	5	38	1.13	−1.57	0.50	1.7	7	13	7	11	s.	Ira H. Hailey
Springfield	Greene	1,350	36	28.4	− 5.1	58	8	−11	5	37	1.50	−1.16	0.55	3.3	13	14	7	10	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	28.3	− 5.3	65	8†	−16	5	54	1.59	−1.00	1.50	4.1	7	14	5	12	s.	
Southwest Plain.																				
Appleton City	St. Clair	853	30	26.8	− 4.5	59	30	−12	5	39	1.59	−0.24	0.40	5.0	12	13	8	10	sw.	W. G. Bigelow
Clinton	Henry	765	31	27 4	− 4.0	60	8	−12	5	38	1.66	−0.32	0.60	8.0	7	10	8	13	sw	A. E. Derwent, M. D
Harrisonville	Cass	904	47	23.4	− 3.8	57	8	−15	5	49	1.36	−0.24	0.41	6.0	7	9	2	20	nw.	John H. Patterson
Lamar	Barton	980	37	26.8	− 5.6	58	8†	− 9	5†	47	1.73	+0.03	0.56	8.0	8	14	5	12	sw.	Jesse A. Mann
Lamonte	Pettis	867	23	24.4	− 4.3	59	8	−19	5	46	1.82	+0.04	0.53	12.5	11	7	13	11	sw.	J. E. Wheeler
Marshall	Saline	779	35	23.0	− 4.6	56	8	−16	5	41	2.54	+0.72	1.00	13.5	9	11^{b}	4^{b}	14^{b}	nw.	Dr. W. H. Black
Nevada	Vernon	862	31	28.1	− 3.6	60	30	−11	5	37	2.84	+0 87	1.07	4.7	7	14	3	14	s.	George A. Kaupp
Warrensburg	Johnson	878	37	25.8	− 3.1	61	30	−17	5†	52	1.56	−0.23	0.40	10.5	8	11	12	8	sw.	E. A. Markey.
Warsaw	Benton	687	24	27.0	− 5.8	60	8	−14	5	43	2.98	+0.60	0.65	16.5	10	12	11	8	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	25.9	− 4.4	61	30	−19	5	52	2.01	+0.14	1.07	9.4	9	11	8	12	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	34	23.2	− 5.3	58	30	−20	5	32	1 19	−0.60	0.30	5.9	6	14	3	14	sw.	F. G. Ashbaugh
Bethany	Harrison	916	32	20.6	− 4.0	53	8	−24	5	43	1.22	−0.08	0.62	3.0	5	14	4	13	sw	Owen Ross
Chillicothe	Livingston	779	15	18.6	−10.2	57	30	−20	5†	55	0.85	−0.81	0.35	6.0	3	17	5	9	nw.	Wm. J. Olenhouse
Conception	Nodaway	980	35	19.6	− 5.2	57	30	−25	5	45	0.50	−0.45	0.38	1.0	3	14	10	7	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	4	21.2^{e}	.....	57	8	−19	5	47	0.42	−0.85	0.22	4.0	3	18	0	13	s.	Fred L. Stiff
Grant City	Worth	1,134	20	21.6	− 3.3	57	30	−23	5	42	0.92	−0.04	0.57	3.0	6	13	11	7	s.	B. F. Locke
Kansas City	Jackson	963	35	25.4	− 2.8	59	8	−15	5	36	1.20	+0.07	0.42	6.4	9	14	7	10	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	31	19.3	− 7.6	56	30†	−21	5†	44	0.74	−0.56	0.50	2.5	3	15	2	14	se.	Linn Terry
Lexington	Lafayette	688	39	23.2	− 4.3	58	31	−17	5	34	1.28	−0 29	0.47	10.5	6	15	3	13	s.	Edwin G. Loomis
Liberty	Clay	859	34	23.2^{a}	− 5.9	60	30	−17	5	45	1.43	+0.19	0 60	6.8	4	14^{a}	11^{a}	5^{a}	nw.	James H. Harris
Maryville	Nodaway	1,169	34	20.6	− 1.8	57	30	−24	5	43	0.23	−0.85	0.20	2.0	2	24	0	7	n.	J. R. Brink
Oregon	Holt	1,048	68	21.2	− 2.7	53	30	−21	5	41	0.66	−0.73	0.42	2.4	3	13	9	9	nw.	Tom Curry
St. Joseph	Buchanan	967	16	22.0	− 5.4	56	30	−19	5	37	0.66	−0.19	0.26	3.3	10	15	8	8	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	21	18.6	− 4.3	54	30	−22	5	41	0.24	−0.55	0.16	4.0	3	17	4	10	s.	Albert Volker
Trenton	Grundy	822	28	21.2^{i}	− 5.5	49	8	−19	5	38	1.16	−0.22	0.40	4.6	7	12	15	4	s.	W. H. Estes
Section means and	extremes	.....	..	21.3	− 4.9	60	30	−25	5	55	0.85	−0.40	0.62	4.2	5	15	6	10	s.	
State means and	extremes	.....	..	24.9	− 5.5	68	31	−25	5	55	1.54	−0.49	1.78	5.7	7	14	5	12	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for January, 1924.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri				.05	.02					.18	T.	.10		.03		.40		T.	T.	.10				.26	.13							1.27
Brunswick‖	Grand		.06		.13						.26	.03	.17		.14		.47								.14	.25							1.65
Clifton Hill	Chariton	.25			.06		.03	.06		.03	.13			.07	.03	.08	.40								.51	T.							1.65
Columbia***	Missouri		.01		.04					.07	.05	.05		T.		.39	.07	.01	.05	.18					.30	T.			T.			T.	1.22
Downing	Mississippi									.10	.27			.05			.25								.40								1.07
Fayette‖‖	Missouri				.03					.44	.04	.01		.01		.54																	1.07
Fulton	do				.02					.08	.25	T.	.02			.08	.25	T.	.02	.17					.20					.04			1.13
Gorin	Mississippi				.07					.39				.05		.41									.38							.03	1.33
Hannibal***	do	.02	T.		.02					.54	T.	.01		.02		.26	.06		.02	.03					.12	T.						T.	1.10
Hermann‖	Missouri		T.		T.	.04					.40	.07					.25		T.	.04	.15				.08	.04							1.07
Jefferson City‖	do					.22					.20	T.	.01				.40			.25	.22				.27				.02	.02			1.61
Kirksville	Mississippi	.20			.03					.08	.06			.04			.30								.25								0.96
Louisiana	do		T		.02					.24	.42	T.	.02	T.			.40		T.	.08						T.							1.18
Macon ‖	Chariton	.04	.05		.09						.24	.04	.01	T.	.04		.34								.13	.21							1.19
Mexico ‖	Mississippi		.06			.05					.36	.03	.06		.07	T.	.35		T.	.03	.17				.18	.07							1.43
Milan‖	Grand		.25		.05					.30		T.			.10		.20								.05	.35							1.30
Pacific‖	Meramec			.02	T.						.25	.10	.03				.80		.04	.13	.25				.03	.14			.07	.09	.04		1.99
Palmyra‖	Mississippi																																....
St. Catharine	Grand		.06		.05					.03	.33		T.	.07		.01	.36			T.					.35	.02							1.28
St. Charles	Missouri		T.		.04					T.	.36						.20	T.	T.	.40					T.				.34				1.34
St. Louis (1)***	Mississippi		.01		.01	T.				.15	.18	T.				.30	.03	.01	.02	.27					.06	.01			.05	.05			1.15
St. Louis (2)	do		.01		.01					.23	.16	T.				.14	.12	.01		.29					.15	.01			.11	.04			1.28
Shelbina	do																																....
Steffenville	do	T.	.07			.10				.15	.40	T.		.07	T		.50			T.					.40		T.		T.				1.69
Union‖	Meramec		T		T.	.01					.25		.03				.23		.20	.10	.26				.08	.14			.03	.03			1.36
Unionville	Chariton		.25							T.	T.			.10	.15	T.	.20								.40				T.				1.10
Valley Park‖‖	Meramec	T.		.01		T.					.19	.06	T.				.26	T.	.02	.10	.31				.01	T.			.14	.06	.02		1.18
Warrenton	Mississippi				.02	T.				.10	.42					T.	.35	T.		.36													1.25
Keokuk, Ia.***	do	.01	T.		.02					.62	.03	T.	T.	.11	T.	.26	.16		T.	T.					.09	T.						.01	1.31
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi		.08	.18							.75	.31		.15			.60		T.	.02	.04				.06	.22	.07			.01	.16		2.65
Caruthersville	do		.25	.52						T.	1.78		.07	T.		.42	1.05	T		T.					.20	T.			T.	.15		T.	4.44
Doniphan	Black										.72		.24			.43	.35	.04		.02					.30				.15	.20			2.45
Jackson	Mississippi		.07	.12	T.						1.02		.12				.10		.03	.01					.30					.10		.12	1.99
Leeper ‖	Black																																....
Marble Hill	Mississippi		.02	.02							1.28		.12				.92	.10		.05					.25				.08	.15			2.99
New Madrid‖	do	.03	.01	.81							.63	.53		.17			1.05				.02				.08	.20				.06	.26		3.85
Parma	St. Francis		.10	.25							.98						1.00			.10					.15					.30			2.88
Patton (near)	Mississippi										1.12			.20			.70													.15			2.17
Poplar Bluff	Black		.05	.13							.96		.17			.25	.49	.01	T.						.18				.07	.34			2.65
Vanduser	Mississippi			.24							1.20	.28				.10						.01			.17							.02	2.02
Cairo, Ill.***	do	T.	.33	.05	T.	T.				T.	.90		.19			.62	.05	.01	T.	.02					.18				.02	.19		.11	2.67
Ozark Plateau.																																	
Annapolis‖	St. Francis									.55								.40								.22			.17				1.34
Arcadia ‖	do			.08		T.					.55	.07	.14				.41		.02		.04				.07	.08				.07	.03		1.56
Birchtree	Black										.67		T.			.34		T.							.25				.15	.13			1.54
Bolivar‖	Osage				.03						.27		.20				.55			.18					.85					.35			2.43
Dean	Neosho																																....
De Soto‖‖	Mississippi				T.					.19			.20			.49	.47	.05		.02					.25				.09				1.76
Eldon	Missouri				.08					.47	T.		.22			.15			T.	.17					08							T.	1.17
Farmington	St. Francis		T.		T.						.60		.18			.07	.45	.04		.04					.22				T.	.09		T.	1.69
Fredericktown‖‖	do				T.	.08	.04		.06			.69			.20			.60		.40	.30					.60							2.97
Galena‖‖	White																.22				.05					.68				.12	.13		1.20
Gano	Meramec			.04	.04					T.	.30		.34			T.	.14	.10		T.					.15	T.			.15	T.		T.	1.26
Goodland	Black										.50		.36	.40			.15			.05									.02				1.48
Greenville	St. Francis		.01	.15	T.					T.	.70		.10			.23	.47	.03		.03					.20				.12	.12			2.16
Hollister	White				T.													.18							.50					.12			0.80
Jerome ‖	Gasconade										.28		.30				.30	T.	T.						T.				T.	T.	.40		1.28
Koshkonong	Black		.06							T.	.45		.40			.34	.20	.10							.16				.15	.15			2.01
Lebanon ‖‖	Osage				.01	T.	T.	T.		T.	T.		.40			.45		T.	T.	1.50	T.				.45	T.				.10	.08		2.99
Lockwood	do				T.					T.		.25				.22	.24	.18		T.					.15					.22			1.26
Mineral Point‖‖	Meramec									.20		.01					.20			T.					.20								....
Mountain Grove‖	White			T.	T.						.38		T.				.20	T.	T.		T.				.28	.03			.06	T.	.11		1.06
Neosho	Neosho		T.		.05					T.	.23		T.			.34	.06	.05	T.	.16					.63				T.	.31			1.83
Rolla	Meramec				T.					.33	T.		.18			.32		T.	T.	T.				.32	.04	T.		.07		.17			1.43
Seligman	Neosho				T.					.02						.23	.05	.30		T.				T.	.58				.06	.09			1.33
Seymour	White		T.		.04					T.	.25		T.			.09		.14	T.	T.					.50				.05	.06			1.13
Springfield***	do		T.	T	.02					.08	.06	.03	.02			.25	.02	.10	.06	.16				.05	.51	T.			T.	.14	T.		1.50
Steelville‖	Meramec										.26		.20							.44					.05	.32				.12	.09		1.48
Tuscumbia ‖‖	Osage				.10						.05		.20				.32	T	.10	.32	.07				.40	.02			.02	.10	.04	T.	1.74
Willow Springs‖‖	Black										.47						.20	.12							.62	.04				.22	.12		1.79
Southwest Plain.																																	
Appleton City	Osage		T.		.03	T.				.05	.40		T.	.01		.23	.23	.05	.01	.25					.30	.01				.02	T.		1.59
Clinton	do									.10	.30			.04		.12	.30			.20									.60				1.66
Harrisonville‖	do				.02					.05	.38		T.	.12			.41		T.						.27	.11							1.36
Joplin*	Neosho									.27						.34	.01							.37	.45								1.44
Lamar ‖	do				.10						.28	T.	.10				.56	.05		.14					.42					.08	T.		1.73
Lamonte	Missouri				.13					.14	.20	* *	* *	* *		* *	* *	* *		.82					.53								1.82
Marshall	do	T.	T.		.20			T.		.35	T.	.05	.44	30	T.	.05	1.00	T.	T.	.05					.10	T.							2.54
Nevada	Osage			T.	.50					.50	.39		.06	T.		T.	.28	04							1.07								2.84
Osceola‖‖	do				.10						.25		.11				.75	T.		T.					.85	T.							2.06
Warrensburg	Missouri		T.		.14					.18		.09		.08		.30	.30	.07							.40	T.							1.56
Warsaw	Osage		T.		.10					T.	.26		.07	T.		.55	.50	.05	.15	.60					.65	T.			.05			T.	2.98
Waverly ‖	Missouri	T.	T.	T.	.10					T.	.17	.02	.25		.20		.55	T.		T.					T.	.28							1.57
Northwest Plateau.																																	
Albany‖‖	Grand	T.	.15	T.							.40	.30	T.		.05		T.								.10								1.00
Avalon	do		T.		.10						.30				.04			.25						.25					.25				1.19
Bethany	do	T.	.08		T.					.40	T.	.04		.08		T.				T.					.62				T.				1.22
Chillicothe ‖‖	do		T.		T.					T.	.35				T.		.25								T.	.25	T.						0.85
Conception	Missouri	.06								.06	.38	T.													T.	T.			T.				0.50
Edgerton	do	.06			T.							.14				T.	T.								.22	T.							0.42
Gallatin	Grand		.10	.10								.40			.10		.20									.30							1.20
Grant City	do	.04	.16		.02					T.	.57	T.		.02											.11								0.92
Kansas City***	Missouri	T.	.01		.04					.38	.04	.20		.04		.16	T.	.01		T.				T.	.32	T.			T.	T.		T.	1.20
Kidder ‖	Grand		T.		.04						.50			T.	.20										T.								0.74
Lexington	Missouri					.05					.25		.25		.04		.47									.22							1.28
Liberty	do	T.			T.						.38	.08				.60									.37								1.43
Maryville	do		.20							.03	T.																						0.23
Oregon	do	.12									.42	.12				T.		T.											T.				0.66
St. Joseph***	do	.07	.02	.01	.02					.11	.02	.11		.03			T.	T.							.26	T.			T.	.01		T	0.66
Tarkio	do	.16									.04	.04		T.											T.								0.24
Trenton	Grand		T.		T.						.40	T.	T	.06	.04	.16	.13			T.					.02	.35	T.						1.16

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for January, 1924.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	23	28	21	16	5	32	48	59	50	36	30	18	22	34	41	26	17	33	21	12	31	38	43	42	17	30	53	47	44	56	48	32.9
	Minimum	-3	-3	4	2	-16	-6	5	16	31	35	19	11	-1	-4	-3	24	-2	-2	3	-4	-10	10	21	21	15	9	9	28	39	30	30	9.9
Columbia	Maximum	19	29	24	18	-1	35	44	60	52	46	31	28	24	38	37	32	10	35	35	10	21	43	42	43	34	29	55	48	47	55	46	34.5
	Minimum	-2	19	9	-7	-16	-7	21	32	39	22	19	5	2	3	28	1	-1	2	5	-2	-10	21	25	34	9	8	22	41	32	32	35	13.6
Fayette	Maximum	15	25	18	10	-5	32	42	58	45	40	26	20	18	32	32	27	10	28	28	5	10	35	40	35	25	25	50	40	40	54	42	29.1
	Minimum	-7	15	2	-16	-22	-16	14	19	32	15	13	-2	-5	-8	20	-4	-5	-8	0	-8	-17	10	18	25	5	3	15	33	34	29	28	6.8
Hannibal	Maximum	17	29	20	15	-4	32	43	58	49	45	28	28	21	34	38	32	9	32	27	8	15	42	40	40	35	26	45	45	48	55	53	32.4
	Minimum	-2	17	6	-9	-16	-6	20	29	40	25	22	13	9	4	28	0	-3	0	8	1	-7	15	26	31	8	6	19	40	36	33	33	13.7
Jefferson City §§	Maximum	25	30	25	17	[illegible]	36	45	61	62	34	35	21	24	40	37	30	28	35	18	12	32	45	46	44	20	31	56	52	50	57	50	35.6
	Minimum	-1	5	10	11	-17	-15	6	25	32	33	20	17	3	5	13	28	-2	-3	15	-1	-4	-1	24	30	18	9	12	31	40	34	34	13.3
Kirksville	Maximum	10	25	22	13	-2	28	43	53	47	42	28	27	20	30	39	33	28	28	28	16	12	37	37	39	39	28	45	43	44	57	51	31.9
	Minimum	-8	9	-4	-3	-21	-14	9	28	35	24	18	9	3	-3	26	0	-8	-4	4	-2	-8	7	6	26	6	2	15	15	37	31	31	8.6
Louisiana	Maximum	35	37	30	26	16	32	40	54	58	48	40	34	34	30	36	32	30	30	30	22	12	40	42	40	42	28	40	45	45	54	55	36.7
	Minimum	2	12	10	10	-14	-8	18	24	38	34	22	22	8	7	22	26	-4	-5	16	0	-8	5	30	30	13	5	18	35	38	43	38	15.7
Macon §§	Maximum	20	21	19	14	4	30	44	56	45	35	27	18	9	34	39	21	10	31	20	9	28	37	41	40	15	26	49	44	43	54	50	30.1
	Minimum	-7	-4	-2	-2	-20	-19	2	18	31	34	19	11	1	-3	-3	20	7	6	7	-4	-10	-8	21	21	9	4	6	24	38	30	32	8.4
Mexico §§	Maximum	25	25	22	23	2	30	45	59	58	38	38	22	22	37	38	28	24	35	15	10	29	41	40	41	16	27	51	46	47	58	51	33.6
	Minimum	1	2	12	12	-15	-10	1	23	28	34	18	10	4	4	7	27	-3	-3	-2	-2	-10	-8	24	25	15	7	9	26	40	34	33	11.1
St. Catharine	Maximum	11	27	24	13	4	29	42	51	45	44	29	28	20	31	32	32	12	29	29	19	13	37	39	40	39	28	46	43	43	53	48	31.6
	Minimum	-7	9	-2	4	-21	-13	7	26	35	26	18	11	4	-3	25	7	-2	-2	8	0	-8	6	17	18	9	3	17	36	37	30	31	10.5
St. Louis(1)	Maximum	21	32	30	21	2	30	43	61	50	48	29	32	25	34	39	34	11	38	38	13	16	45	45	41	39	25	44	45	49	56	56	35.2
	Minimum	5	21	16	2	-11	-4	23	31	39	28	23	18	13	13	22	11	0	8	13	5	2	16	32	34	13	9	22	37	42	38	39	18.1
Unionville	Maximum	8	25	22	20	-2	30	40	50	45	42	30	28	20	30	35	30	10	26	26	15	12	40	39	35	36	38	45	44	44	54	48	31.1
	Minimum	-11	5	-8	-2	-22	-14	15	25	35	24	15	6	2	-2	25	3	-6	0	4	-3	6	6	18	25	4	2	12	32	34	30	31	9.4
Warrenton	Maximum	15	30	30	24	17	31	43	62	57	47	31	31	24	34	34	31	19	39	39	19	12	44	43	39	39	24	45	45	47	54	54	35.6
	Minimum	0	15	10	11	-17	-8	23	25	38	28	20	17	5	6	22	17	7	11	19	0	-6	5	24	29	14	6	18	33	35	34	34	15.3
Southeast Lowlands.																																	
Caruthersville	Maximum	34	36	40	45	26	28	42	58	58	48	43	39	35	44	40	40	37	47	54	33	37	45	52	45	45	37	53	55	52	65	68	44.5
	Minimum	17	26	29	24	4	6	20	28	33	31	28	19	16	20	27	36	24	25	32	16	12	22	27	38	30	16	23	33	45	39	36	25.2
Doniphan	Maximum	26	30	33	32	24	26	44	54	51	50	40	33	30	35	35	37	33	39	47	30	32	43	48	44	41	33	46	45	48	50	63	39.4
	Minimum	10	21	23	15	-3	-3	15	17	30	29	25	27	3	5	12	30	19	17	27	11	7	20	25	34	29	12	18	33	38	34	30	19.7
Jackson	Maximum	24	32	34	28	28	25	43	53	52	49	42	37	26	35	36	36	34	39	41	24	25	43	50	43	40	31	45	52	46	59	59	39.1
	Minimum	8	20	21	15	-8	-2	11	19	32	32	26	26	4	6	11	31	11	7	22	9	6	17	19	32	20	11	19	31	32	31	28	17.6
Poplar Bluff	Maximum	32	32	29	35	22	24	39	49	53	50	44	37	25	32	36	35	35	42	41	29	28	38	45	44	41	29	41	45	48	52	68	38.7
	Minimum	11	22	24	17	-3	2	18	21	33	30	27	27	6	9	16	32	19	17	25	12	10	22	25	35	27	13	20	34	39	36	29	21.1
Cairo, Ill.	Maximum	25	34	32	30	14	23	42	54	52	50	38	34	28	35	38	43	26	42	53	20	26	40	49	42	38	28	43	52	48	57	57	38.5
	Minimum	13	25	22	14	-4	1	20	31	38	29	28	23	14	16	25	26	18	21	20	12	12	23	31	35	17	14	22	37	45	37	40	22.7
Ozark Plateau.																																	
Arcadia §§	Maximum	..	..	..	..	..	..	..	..	..	44	40	30	32	40	36	34	20	39	37	21	31	45	51	41	30	36	50	46	45	64	62	[i]39.7
	Minimum	9	18	19	14	-11	-5	-2	22	23	38	23	23	0	0	6	13	10	2	17	7	5	7	21	25	28	9	9	19	36	37	27	14.5
Birchtree	Maximum	28	30	37	28	20	28	51	60	49	47	43	37	33	37	33	33	28	35	41	20	28	46	52	45	39	36	50	42	46	61	62	39.5
	Minimum	6	20	20	16	-9	-3	15	23	34	23	20	24	7	12	24	28	16	14	18	8	5	10	25	34	24	11	20	34	38	35	35	18.9
Eldon	Maximum	20	30	30	20	8	31	51	62	52	36	41	34	34	42	36	31	11	35	35	13	11	43	42	45	50	34	57	50	48	61	50	36.9
	Minimum	-1	19	9	7	-10	-10	21	26	35	31	11	9	0	1	26	10	-2	-3	10	0	-5	11	25	33	10	7	17	40	36	29	33	13.7
Farmington	Maximum	22	31	30	26	19	27	47	55	52	48	36	34	32	37	35	33	26	35	38	16	25	44	45	42	39	30	45	46	46	58	57	37.3
	Minimum	4	19	14	16	-13	-5	18	25	33	28	24	22	3	8	14	26	7	5	16	6	5	16	24	34	14	8	18	32	40	38	34	17.2
Hollister	Maximum	40	30	28	27	25	25	56	65	62	56	48	46	42	40	52	34	28	30	42	35	40	50	52	54	45	42	61	60	62	65	65	45.4
	Minimum	6	20	10	8	4	-12	18	16	18	22	18	16	8	12	10	26	14	16	9	9	16	6	17	18	20	12	16	18	20	30	29	14.5
Koshkonong	Maximum	27	30	39	32	18	28	53	62	48	47	42	36	35	44	33	33	32	37	45	25	37	46	51	44	39	39	54	48	49	62	64	41.3
	Minimum	8	22	22	17	-5	-1	18	29	35	25	22	24	4	12	21	31	17	16	24	10	10	21	27	34	27	12	21	32	36	39	40	21.0
Lebanon §§	Maximum	25	30	30	20	7	32	53	60	55	37	41	24	31	43	35	36	28	37	32	15	34	44	56	42	31	36	56	52	49	58	55	38.2
	Minimum	-1	0	14	12	-15	-14	5	22	35	29	15	15	-7	-3	3	28	1	1	26	3	4	4	26	28	23	8	10	25	39	34	34	13.0
Mountain Grove §§	Maximum	34	28	37	23	12	30	54	58	49	32	42	27	33	43	32	30	26	37	37	18	33	45	51	39	28	35	54	48	46	60	58	38.0
	Minimum	3	4	20	19	-11	-11	0	24	33	31	17	17	5	8	10	25	9	9	25	6	6	7	22	26	26	10	10	23	36	37	35	15.5
Neosho	Maximum	24	30	32	33	23	33	50	52	54	49	42	43	35	43	44	35	22	39	50	20	37	43	52	44	43	44	50	51	51	61	59	41.5
	Minimum	6	23	14	14	-6	-1	18	28	41	22	17	22	11	15	28	20	6	-1	18	10	12	27	26	37	24	15	28	41	44	31	32	20.1
Rolla	Maximum	23	30	32	27	14	36	53	62	56	47	37	34	30	42	35	33	16	36	38	15	29	45	53	44	39	35	57	53	47	59	53	39.0
	Minimum	2	20	15	14	-13	-5	23	32	39	22	20	18	-2	1	23	19	1	3	15	4	3	23	29	35	17	9	23	39	41	35	38	17.5
Springfield	Maximum	24	29	32	25	5	37	50	58	49	46	39	32	34	45	33	32	18	39	40	16	34	43	49	40	33	35	54	49	46	56	56	38.0
	Minimum	3	22	15	1	-11	0	28	36	37	20	18	12	8	11	27	11	5	18	12	7	12	26	31	33	14	12	27	40	38	31	38	18.8
Southwest Plain.																																	
Amoret	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Appleton City	Maximum	16	28	28	24	16	35	49	57	51	46	34	34	31	45	39	32	13	34	34	18	28	40	37	44	41	36	52	47	51	59	52	37.1
	Minimum	2	16	8	11	-12	0	20	30	37	21	16	16	8	6	26	11	2	-1	13	0	2	20	28	34	17	11	26	38	40	28	34	16.4
Clinton	Maximum	17	30	27	23	12	38	50	60	55	50	40	34	32	44	45	32	12	38	35	20	24	41	39	47	42	36	52	50	50	54	52	38.1
	Minimum	0	10	10	4	-12	0	20	30	38	23	17	9	15	24	28	12	2	0	12	0	0	20	26	32	12	11	26	40	43	30	35	16.7
Harrisonville §§	Maximum	26	28	23	21	12	36	48	57	41	30	32	20	29	43	35	25	30	33	26	18	27	39	38	40	35	52	48	51	50	48	54	35.3
	Minimum	-3	-3	3	3	-15	-13	8	19	35	30	14	12	8	5	5	24	1	1	7	0	0	1	1	26	34	10	10	27	38	32	32	11.4
Lamar §§	Maximum	27	30	30	27	9	38	51	58	50	28	36	25	34	46	35	26	26	37	26	21	38	44	42	42	27	41	55	50	51	58	57	37.6
	Minimum	4	5	12	12	-9	-9	9	21	35	26	19	18	1	8	12	23	3	1	25	8	8	12	29	32	26	13	15	35	42	28	28	15.9
Lamonte	Maximum	15	28	26	18	6	35	51	59	49	46	35	28	26	43	39	33	17	35	34	12	24	42	38	45	37	53	47	47	48	57	46	36.1
	Minimum	-3	4	4	1	-19	11	15	28	37	20	14	3	-4	5	26	7	-1	-2	6	-6	-5	13	23	30	12	7	36	35	35	29	31	12.6
Marshall	Maximum	13	28	26	17	7	32	43	56	51	50	31	9	23	35	39	31	9	35	33	19	15	38	38	42	41	22	50	55	48	53	47	33.4
	Minimum	-3	12	12	7	-16	-9	17	26	38	24	23	7	-5	-6	31	9	-5	-5	10	-3	-8	9	22	31	13	8	19	36	36	31	30	12.6
Nevada	Maximum	21	28	29	28	17	35	49	58	50	48	35	34	32	45	38	33	13	36	35	18	31	41	39	45	40	36	53	49	51	60	56	38.2
	Minimum	3	9	20	25	-11	0	22	33	28	21	18	15	5	8	30	13	2	1	15	4	6	25	30	35	17	13	27	40	37	30	36	18.0
Warrensburg	Maximum	13	29	26	18	19	35	51	60	50	47	33	26	30	43	38	36	19	31	36	17	22	42	42	45	41	42	60	60	60	61	51	38.2
	Minimum	-2	13	5	9	-17	-17	18	30	37	20	16	5	2	-2	27	11	-1	0	10	-4	-5	18	20	32	13	9	27	35	35	32	35	13.3
Warsaw	Maximum	19	30	36	26	16	38	52	60	54	50	36	35	28	45	41	34	16	35	34	17	28	45	48	44	42	35	56	52	50	56	53	39.1
	Minimum	1	11	9	12	-14	-5	21	23	40	22	17	16	4	6	29	11	2	-7	13	-1	-12	17	17	36	17	10	24	41	41	32	30	14.9
Northwest Plateau.																																	
Chillicothe §§	Maximum	20	27	12	12	5	35	45	55	47	35	29	11	22	32	37	16	13	30	20	10	29	39	38	41	14	30	51	44	47	57	46	30.6
	Minimum	-6	-6	-5	-5	-20	-20	3	17	30	34	14	9	0	-3	-3	16	-2	-4	-2	-1	-8	-8	17	17	10	5	7	24	37	31	31	6.7
Grant City	Maximum	3	24	22	13	13	31	40	49	48	44	24	25	21	31	36	35	18	33	32	16	20	45	45	40	36	29	49	49	51	57	54	33.3
	Minimum	-14	3	-10	-5	-23	-11	13	26	32	19	8	5	4	0	24	1	-2	4	6	-2	6	11	22	28	5	2	16	35	36	31	33	9.8
Kansas City	Maximum	18	29	15	16	4	36	50	59	47	46	30	23	26	41	36	32	14	32	26	16	30	41	43	45	29	31	52	48	52	55	47	34.5
	Minimum	-3	15	0	-7	-15	4	27	35	41	17	15	10	8	5	30	4	1	5	11	7	3	29	31	29	11	11	26	43	40	38	37	16.4
Kidder §§	Maximum	21	29	12	12	8	32	46	55	45	30	38	31	24	30	36	10	13	30	21	10	29	38	39	40	15	28	50	51	47	56	56	31.7
	Minimum	-9	-8	-10	-6	-21	-21	6	22	34	28	10	10	-1	-5	-2	6	-1	-2	4	2	-6	-6	26	21	10	5	7	22	36	31	32	6.9
Lexington §§	Maximum	25	13	29	28	17	6	35	45	56	48	45	32	27	25	36	36	32	11	33	33	16	16	39	39	44	41	31	52	46	47	58	33.6
	Minimum	-3	12	1	7	-17	-6	6	30	37	30	11	8	-4	-6	24	19	1	-3	11	0	-5	10	16	30	14	8	20	31	39	34	35	12.7
Maryville	Maximum	4	23	12	7	7	32	40	51	44	42	22	38	21	31	35	25	16	32	23	12	20	46	42	35	32	31	51	44	50	57	43	31.2
	Minimum	-13	4	-11	-7	-24	-11	17	27	38	14	8	5	4	0	25	0	-2	6	7	0	-5	13	22	32	5	3	15	35	35	33	33	9.9
Oregon	Maximum	8	26	14	9	-2	33	40	51	45	45	36	21	22	34	37	32	13	29	24	12	20	42	39	37	31	29	51	44	49	53	48	31.4
	Minimum	-10	8	-8	-7	-21	-8	20	29	38	15	10	4	3	-4	24	1	-1	6	7	1	-2	7	24	30	7	5	19	37	36	32	36	10.9
St. Joseph	Maximum	14	26	11	11	0	36	43	55	45	41	25	17	22	36	36	27	16	31	19	13	25	45	41	37	22	31	55	45	51	56	44	31.5
	Minimum	-6	7	-5	-12	-19	0	18	33	41	16	12	4	-1	-1	27	2	1	6	9	3	1	25	25	22	8	8	21	39	37	34	36	12.6
Trenton	Maximum	10	28	20	11	-1	30	37	49	44	42	29	25	23	28	..	..	..	..	..	..	10	..	..	37	37	..	42	42	43	44	44	[i]30.6
	Minimum	-7	10	-4	-2	-19	-8	18	28	35	22	16	12	5	1	23	5	0	2	5	2	-2	8	20	30	9	5	18	37	33	32	35	11.9

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVIII. COLUMBIA, MO., FEBRUARY, 1924. No. 2.

GENERAL SUMMARY.

The outstanding weather feature of February, 1924, in Missouri, was frequent and heavy snow. And, owing to this feature alone, the month has been listed in the public mind as severely cold and wintry. According to statistics of the several climatic elements published herein, the month's weather was made up of several alternating relatively cold and relatively mild spells, along with quite well defined precipitation and clear sky periods. For the month as a whole, temperatures were higher than normal in all sections. It also was remarkably free from sudden and severe temperature changes, and the sunshine, notwithstanding the frequent snows, was a bit more than usual. There were two typical winter temperature periods, from the 4th to the 8th, and 18th to 22d. From 1 p. m. of the 4th to 4 p. m. of the 8th, or about 100 consecutive hours, the temperature at Columbia, the section center, did not rise above 32°F.

The weather was unfavorable from nearly all standpoints. Farm work hardly made a start. House building, and road making were at a minimum movement. Snow drifts impeded railway traffic at times, and, owing to unusually bad public roads, country business was conducted mostly by horseback or horse-drawn vehicles.

Winter wheat made little progress, but was not injured. It was snow covered during the cold periods. Peach buds have been killed to a considerable extent; and some fruit trees in the northwest part of the State were damaged by an ice storm (frozen rain) the night of the 3d-4th. On the same date thunderstorms, attended by hail (a summer phenomenon) occurred at a number of places in the Ozark region.

TEMPERATURE.

The monthly mean temperature for the State as a whole was 33.8°, based upon the reports of 67 stations. This value is about 2° higher than the 36-year average. There was no prolonged cold or relatively warm periods. The first four days, and from the 9th to the 17th, and the 28th, and 29th, were warmer than normal. The coldest weather occurred during four days from the 5th to the 8th, inclusive; the longest cold spell prevailed from about the 18th to the 27th, but temperatures did not reach so low a value as during the first and shorter cold spell. Zero conditions occurred at about seven stations on the morning of the 6th. During the afternoons of 2d, 3d, 14th, and 28th temperatures reached 70° or higher at several quite widely separated points. There were 24 nights with temperature of 32° or lower.

PRECIPITATION.

The monthly precipitation, based upon records of 104 stations, was 1.84 inches, a deficiency from the 56 year's average of 0.31 inch. The precipitation was largely in the form of snow, the moisture being well distributed. There were three distinct precipitation periods, 4th to 6th, 16th to 20th, and 23d, and 24th. There was some moisture during the second week, but it was somewhat scattered save in the Ozarks where it was more general.

The snowfall was most frequent and the heaviest during any February since 1914. General and heavy snows prevailed on the 4-5th, 19th, and 23-24th. The first was attended by quite high winds that drifted the snow to considerable depths, resulting in some temporary stalling in cross-state traffic. The average fall for the State was more than 8 inches. In the Ozarks the snow was relatively light, differing somewhat from the usual. In nearly all of the State north of the Ozarks depths were remarkably uniform, ranging from 10 to 15 inches.

WIND.

The prevailing winds were from the northwest. The average wind movement, based upon the records of 8 stations equipped with anemometers, was 7,372 miles, 10.6 miles an hour. Brisk to strong winds occurred generally on the 4th. Except drifting snow and stalling traffic no damage was reported.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, based upon the records of 6 well placed stations equipped with sunshine recorders, was 178. This is about 57 per cent of the possible and about 4 per cent more than normal. There was about 1 per cent more sunshine than during the same month last year.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---In the Missouri River bottom lands and in the southeast part of the State on the 2d, and 27th.

Hail.---Arcadia, Caruthersville, Jackson, Poplar Bluff, Seligman, and Springfield, night of 3d, 4th.

Halos, solar.---3d, 13th, 15th, 25th, and 29th.

Halos, lunar.---10th, 12th, and 15th.

Sleet.---4th, 11th, 13th, 16th, 17th, 18th 19th, 22d, 23d, and 24th. Some fruit and other trees were damaged by ice (rain freezing as it touched objects) in extreme northwest on the 4th.

Thunderstorms.---Well developed, attended by hail, in Ozark Plateau, night of 3d, 4th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Max. velocity. Direction.	Max. velocity. Date.
Columbia	30.13	84	70	181	58	6,480	9.3	31	sw.	29
Hannibal	30.14	79	..	...	..	6,891	9.9	28	n.	4
Kansas City	30.15	78	65	197	63	9,011	12.9	48	n.	4
St. Joseph	30.14	86	70	182	58	6,553	9.4	35	nw.	4
St. Louis	30.13	80	65	160	51	9,143	13.1	35	nw.	20
Springfield	30.14	88	68	166	53	7,519	10.8	34	w.	29
Cairo, Ill	30.13	78	60	...	..	7,609	10.9	37	n.	26
Keokuk, Iowa	30.16	78	69	180	58	5,770	8.3	27	nw.	9

COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	33.0	+2.0	73	−11	2.04	−0.28	......	.....	7	....	....	....
1889	29.3	−1.7	73	− 9	2.57	+0.25	...	.....	7	....	....	....
1890	35.5	+4.5	81	− 7	2.24	−0.08	......	.....	7	....	....	....
1891	32.7	+1.7	76	− 8	2.28	−0.04	......	2.4	6	....	....	....
1892	37.7	+6.7	71	2	4.15	+1.83	......	.....	9	7	6	16
1893	27.9	−3.1	65	−20	1.98	−0.34	2.30	4.6	6	10	7	11
1894	30.8	−0.2	72	−12	2.52	+0.20	2.60	11.2	6	10	8	10
1895	23.6	−7.4	77	−26	0.55	−1.77	1.10	3.3	5	10	10	8
1896	35.6	+4.6	81	−10	1.61	−0.71	2.20	4.1	5	12	8	9
1897	34.8	+3.8	74	−15	2.30	−0.02	3.60	8.2	7	7	7	14
1898	35.4	+4.4	78	− 9	1.62	−0.70	2.90	0.8	5	13	6	9
1899	20.4	−10.6	72	−32	2.17	−0.15	4.30	5.3	6	12	8	8
1900	26.2	−4.8	70	−16	3.92	+1.60	2.85	16.6	10	10	6	12
1901	28.1	−2.9	76	−19	1.63	−0.69	2.36	7.6	6	13	7	8
1902	24.0	−7.0	72	−17	1.50	−0.82	2.35	5.8	5	11	8	9
1903	29.8	−1.2	74	−25	2.92	+0.60	2.65	5.3	7	11	6	11
1904	30.0	−1.0	82	−18	0.91	−1.41	1.46	1.5	5	11	8	10
1905	21.5	−9.5	69	−40	1.64	−0.68	1.20	13.2	8	11	6	11
1906	33.7	+2.7	73	−13	2.28	−0.04	2.40	4.1	7	15	6	7
1907	34.8	+3.8	77	−15	1.65	−0.67	3.72	4.5	6	12	5	11
1908	35.6	+4.6	78	− 7	4.32	+2.00	4.28	4.1	9	13	6	10
1909	38.8	+7.8	71	− 4	3.38	+1.06	2.50	3.1	9	13	5	10
1910	28.3	−2.7	72	−24	1.98	−0.34	3.00	7.7	6	12	6	10
1911	38.1	+7.1	87	0	3.64	+1.32	2.08	6.3	8	12	5	11
1912	28.3	−2.7	72	−12	2.45	+0.13	3.20	11.9	6	10	7	12
1913	29.8	−1.7	78	− 9	2.21	−0.18	4.78	8.5	7	12	5	11
1914	28.3	−3.2	75	−11	2.71	+0.42	2.80	14.0	7	12	6	10
1915	39.4	+8.0	72	7	3.18	+0.81	2.05	4.1	8	9	5	14
1916	31.4	+0.2	78	−12	0.98	−1.48	2.70	5.0	5	13	6	10
1917	30.5	−1.0	83	−22	0.41	−2.03	1.24	1.4	2	14	7	7
1918	34.9	+4.6	83	−25	1.11	−1.26	2.00	0.6	4	15	6	7
1919	35.3	+4.0	71	−10	1.98	−0.35	2.20	6.4	7	13	4	11
1920	34.5	+3.2	78	− 5	0.57	−1.68	1.41	1.2	4	11	6	12
1921	40.1	+9.1	86	5	0.94	−1.33	2.00	1.8	4	14	6	8
1922	35.4	+4.1	80	− 5	1.79	−0.44	1.65	1.9	5	14	6	8
1923	30.2	−1.2	75	− 9	1.37	−0.88	2.20	1.4	5	13	5	10
1924	33.8	+2.0	79	− 5	1.84	−0.31	1.60	8.1	7	14	4	11
......	......	....	.....	......	......	....	......	.....	....	....	....	....

Climatological Data for February, 1924.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	45	30.9	+ 1.8	66	2	− 1	8	41	1.34	−0.51	0 47	15.7	7	16	0	13	nw.	O. K. Benecke
Clifton Hill	Randolph	731	25	31.0	+ 1.8	65	2	− 5	8	33	1.70	+0.37	0.62	15.1	9	12	5	12	......	Dr. A. J. Bradsher
Columbia	Boone	748	34	32.7	+ 0.9	67	2	1	8	33	1.95	−0.27	0.66	10.3	9	14	1	14	w.	U. S. Weather Bureau
Downing	Schuyler	878	3	29.0	......	64	2	− 1	7†	35	2.24	+0.84	0.65	19.0	7	8	8	13	w.	E. E. St. Clair
Fayette	Howard	661	^{a}44	....	......	..	..	....	..	..	1.40	−0.50	0.70	12.7	4	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	36	32.7	0.0	64	29	4	7	36	2.11	+0.22	1.30	8.6	9	15	3	11	w.	Westminster College
Gorin	Scotland	700	37	....	......	..	..	....	..	..	1.06	−0 43	0.40	6.8	5	13	2	14	s[illegible].	J. W. Pulliam
Hannibal	Marion	534	32	31.8	+ 2.1	64	3	3	8	29	1.35	−0.32	0.52	8.6	9	14	4	11	nw.	U. S. Weather Bureau
Jefferson City	Cole	557	36	32.6	+ 1.7	65	13	− 4	5	42	1.50	−0.59	0.60	4.0	6	16	0	13	nw.	Miss Emma Swift
Kirksville	Adair	969	35	30.0	+ 4.1	64	2	− 1	7	45	1.70	−0.12	0.65	13.0	5	16	1	12	n.	Prof. J. S. Stokes
Louisiana	Pike	469	30	32.7	+ 3.0	58	29	3	8	26	2.33	−0.02	0.90	8.5	10	17	2	10	n.	J. T. Farrell
Macon	Macon	875	25	30.0	+ 1.3	63	2	0	7	37	1.66	−0.29	0.56	14.3	6	15	7	7	nw.	W. C. Brown
Mexico	Audrain	800	35	31.7	+ 2.4	65	2	1	7†	32	1.83	−0.38	0.50	11.0	12	16	0	13	w.	Mrs. Abbie Snoddy
Palmyra	Marion	652	25	29.6	+ 1.7	64	2	1	8	36	1.09	−0.86	0.50	6.5	3	16	0	13	nw.	Highway Department
St. Catharine	Linn	800	13	30.5	+ 1.5	59	2†	− 2	8	31	1.10	−0.14	0.42	14.5	7	14	3	12	nw.	L. D. Baker
St. Charles	St. Charles	456	36	35.4	+ 2.9	76	3	9	8	35	1.71	−0.92	0.53	1.5	10	11	8	10	n.	L. C. Saeger
St. Louis (1)	St. Louis City	717	50	35.6	+ 1.1	66	3	13	6	30	1.29	−1.58	0.49	2.3	8	14	5	10	nw.	U. S. Weather Bureau
St. Louis (2)	....do	578	12	34.7	+ 2 5	66	29	12	6†	31	1.47	−0.84	0.50	3.5	9	14	6	9	w.	St. Louis University
Shelbina	Shelby	779	31	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	....
Steffenville	Lewis	650	26	31.2	+ 2.8	62	2†	− 2	7†	38	1.50	−0.35	0.60	13.0	6	14	6	9	w.	Frank Hall
Unionville	Putnam	1,062	31	29.8	+ 4.4	64	2	− 3	8	35	1.70	−0.13	0.35	11.5	7	13	5	11	nw.	Geo. W. Davis
Warrenton	Warren	816	42	33.2	+ 3.3	63	29	6	7	32	1.76	−0.43	0.94	4.0	7	14	1	14	n.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	52	29.8	+ 1.4	62	3	2	7	27	0.93	−0.75	0.36	12.0	7	14	2	13	n.	U. S. Weather Bureau
Section means and	extremes	.....	..	31.6	+ 1.9	76	3	− 5	8	45	1.58	−0.36	1.30	9.8	8	14	3	12	nw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	28	42 3	+ 3.4	74	28	17	7	46	2.77	−1.03	0.90	2.0	6	11	7	11	e.	H. E. Averill
Doniphan	Ripley	344	20	38.2	+ 0.1	69	13	13	7	44	2.33	−0.82	0.77	T.	7	11	12	6	n.	W. W. Martin
Jackson	Cape Girardeau	428	33	36.6	+ 1.1	68	3	10	6	41	2.98	+0.09	0 70	7.5	11	8	9	12	n.	John G. Putz
Marble Hill	Bollinger	470	29	37.9	+ 2.6	67	3†	12	6	45	2.68	−0.60	0.90	3.0	10	17	3	9	n.	R. A. DeWitt
Parma	New Madrid	281	3	....	......	..	..	....	..	..	1.64	.....	0.54	0	5	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	15	....	......	..	..	....	..	..	2.27	+0.33	1.60	5.0	5	..	..	..	...	George F. Ellis.
Poplar Bluff	Butler	339	20	38.6	+ 2.3	67	14	14	6†	42	2.19	−0.77	0.83	1.5	8	15	5	9	s.	Rev. J. A. Gallaher
Vanduser	Scott	304	23	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	37 8	− 0.7	69	3	15	6	29	1.47	−1.97	0.61	2 4	9	7	10	12	n.	U. S. Weather Bureau
Section means and	extremes	....	..	38.6	+ 1.4	74	28	10	6	46	2.29	−0.68	1.60	2.7	8	11	8	10	n.	
Ozark Plateau.																				
Arcadia	Iron	926	43	34.8	+ 1.3	69	2	8	6	45	2.85	−0.31	0.84	5.5	8	16	2	11	e.	Arcadia College
Birchtree	Shannon	1,000	29	37.5	+ 2.6	70	2†	9	6	42	1.83	−0.66	0.85	1.0	6	16	3	10	n.	V. H. Kirkendall
Bolivar	Polk	1,071	30	31.8	− 2.6	55	2	− 1	6	21	1.50	−0.79	0.75	3.7	5	10^{a}	7^{a}	11^{a}	nw.	Southwest Baptist College
Dean ††	McDonald	1,000	25	....	......	..	..	....	..	..	2.43	+0.60	....	....	4	..	..	..	......	H. E. Dean
Eldon	Miller	931	28	34.0	+ 2.1	70	2	0	6	42	1.86	−0.24	0.52	11.0	6	12	7	10	nw.	E. H. Shepherd
Farmington	St. Francois	918	13	35.4	− 0 2	66	3	9	6	37	2.19	−1.10	0.70	7.0	8	12	7	10	ne.	Robert Forsyth
Gano ††	Dent	1,250	20	35.0	+ 0.5	67	2	6	6	35	2.08	−0.30	0.64	6.2	7	15	2	12	nw.	A. C. Leach
Goodland	Iron	1,000	30	34.8	+ 1.9	68	3	9	6†	50	1.93	−0.56	0.83	5.0	6	16	3	10	n.	F. M Adams
Greenville	Wayne	381	2	38.4	......	76	13	11	7	51	2.56	......	1.12	4.5	8	15	4	10	s.	A. M. Rhodes
Hollister	Taney	735	37	41.5	+ 3.5	79	14	5	6	51	1.38	−0.70	0.60	1.0	4	14	5	10	sw.	Mrs. W. P. Chapmann
Koshkonong	Oregon	958	23	39.6	+ 2.1	71	2	10	6	40	2.66	−0.13	1.01	T.	6	13	2	14	nw.	R. M. Hitt
Lebanon	Laclede	1,265	36	33.8	− 0.1	71	14	− 2	6†	41	2.73	+0.23	1.08	6.5	12	15	4	10	n.	Thomas E. Mulcare
Lockwood	Dade	1,078	18	37.8	+ 2.3	70	14	7	6	34	1.56	−0.41	0.89	6.2	5	14	4	11	nw.	C. S. Crow
Mountain Grove	Wright	1,463	23	35.4	+ 1.6	69	2	3	6†	38	0.80	−1.46	0.30	1.0	6	12	6	11	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	36	39 0	+ 2.4	75	14	− 5	6	44	2.07	−0.31	0.65	5.0	5	15	3	11	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	24	36.0	+ 0.8	70	2	5	6†	38	1.62	−0.72	0.62	9.2	8	16	1	12	n.	Prof. Elmo G. Harris
Seligman	Barry	1,542	22	38.4	+ 2.2	72	14	− 1	6	34	1.52	−0.36	0.82	1.0	5	13	7	9	sw.	Floyd E. Fawver
Seymour	Webster	1,642	18	36.6	+ 4.2	69	14	− 2	6	39	0.60	−1.85	0.31	1.7	5	15	4	10	nw.	Ira H. Hailey
Springfield	Greene	1,350	36	36.4	+ 1.0	70	14	0	6	31	1.23	−1.15	0.60	4.6	8	14	4	11	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	36.3	+ 1.6	79	14	− 5	6	51	1.82	−0.59	1.12	4.7	6	14	4	11	nw.	
Southwest Plain.																				
Appleton City	St. Clair	853	30	35.9	+ 3.6	68	2†	− 1	6	35	2.65	+0.68	0 94	7.2	10	13	6	10	sw.	W. G. Bigelow
Clinton	Henry	765	31	36.2	+ 4.3	66	29	0	6	34	2.41	+0.31	0.75	10.0	6	14	5	10	ne.	A. E. Derwent, M. D
Harrisonville	Cass	904	47	32.6	+ 2.9	68	2†	0	7†	38	1.72	−0.30	0.74	9.5	6	7	5	17	nw.	John H. Patterson
Lamar	Barton	980	37	35.4	+ 0.9	72	14	− 2	6	39	3.00	+0.77	1.35	5.0	6	12	5	12	sw	Jesse A. Mann
Lamonte	Pettis	867	23	35.4	+ 3.8	69	2	− 3	6†	37	2.68	+0.77	....	12.4	9	16	5	8	e.	J. E. Wheeler
Marshall	Saline	779	35	31.9^{b}	+ 2.4	65	2	0	6†	33	1.98	+0.14	0.45	16.0	9	15^{a}	4^{a}	9^{a}	nw.	Dr. W. H. Black
Nevada	Vernon	862	31	37.0	+ 5.1	70	14	− 1	6	34	2.08	0.00	0.90	5.0	4	17	3	9	n.	George A. Kaupp
Warrensburg	Johnson	878	37	34.6	+ 3.3	69	13	− 2	6†	36	1.59	−0.54	0.70	12.2	7	14	4	11	nw.	E. A. Markey.
Warsaw	Benton	687	24	36.0	+ 2.2	70	2	− 2	7	49	2.91	+0.35	0.81	13.0	7	11	9	9	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	35.0	+ 3.2	72	14	− 3	6†	49	2.34	+0.24	1.35	10.0	7	13	5	11	nw.	
Northwest Plateau.																				
Avalon	Livingston	730	34	33.0	+ 3.4	65	2	0	6	31	2.25	+0.33	1.25	16.0	2	16^{a}	3^{a}	9^{a}	ne.	F. G. Ashbaugh
Bethany	Harrison	916	32	29.6	+ 2.6	67	3	− 1	6	46	1.85	+0.41	0.52	12.0	9	14	1	14	ne.	Owen Ross
Chillicothe	Livingston	779	15	29.7	− 2.8	67	2	− 1	7†	40	1.27	−0.74	0.65	10.0	5	15	3	11	nw.	Wm. J. Olenhouse
Conception	Nodaway	980	35	31.8	+ 4.7	64	2	− 3	6	36	1.38	−0.19	0.56	9.5	4	15	4	10	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	4	31.0^{c}	....	68	2	− 5	7	39	1.24	−0.21	0.65	8.4	6	18^{a}	0^{a}	10^{a}	s.	Fred L. Stiff
Grant City	Worth	1,134	20	32.0	+ 4.7	68	2	7	5†	37	2.09	+0.97	0.59	13.5	7	14	5	10	ne.	B. F. Locke
Kansas City	Jackson	963	35	34.6	+ 3.4	69	2	3	6	28	1.16	−0.50	0 68	10.6	8	15	3	11	n.	U. S. Weather Bureau
Kidder	Caldwell	1,020	31	29.4	+ 1.6	67	2	− 1	6†	41	1.78	+0.26	0.85	10.5	5	18	1	10	nw.	Linn Terry
Lexington	Lafayette	688	39	34.0	+ 4.6	70	3	1	6	36	1.78	−0.22	0.55	10.7	7	15	3	11	n.	Edwin G. Loomis
Liberty	Clay	859	34	....	......	..	..	....	..	..	....	......	....	....	.	..	..	..	..	....
Maryville	Nodaway	1,169	34	31.0	+ 6.9	69	2	− 1	6	37	1.78	+0.23	0.50	12.7	8	17	2	10	n.	J. R. Brink
Oregon	Holt	1,048	68	32.0	+ 3.8	65	2	− 1	6	30	1.54	−0.08	0.72	14.6	3	15	5	9	nw.	Tom Curry
St. Joseph	Buchanan	967	16	32.5	+ 2.4	71	2	2	6	32	1.70	+0.21	0.78	11.4	8	15	4	10	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	21	29.8	+ 1.8	69	2	− 1	6	45	1.26	+0.19	0.53	10.0	4	17	0	12	nw.	Albert Volker
Trenton	Grundy	822	28	30.2^{a}	+ 1.7	57	2	2	6	29	1.53	0.00	0.70	9.0	6	18	3	8	ne.	W. H. Estes
Section means and	extremes	.....	..	31.5	+ 3.0	71	2	− 5	7	46	1.62	−0.14	1.25	11.4	6	16	3	10	nw.	
State means and	extremes	.....	..	33.8	+ 2.0	79	14	− 5	7	51	1.84	−0.31	1.60	8.1	7	14	4	11	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for February, 1924.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri				.08	.51	.15					.05					.40	.34	.01	.06				.08	.16								1.84
Brunswick‖	Grand				.04	.47	.02											.38		.10				.03	.30								1.34
Clifton Hill	Chariton				.02	.62				.30		T.					.08	.06	T.	.03	T.			.07	.40	.12							1.70
Columbia***	Missouri				.30	.37						.02				T.	.50	.28	.10	.01	T.			.12	.25								1.95
Downing	Mississippi				.50	.24											.40	.02		.65				.18	.25								2.24
Fayette‖	Missouri				.05	.70											T.	T.	T.	.25					.40								1.40
Fulton	do				.10	.10				T.		.03					.20	1.30	.03	.05	T.			.05	.25								2.11
Gorin	Mississippi				.40												.38			.11				.10	.07								1.06
Hannibal***	do				.43	.17	.01					T.		T.			.26	.16	.02	.05	T.			.04	.21								1.35
Hermann‖	Missouri				.04	.20	.12					T.					.02	.75	.36	.03				.04	.05								1.61
Jefferson City‖	do				.16	.20											.16	.60						.17	.21								1.50
Kirksville	Mississippi				.65											.09	.45		.16						.35								1.70
Louisiana	do				.90	.12	.15					.02		.02			.20	.60	T.	.15		T.		.02	.15								2.33
Macon ‖	Chariton				.19	.38	.05											.34		.14					.56								1.66
Mexico ‖	Mississippi				.03	.45	.29						.02				.02	.50	.04	.07	.10			.05	.20	.06							1.83
Milan ‖	Grand					.50												.15		.05					.30								1.00
Pacific‖	Meramec				.42	.05	.09				.01	T.	.02				.03	.55	.03	.06	.07	T.		.20	.01								1.54
Palmyra‖	Mississippi						.34											.50								.25							1.09
St. Catharine	Grand				.42	.19	T.										.10	.15	T.	.12	T.			.04	.08								1.10
St. Charles	Missouri				.48	.10	.05			T		.13					.13	.53	.10	.06	.02			.11									1.71
St. Louis (1)***	Mississippi				.36	.08	T.			T.		.02		T.			.41	.22	.03	.05	T.	T.		.12	T								1.29
St. Louis (2)	do				.40	.10	.04			T.		.04		T.			.50	.11	.05	.01	T.			.22	T.								1.47
Shelbina	do																																....
Steffenville	do				.20	.60											.25	.20	T.	.15	T.			T.	.10		T.						1 50
Union‖	Meramec				.46	.10	.05					.01	.01				.05	.75	.14	.12				.16	T.	.09							1.94
Unionville	Chariton				.30	.20											.30	.35	T.	.25				.10	.20								1.70
Valley Park‖	Meramec				.64	T.	.06				T.	T.	.02				.02	.58	.06	.09	T.	T.		.13	T	T.							1.60
Warrenton	Mississippi				.37	.10						.04					.13	.94		T.	T.			.12	.06								1.76
Keokuk, Ia.***	do				.20	.25	T.										.20	T.	.02	.12	T.			.11	.03								0.93
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi	.09			.31	T.	.05				.10		.14				T.	.36	.38	.07	.32	.08		.15	.01								2.06
Caruthersville	do				.10	T.	T.					90						.67	.10	.65	T.			.35									2.77
Doniphan	Black				.77	T.				.05		.07					.06	.40		.75				.23									2.33
Jackson	Mississippi				.40	.15	.10			.10		.17					.09	.63	.70	.32		T.		.27	.05								2.98
Leeper ‖	Black				.60		.05					.10						.84		.15				.05									1.79
Marble Hill	Mississippi				.65	.12	.10			.10		.12					.12	.90	.12	.25				.20									2.68
New Madrid‖	do	.02			.32	.01	.02				.01	.08	.36					.10	.21	.11	.73			.30	.02								2.29
Parma	St. Francis				54							.40						.20	.10	.40													1.64
Patton (near)	Mississippi											.20					.10	1.60	.07					.30									2.27
Poplar Bluff	Black				.83	T.				.03		.33					.06	.38	.02	.35				.19									2.19
Vanduser	Mississippi																																....
Cairo, Ill.***	do				.19	.02				.01		.15					.04	.28	.02	.61	T.	T.		.15	T.								1.47
Ozark Plateau.																																	
Annapolis‖	St. Francis			.91		.18				.05		.04				.88	.20	.14					.26										2.66
Arcadia ‖	do	T.			.84		.03					.23	T.				T.	.74	.62	.01	.02			.36									2.85
Birchtree	Black				.85	T.						.25					.25	.25		.08				.15									1.83
Bolivar‖	Osage				.75	.16				.04	.25	.30																					1.50
Dean	Neosho				.60							.80				* *	1.03																2.43
De Soto‖	Mississippi				.42	.08						.10					.11	.59		.02				.20									1.52
Eldon	Missouri				.30	.52											.46	.32			T.			.21	.05								1.86
Farmington	St. Francis				.70	.03	T.			.09		.21					.13	.70	T	.08				.25									2.19
Fredericktown‖	do					.03			.06		.96	.20	.03	.07			.05		.09	.07	.04		.03	.25	.04	T.			T.				1.92
Galena‖	White			.27	.03							.60				.07		.30															1.27
Gano	Meramec				.50	.10						.38					.18	.58	.06	T.				.28	T.								2.08
Goodland	Black				.02					.05		.83					.05	.80						.18									1.93
Greenville	St. Francis				.65	.05					T.	.11					.05	1.12	.05	.24				.29									2.56
Hollister	White	.20	.08									.60					.50																1.38
Jerome ‖	Gasconade				.08	.40						T.								.30				.40									1.18
Koshkonong	Black				1.01	T.						.47					.24	.33		.31				.30									2.66
Lebanon ‖	Osage				.30	.08	.07			.05	.05	.30	.12				.16	1.08	.14					.10	.28								2.73
Lockwood	do				.22	.33					T.	.02					.89	.10	T.						T.								1.56
Mineral Point‖	Meramec			.40			.01					.01					.10	.50						.02									1.04
Mountain Grove‖	White	T.			T.	.13	T.				T.	.03					.24	.30	T.	T.				.02	.08								0.80
Neosho	Neosho				.38	.33				T.		.55				T.	.65	.16	T.		T.			T	T.								2.07
Rolla	Meramec			T.	.27	.05				.06	.22					T.	.62	.10	T.	T.	T.		.26	T.	.04					T.			1.62
Seligman	Neosho				.24	.02						.82					.26	.18															1.52
Seymour	White				.12	.08				T.		.06					.31		T.	T.				.03	T.								0.60
Springfield***	do			.09	.55	.02				T.	.01	.17					.27	.11	.01	T.	T.	T.	T.	T.	T.					T.			1.23
Steelville‖	Meramec				.53	T.	.10				.19		.26					.76		.09				.15	.29								2.37
Tuscumbia‖	Osage	T.			.19	.42	.04					.13					.06	.56	T.	.02				.15	.06								1.63
Willow Springs‖	Black				.70	.20				T.		.21					T.	.57		T	T.		.10										1.78
Southwest Plain.																																	
Appleton City	Osage				.60	.14	.06			.06		.20					.94	.41	.02	.01	T.			.21									2.65
Clinton	do				.75	.32											.70	.50	.02						.12								2.41
Harrisonville‖	do				.16	.54						.09					.15	.74							.04								1.72
Joplin*	Neosho				1.24					T.	T.	.36					.97	.02															2.59
Lamar ‖	do				.56	.32					T.	.40					.35	1.35		T.				.02									3.00
Lamonte	Missouri			* *	* *	* *	1.57									T.	.41	.46	.01	.08				.15									2.68
Marshall	do				.30	.42	.06										.35	.05	.05		T.		.15	.45	.15								1.98
Nevada	Osage				.26							.50					.90	.42						T.									2.08
Osceola‖	do				.57	.53						.38	.25				.42	.85	.10					.12	.16								3.38
Warrensburg	Missouri				.70	.14						.06					.41	T.	.05	T.	T.			.20	.03								1.59
Warsaw	Osage				.25	.81					T.	45					.29	.76	T.		T.	T.		.13	.22								2.91
Waverly ‖	Missouri	T.			.30	.36	.03					T.					T.	.47		.10		T.	.07	.64									1.97
Northwest Plateau.																																	
Albany‖	Grand					.80												2.02	.10				T.		.23								3.15
Avalon	do						1.25																		1.00								2.25
Bethany	do				.22	.37											.52	.11	.02	.08	.03			.09	.41								1.85
Chillicothe‖	do					.65											T.	.34		.15				.04	.09								1.27
Conception	Missouri				.50													.56	.10					.22									1.38
Edgerton	do				.65	.05											.26		.12		T.			.02	.14								1.24
Gallatin	Grand				T.	.30												.40		.10					.30								1.10
Grant City	do				.50	T.											.59	.25	T.	.06	.02			.15	.52								2.09
Kansas City***	Missouri			T.	.68	.08						.03				.01	.16		.06		T.		T.	.05	.09								1.16
Kidder ‖	Grand					.38	.14											.85		.05					.36								1.78
Lexington	Missouri					.40	.08										.18	.55		.07				.15	.35								1.78
Liberty	do																																....
Maryville	do				.50	.30											.25	.25	.05	.03			T.	.20	.20								1.78
Oregon	do				.72	T.											.52		T.					T.	.30								1.54
St. Joseph***	do			T	.76	.04										.02	.28	.20	.07	T.	T.		T.	.23	.10								1.70
Tarkio	do				.53												.32		.06		T				.35								1.26
Trenton	Grand				.70	.10										T.	.48		.10		T.	T.		.13	.02								1.53

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch.
*** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for February, 1924.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	45	66	60	34	17	18	25	31	42	42	48	47	51	62	50	37	35	32	32	22	32	42	36	32	38	44	50	58	62	..	..	41.0
	Minimum	30	32	34	32	15	1	1	-1	1	20	25	30	29	31	32	34	33	29	27	16	12	13	26	22	9	9	12	19	29	..	..	20.8
Columbia	Maximum	41	67	66	44	18	17	23	32	40	40	45	46	60	57	47	40	35	32	32	28	30	40	36	32	34	41	48	56	64	..	..	41.1
	Minimum	33	34	44	18	10	4	3	1	26	23	31	29	35	30	37	34	32	28	28	16	14	23	32	28	11	16	21	27	36	..	..	24.3
Fayette	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Hannibal	Maximum	39	63	64	41	20	19	22	29	40	40	46	40	55	53	43	34	34	31	29	26	28	39	34	32	35	41	48	56	62	..	..	39.4
	Minimum	32	34	41	20	12	10	5	3	24	24	26	30	31	31	32	32	30	28	26	17	12	19	32	24	16	20	26	29	37	..	..	24.2
Jefferson City §§	Maximum	42	50	54	23	23	23	26	40	44	42	45	47	65	64	54	42	46	35	35	50	31	42	26	33	39	49	58	62	64	..	..	43.2
	Minimum	40	35	38	6	-4	-2	-2	1	2	16	18	20	24	32	36	35	32	30	29	31	22	21	24	20	24	22	25	28	31	..	..	21.9
Kirksville	Maximum	44	64	53	62	53	19	23	27	41	42	45	43	55	54	45	35	32	31	30	27	24	37	35	32	35	40	50	55	56	..	..	41.0
	Minimum	29	29	17	19	10	4	-1	2	16	19	25	26	26	30	32	28	22	24	22	9	6	10	29	21	8	10	21	20	35	..	..	18.9
Louisiana	Maximum	54	55	55	53	38	30	26	26	35	40	43	45	52	55	54	45	35	35	32	30	26	37	40	34	33	40	45	53	58	..	..	41.5
	Minimum	34	30	30	34	18	10	7	3	20	24	24	30	28	29	38	32	32	28	28	20	14	14	24	27	12	18	25	25	35	..	..	23.9
Macon §§	Maximum	41	63	53	34	17	18	23	33	40	41	47	41	59	59	49	33	33	30	29	33	41	44	34	33	37	42	49	55	60	..	..	40.4
	Minimum	26	30	30	29	3	5	0	1	6	18	27	25	26	29	32	30	9	26	25	12	10	30	32	23	9	8	12	23	30	..	..	19.5
Mexico §§	Maximum	40	65	66	38	20	13	25	29	40	40	45	44	60	58	47	37	34	30	32	30	31	42	35	30	36	42	49	57	65	..	..	40.7
	Minimum	30	34	36	34	15	8	1	1	20	20	26	27	31	30	32	32	31	28	23	18	12	13	30	27	9	10	21	25	34	..	..	22 7
St. Catharine	Maximum	42	59	59	51	21	17	23	26	41	41	42	45	58	56	50	39	33	32	30	29	25	38	37	33	35	41	48	54	54	..	..	40.0
	Minimum	28	30	42	20	13	0	0	-2	18	19	25	26	31	29	33	31	27	27	23	11	8	15	30	24	11	11	20	28	32	..	..	21.0
St. Louis(1)	Maximum	42	65	66	59	35	23	28	29	40	41	47	44	59	57	48	36	36	34	31	30	33	42	37	33	39	45	49	58	65	..	..	43.1
	Minimum	35	35	44	35	14	13	13	16	23	27	32	33	32	36	36	33	33	30	26	22	19	24	33	28	21	25	29	32	40	..	..	28.2
Unionville	Maximum	45	64	62	53	23	15	22	27	40	42	44	42	55	52	44	44	34	32	31	30	30	38	35	34	35	40	46	55	56	..	..	40.3
	Minimum	30	31	36	18	10	1	0	-3	16	17	30	26	30	30	31	28	26	24	23	6	4	8	28	20	4	8	16	30	31	..	..	19.3
Warrenton	Maximum	49	62	62	60	35	17	23	27	38	42	43	44	55	55	53	45	36	32	28	28	27	38	38	33	35	42	45	54	63	..	..	41.7
	Minimum	31	30	46	34	16	9	6	7	21	24	27	28	29	30	35	32	30	27	27	19	14	18	31	28	16	19	22	27	34	..	..	24.7
Southeast Lowlands.																																	
Caruthersville	Maximum	57	57	72	62	42	33	41	42	54	57	43	58	69	71	72	56	62	44	40	40	42	50	42	45	42	42	56	74	70	..	..	52.9
	Minimum	39	32	43	42	22	18	17	20	23	33	33	31	29	39	40	45	42	34	33	31	22	25	33	35	31	33	33	28	33	..	..	31.7
Doniphan	Maximum	59	62	67	63	41	30	38	39	41	41	42	53	69	65	63	54	50	38	35	38	37	43	41	41	44	46	55	58	65	..	..	48.9
	Minimum	35	25	43	38	21	14	13	15	20	30	29	29	25	36	31	39	36	32	31	29	19	16	31	33	29	28	28	20	23	..	..	27.5
Jackson	Maximum	49	61	68	63	47	28	32	34	41	46	41	47	56	61	58	50	48	37	34	34	35	45	41	38	42	44	51	60	64	..	..	46.7
	Minimum	32	25	41	45	19	10	13	15	20	31	21	33	25	29	33	35	35	31	30	28	19	17	31	28	25	27	28	21	23	..	..	26.6
Poplar Bluff	Maximum	58	59	64	63	43	39	40	33	42	53	42	49	64	67	57	54	48	39	36	34	36	41	42	40	40	44	60	51	64	..	..	48.3
	Minimum	38	29	43	41	22	14	14	17	23	30	30	32	22	37	36	40	37	33	31	30	19	18	31	33	29	29	29	25	30	..	..	29.0
Cairo, Ill.	Maximum	48	59	69	59	40	29	32	32	42	44	36	46	56	59	56	48	50	36	35	35	34	42	38	39	41	41	50	56	63	..	..	45.3
	Minimum	36	30	46	40	19	15	16	18	23	33	31	32	31	37	38	38	36	34	30	24	23	24	32	32	28	30	33	31	35	..	..	30.2
Ozark Plateau.																																	
Arcadia §§	Maximum	47	69	66	56	21	28	35	40	39	50	47	51	67	68	55	42	42	32	32	31	38	41	34	35	43	48	55	64	62	..	..	46.1
	Minimum	31	25	33	41	19	8	9	11	13	22	25	28	24	29	29	32	35	29	29	26	16	13	13	30	24	23	24	19	21	..	..	23.5
Birchtree	Maximum	51	70	68	60	35	28	34	43	44	45	46	53	63	70	63	52	43	34	32	33	34	40	38	42	44	48	55	60	65	..	..	48.0
	Minimum	36	28	47	35	16	9	10	14	15	20	32	30	35	38	38	40	33	31	30	26	17	16	30	30	27	24	25	22	29	..	..	27.0
Eldon	Maximum	49	70	66	48	22	20	28	35	41	42	45	50	64	63	51	46	41	34	32	29	34	41	37	36	40	45	51	59	69	..	..	44.4
	Minimum	35	35	40	21	6	0	3	9	27	23	22	31	29	30	34	36	32	29	27	19	14	18	30	29	20	19	21	22	27	..	..	23.7
Farmington	Maximum	46	65	66	58	45	24	29	33	37	42	44	45	63	60	54	45	37	33	31	28	33	46	38	33	38	42	49	61	64	..	..	44.4
	Minimum	38	28	40	43	18	9	10	12	20	28	28	29	27	34	34	35	30	29	28	23	15	16	32	31	23	22	23	25	34	..	..	26.3
Hollister	Maximum	65	76	78	72	60	28	38	50	52	48	49	60	72	79	75	70	50	49	52	48	40	48	62	60	49	48	50	60	70	..	..	57.2
	Minimum	28	25	28	30	15	5	15	12	25	26	28	28	25	30	35	30	35	38	40	30	28	30	20	26	26	24	28	15	22	..	..	25 8
Koshkonong	Maximum	56	71	68	61	36	29	40	45	45	47	44	56	69	68	66	56	45	36	33	37	37	47	38	39	44	48	55	59	65	..	..	49.7
	Minimum	38	34	47	35	18	10	12	17	24	30	32	32	29	38	43	42	35	32	31	28	19	21	30	32	29	26	28	32	35	..	..	29.6
Lebanon §§	Maximum	47	69	68	40	19	18	28	41	39	46	45	51	64	71	53	49	36	32	33	29	34	39	40	40	40	47	52	57	63	..	..	44.5
	Minimum	33	33	39	35	12	-2	-2	5	16	24	24	25	25	30	31	38	32	29	27	25	12	13	25	31	24	18	18	20	27	..	..	23.0
Mountain Grove §§	Maximum	47	69	68	41	19	18	31	45	41	47	45	54	63	68	67	47	39	32	31	29	47	37	37	41	37	50	54	59	63	..	..	45.7
	Minimum	35	34	38	40	14	3	3	10	14	26	27	27	27	34	34	40	38	30	28	25	14	14	24	31	26	21	21	21	31	..	..	25.2
Neosho	Maximum	57	71	71	59	29	24	32	48	49	46	45	60	66	75	72	64	54	38	39	34	36	43	48	49	41	46	53	58	65	..	..	50.8
	Minimum	32	34	52	25	11	-5	5	17	32	26	33	26	32	31	45	46	33	33	31	23	17	23	35	30	30	23	19	19	30	..	..	27.2
Rolla	Maximum	43	70	67	66	32	19	26	38	37	47	45	49	65	66	59	47	42	32	31	29	33	39	38	37	41	48	53	59	65	..	..	45.6
	Minimum	35	32	51	31	15	5	5	10	26	26	31	29	30	33	42	37	31	29	29	20	15	18	31	32	23	21	21	24	32	..	..	26.3
Springfield	Maximum	48	69	65	47	18	17	28	41	41	41	44	52	65	70	67	53	46	35	32	28	32	38	42	37	40	46	50	55	61	..	..	45.1
	Minimum	34	39	47	18	10	0	9	16	30	26	32	31	37	39	50	42	31	31	28	19	15	25	31	29	26	22	23	30	35	..	..	27.8
Southwest Plain.																																	
Appleton City	Maximum	51	68	58	52	24	20	29	39	43	40	48	55	68	68	60	49	46	34	33	31	34	39	43	40	38	43	52	57	63	..	..	45.7
	Minimum	35	34	47	24	11	-1	2	9	30	23	30	30	34	33	37	43	32	31	30	19	14	21	32	30	23	21	23	26	31	..	..	26.1
Clinton	Maximum	52	59	62	55	23	20	28	40	46	45	49	52	62	65	56	52	38	36	34	32	38	50	48	43	40	40	52	62	66	..	..	46.4
	Minimum	36	35	45	22	10	0	2	10	30	24	30	30	30	35	38	40	30	30	29	20	15	26	30	30	23	21	22	32	32	..	..	26.1
Harrisonville §§	Maximum	55	68	55	21	13	18	32	34	35	42	52	52	68	63	47	41	34	32	31	26	34	38	40	30	38	42	52	59	65	..	..	42.0
	Minimum	34	35	35	20	10	1	0	0	18	29	29	29	30	34	37	38	31	29	28	17	12	13	27	29	20	18	18	22	28	..	..	23.1
Lamar §§	Maximum	51	71	59	35	16	20	31	45	41	40	47	57	68	72	65	50	34	34	32	31	35	41	48	34	40	45	50	56	63	..	..	45.2
	Minimum	35	35	38	33	13	-2	0	9	20	25	27	28	29	33	35	47	34	32	30	22	16	17	31	30	27	22	23	23	27	..	..	25.5
Lamonte	Maximum	53	69	60	49	21	20	32	37	42	44	47	50	62	65	49	44	41	34	31	30	35	40	38	56	58	59	59	66	66	..	..	46.8
	Minimum	33	33	47	19	12	-3	-3	0	20	16	26	26	33	30	36	36	29	28	27	15	12	21	31	26	27	26	26	32	32	..	..	23.9
Marshall	Maximum	45	65	59	50	21	17	25	28	41	42	45	52	61	58	52	44	34	30	..	30	30	40	34	..	34	39	44	55	61	..	..	[b]42.1
	Minimum	31	32	40	21	12	0	0	1	18	17	24	29	31	30	35	34	29	29	..	16	12	21	27	..	11	11	20	25	31	..	..	[b]21.7
Nevada	Maximum	53	69	60	52	25	20	28	40	42	40	45	53	67	70	62	51	47	44	33	30	35	41	49	43	40	45	51	58	61	..	..	46.8
	Minimum	35	37	50	25	10	-1	5	11	31	24	31	29	39	36	42	44	32	32	30	20	15	25	34	30	24	21	20	27	33	..	..	27 3
Warrensburg	Maximum	53	67	60	42	45	26	27	31	43	43	48	51	69	63	55	50	44	34	32	33	34	40	40	38	39	41	51	60	65	..	..	45.7
	Minimum	33	34	38	22	9	-2	-2	0	24	20	28	27	36	33	38	33	30	30	28	16	12	23	32	28	18	14	20	28	31	..	..	23.5
Warsaw	Maximum	50	70	65	57	33	19	30	39	47	42	47	51	65	66	61	51	48	46	29	33	32	40	44	42	40	41	50	67	65	..	..	47.2
	Minimum	36	34	44	23	11	1	-2	2	28	28	30	25	30	30	39	40	32	31	24	29	19	16	32	31	29	20	18	18	19	..	..	24.7
Northwest Plateau.																																	
Chillicothe §§	Maximum	51	67	60	30	14	18	24	28	42	42	46	48	58	57	45	34	33	30	30	20	29	40	34	33	33	40	50	57	59	..	..	39.7
	Minimum	30	32	34	29	12	0	-1	-1	2	19	23	27	28	29	31	31	28	27	26	11	9	10	28	24	9	10	11	20	32	..	..	19.7
Grant City	Maximum	54	68	64	53	24	21	30	29	44	40	48	51	62	56	47	39	37	30	33	30	27	37	36	35	37	41	47	55	55	..	..	42.4
	Minimum	33	31	40	22	7	7	16	12	26	18	28	26	33	31	32	30	24	25	24	17	5	15	28	21	1	6	9	29	33	..	..	21.7
Kansas City	Maximum	55	69	56	39	16	20	28	34	44	41	50	54	65	62	45	39	32	31	31	27	32	38	46	34	35	40	53	59	62	..	..	42.7
	Minimum	36	41	39	16	6	3	7	16	31	26	30	35	41	42	36	32	29	28	27	13	13	27	33	25	18	20	25	36	37	..	..	26.5
Kidder §§	Maximum	53	67	60	33	13	16	24	29	41	43	44	47	58	60	44	33	31	30	31	21	38	40	33	31	34	40	47	57	58	..	..	39.9
	Minimum	35	31	32	29	12	-1	-1	0	8	12	20	26	22	31	30	31	28	25	25	10	8	8	30	24	7	6	11	16	29	..	..	18.8
Lexington §§	Maximum	50	53	70	59	49	23	21	29	30	45	41	49	52	65	60	48	44	37	31	32	32	33	40	37	36	36	41	50	59	..	..	43 3
	Minimum	32	36	45	30	13	1	5	6	22	22	28	29	35	33	35	35	30	29	28	15	12	22	32	27	13	13	20	31	35	..	..	24.6
Maryville	Maximum	57	69	57	42	15	18	24	22	40	41	48	51	60	61	47	38	32	31	30	28	29	29	37	32	35	40	50	57	55	..	..	40.5
	Minimum	33	32	39	15	9	-1	1	10	22	20	32	26	33	35	33	28	27	25	24	9	5	19	28	22	5	13	19	30	33	..	..	21.6
Oregon	Maximum	55	65	56	41	25	17	21	32	41	38	47	48	60	56	44	44	37	30	32	23	28	39	36	34	34	38	47	55	56	..	..	40.7
	Minimum	32	35	38	18	6	-1	4	11	28	19	30	30	37	34	34	31	27	26	21	9	8	22	31	23	11	17	31	31	35	..	..	23 4
St. Joseph	Maximum	56	71	59	37	15	18	27	32	42	42	48	51	62	60	45	35	31	30	30	22	31	42	34	32	36	41	49	59	57	..	..	41.2
	Minimum	34	39	37	15	5	2	5	10	26	22	31	29	39	36	35	30	29	27	21	11	11	25	32	23	12	15	20	32	37	..	..	23.8
Trenton	Maximum	41	57	56	50	23	18	22	23	40	38	43	43	56	56	50	40	32	30	30	29	23	40	38	33	32	38	43	51	53	.	..	38.9
	Minimum	..	33	41	22	12	2	4	3	20	21	22	28	33	33	35	30	29	27	25	11	9	18	31	20	7	9	17	30	33	..	..	[a]21.6

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

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MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVIII. COLUMBIA, MO., MARCH, 1924. No. 3.

GENERAL SUMMARY.

Over all of Missouri March, 1924, was mainly cold, cloudy, and wet, although the precipitation while frequent, was not excessive. The outstanding features probable were the heavy snows rather persistent cold the first three weeks, and strong gales, thunderstorms and hail on the 28th, and 29th.

The chief adverse features were the hindrance to outdoor work in general and farm activities in particular, along with almost impassable roads. The usual business between town and country was carried on mainly by horse drawn vehicles.

The usual spring seeding was much behind, except in parts of the southwestern and southeastern sections where some progress was made during the last week. Winter wheat came through in fair to good condition. The main fruits were generally dormant. except in the extreme southeast.

TEMPERATURE.

The monthly mean temperature for the State, 66 stations reporting, was 38.4°, or 5.4° below the 36-year normal. It was the coldest March since 1915, and there have been but six that were colder in the past 37 years. There were few sudden temperature changes, the cold being persistent and steady in all sections. The first four days, and from about the 23d to the 29th, were the only days generally above freezing at night. From about the 5th to the 22d freezing occurred every night. The 27th was the only real warm spring-like day.

PRECIPITATION.

The average precipitation for the State, 101 stations reporting, was 2.55 inches, or about 0.45 inch leas than the 56 years' average. The precipitation was evenly distributed, although there was somewhat less in the southeastern lowlands than in the other sections. While it was frequent it was on most of the days light to moderate; in a general way the heaviest and most general precipitation fell on the 4th, 9-10th, 17th, 20th, 28th and 29th.

The snowfall was unusually heavy, the average for the State being over 9 inches. Snow was more or less general on the 9th, 13th, 17th, 19th, and 20th. The total monthly depths ranged from 8 to 20 inches in the Ozarks, and from about 6 to more than 10 inches north of the Ozarks. In Pike County 25.6 inches fell, 10 inches falling on the 20th.

WIND.

The prevailing winds were from the northwest. The average monthly movement, 8 stations equipped with anemometers reporting, was 6,679 miles, or nearly normal. Winds of from 40 to 60 miles an hour prevailed on 28th, and 29th. In some localities there occurred some of the associated features of the tornado, with damage to property and loss of life. See Special Storm Notes.

SUNSHINE AND CLOUDINESS.

There were only 8 clear days. The average number of hours of sunshine, 6 well placed stations equipped with sunshine recorders reporting, was 149. This is about 40 per cent of the possible, about 15 per cent less than normal, and 21 per cent less than March, 1923.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---On the 23d, and 28th.
Hail.---3d, 4th, 28th, and 29th.
Halos, solar.---8th, 9th, 12th, 16th, 20th, and 22d.
Halos, lunar.---12th, 14th, and 16th.
Sleet.---6th, 9th, and 16th.
Thunderstorms.---3d, 4th, 25th, 28th, and 29th.

SPECIAL STORM NOTES.

Thunderstorms attended by strong squalls and hail, occurred at Macon, Brunswick, Mexico, St. Catharine, Kansas City, Warsaw, and Poplar Bluff on the 3d, and 4th. There was no mention of any damage.

On the 28th, and 29th strong winds increasing at times to full gale force prevailed in all sections of the State. At many places there were severe thunderstorms with hail, and a few storms of the tornado type. Hail fell at St. Louis, Poplar Bluff, Vanduser, Lebanon, Neosho, Warrensburg, and Edgerton on one or the other of these dates.

Tornadoes: Oregon, Holt County, the evening of the 28th. Path about one-fourth mile wide by four miles long. Orchard trees were uprooted, telephone lines demolished, some stock killed, several barns and outbuildings torn down. Damage estimated at about $4,000.

Johnson County suffered from severe winds and hail on the 29th. A possibility of tornado winds, though details and damage estimates are not available as we go to press.

A severe wind, thought to have been a true tornado although no proof as it was night, traversed New Madrid, Scott, Bollinger, and Cape Girardeau counties between 10 and 11:30 p. m. of the 28th. Three persons were killed in New Madrid County and one injured, in Cape Girardeau County. Damage and destruction to property put at about $200,000. Over the entire southeastern portion of the State, as far west as Howell County and as far north as St. Louis, winds reached velocities of 60 miles an hour, and even higher. There were also strong and somewhat damaging winds in Barry, McDonald, Lawrence, Jaspar, Newton, and Dade counties.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.96	86	69	122	33	7,323	9.8	42	sw.	29
Hannibal	29.95	82	..	...	..	7,197	9.7	52	sw.	29
Kansas City	29.99	80	63	210	57	9,263	12.5	46	w.	29
St. Joseph	29.98	85	62	166	45	7,377	9.9	44	nw.	29
St. Louis	29.96	78	63	116	31	10,270	13.8	64	sw.	29
Springfield	29.98	85	64	164	44	8,848	11.9	58	sw	29
Cairo, Ill	29.96	78	63	...	..	8,193	11.0	60	sw.	28
Keokuk, Iowa	29.98	76	64	118	32	6,679	9.0	56	sw.	29

COMPARATIVE DATA FOR MARCH.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	38.5	−4.8	90	1	4.02	+1.11	....	....	10	....	....	....
1889	41.3	+1.0	84	13	1.98	−0.93	....	....	5	....	....	....
1890	37.3	−6.0	76	−11	2.61	−0.30	....	5.7	8	....	....	....
1891	36.6	−6.7	78	−11	3.01	+0.10	....	7.1	10	....	....	....
1892	38.9	−4.4	87	5	3.11	+0.20	....	....	8	8	10	13
1893	40.5	−2.8	86	1	2.86	−0.05	2.15	3.2	7	11	10	10
1894	47.7	+4.4	89	2	2.93	+0.02	3.20	0.2	6	15	9	7
1895	42.4	−0.9	98	0	2.14	−0.77	3.00	4.4	9	14	7	10
1896	39.2	−3.9	82	2	2.05	−0.86	4.47	5.2	8	11	9	11
1897	44.2	+0.9	93	−5	6.07	+3.16	4.10	1.0	12	9	9	13
1898	44.7	+1.4	83	9	7.09	+4.18	3.87	0.6	11	11	7	13
1899	37.4	−4.1	78	−8	2.93	+0.02	4.30	8.9	6	9	11	11
1900	40.4	−1.9	88	−4	1.48	−1.43	3.41	0.2	6	15	9	7
1901	42.7	−0.6	85	−1	3.74	+0.83	3.21	1.8	8	11	8	12
1902	45.3	+2.0	85	1	3.49	+0.58	5.60	0.8	9	10	10	11
1903	46.8	+3.5	81	9	3.35	+0.44	6.19	1.1	8	13	7	11
1904	44.8	+1.5	87	8	4.14	+1.23	7.50	1.2	9	11	9	11
1905	50.3	+7.0	88	10	2.99	+0.08	2.67	T.	8	11	8	12
1906	34.6	−8.7	75	−5	3.93	+1.02	3.00	8.6	11	6	7	18
1907	53.9	+10.6	95	16	2.82	−0.09	3.08	1.0	7	14	7	10
1908	50.1	+6.8	89	14	2.58	−0.33	2.55	1.0	7	14	7	10
1909	44.5	+1.2	81	9	3.07	+0.16	3 30	0.6	6	13	9	9
1910	55.8	+12.5	96	15	0.66	−2.25	2.25	0.1	2	20	7	4
1911	46.8	+3.5	91	5	1.85	−1.06	2.00	1.4	6	16	8	7
1912	35.2	−8.1	89	−4	4.62	+1.71	2.85	16.5	11	12	6	13
1913	40.6	−3.7	84	−12	4.36	+1.31	7.97	5.0	9	12	8	11
1914	43.2	−1.3	87	−2	2.75	−0.41	3.01	4.7	8	13	7	11
1915	36.4	−8.1	70	6	1.50	−1.74	1.85	7.9	6	7	8	16
1916	47.0	+1.3	95	−2	2.53	−0.65	4.25	3.1	7	14	8	9
1917	45.2	+1.7	86	−7	2.91	−0.42	4.08	1.5	7	15	7	9
1918	50.9	+7.8	95	8	0.94	−2.05	2.25	0.1	4	18	6	7
1919	46.3	+2.9	90	−2	2.40	−0.69	5.37	0.7	6	15	8	8
1920	44.6	+1.4	86	−6	5.01	+2.09	6.00	1.4	8	15	6	10
1921	51.9	+8.5	90	11	4.69	+1.68	2.88	0.5	10	13	9	9
1922	45.6	+1.4	80	3	6.46	+3.38	4.00	2.2	12	11	6	14
1923	40.4	−3.1	83	−11	4.12	+1.00	2.84	2.3	8	14	6	11
1924	38.4	−5.4	80	8	2.55	−0.45	2.38	9.4	8	8	8	15
....	......	....	....	......	......	....	......	....	....	....	....	....

Climatological Data for March, 1924.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	45	37.4	− 4.5	75	27	16	10	40	1.80	−0.76	0.80	10.0	8	9	0	22	nw.	O. K. Benecke
Clifton Hill	Randolph	731	25	37.2	− 5.0	68	27	16	10	30	1.66	−0.99	0.45	8.0	10	6	2	23	......	Dr. A. J. Bradsher
Columbia	Boone	748	34	37.8	− 4.8	72	27	15	10	31	1.81	−1.22	0.88	8.9	12	7	3	21	nw.	U. S. Weather Bureau
Downing	Schuyler	878	3	35.2	......	68	27	13	10	29	2.66	+0.30	1.25	8.5	7	4	10	17	n.	E. E. St. Clair
Fayette	Howard	661	44	....	......	..	..	..	..	..	1.67	−1.14	0.73	10.5	7	..	..	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	36	37.9	− 6.5	70	27†	16	7	38	1.72	−1.32	0.66	10.7	12	6	11	14	n.	Westminster College
Gorin	Scotland	700	37	....	......	..	..	..	..	..	2.08	−0.38	0.80	3.5	8	3	4	24	nw.	J. W. Pulliam
Hannibal	Marion	534	32	37.2	− 3.8	69	27	16	10	31	2.57	−0.19	0.79	11.2	14	3	9	19	nw.	U. S. Weather Bureau
Jefferson City	Cole	557	36	38.6	− 4.6	74	27	13	10	38	2.41	−0.41	1.10	8.3	7	11	9	11	n.	Miss Emma Swift
Kirksville	Adair	969	35	35.5	− 4.0	68	27	13	10	33	3.11	+0.34	1.00	7.0	8	6	3	22	nw.	Prof. J. S. Stokes
Louisiana	Pike	469	30	39.0^{a}	− 4.3	72	27	16	10	38	4.31	+1.41	1.00	25.6	13	9	5	17	n.	J. T. Farrell
Macon	Macon	875	25	35.9	− 6.7	71	27	8	10	39	2.82	+0.13	1.04	8.4	12	10	5	16	nw.	W. C. Brown
Mexico	Audrain	800	35	37.4	− 4.6	74	27	10	10	37	2.36	−0.43	0.86	12.8	13	11	2	18	nw.	Mrs. Abbie Snoddy
Palmyra	Marion	652	25	35.4^{e}	− 4.9	..	..	14	10	..	....	......	0.86	....	..	..	..	..	......	Highway Department
St. Catharine	Linn	800	13	36.7	− 5.8	69	3	10	10	32	2.61	−0.06	0.77	13.0	10	5	8	18	nw.	L. D. Baker
St. Charles	St. Charles	456	36	38.6	− 5.8	73	27	13	10†	37	2.86	−0.23	1.18	10.5	6	4	8	19	n.	L. C. Saeger
St. Louis (1)	St. Louis City	717	50	39.8	− 4.0	72	27	21	10	29	3.24	−0.19	1.53	15.8	12	4	9	18	nw.	U. S. Weather Bureau
St. Louis (2)	....do	578	12	39.0	− 4.6	72	27	19	10	29	2.79	−0.16	1.40	12.1	9	5	10	16	nw.	St. Louis University
Shelbina	Shelby	779	31	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	....
Steffenville	Lewis	650	26	37.4^{a}	− 5.0	70	26	12	10	30	4.35	+1.44	1.50	14.0	9	6^{a}	8^{a}	16^{a}	ne.	Frank Hall
Unionville	Putnam	1,062	31	35.2	− 3.4	70	27	14	10	34	2.27	−0.12	0.95	7.0	7	6	2	23	n.	Geo. W. Davis
Warrenton	Warren	816	42	37.5	− 4.7	66	26†	16	7†	29	2.02	−1.35	0.85	12.5	8	6	2	23	n.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	52	36.2	− 2.7	68	27	15	10	31	1.96	−0.41	0.73	7.1	10	4	3	24	n.	U. S. Weather Bureau
Section means and	extremes	.....	..	37.2	− 4.7	75	27	8	10	40	2.53	−0.27	1.53	10.7	10	6	6	19	nw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	28	47.5	− 3.7	80	27	23	10	38	2.16	−1.84	0.75	T.	8	9	9	13	e.	H. E. Averill
Doniphan	Ripley	344	20	42.4	− 7.0	72	27	18	10	40	2.94	−0.65	1.10	9.0	9	9	13	9	w.	W.W. Martin
Jackson	Cape Girardeau	428	33	41.5	− 5.7	74	27†	15	10	44	2.50	−1.84	0.60	14.0	10	8	5	18	n.	John G. Putz
Marble Hill	Bollinger	470	29	41.8	− 5.6	73	27	13	10	44	3.17	−1.01	1.14	10.0	9	14	4	13	n.	R.A. DeWitt
Parma	New Madrid	281	3	....	......	..	..	..	..	..	2.94	......	1.25	0.5	5	..	..	..	......	J.E. Pearce
Patton (near)	Bollinger	500	15	....	......	..	..	..	..	..	2.15	−1.91	0.90	11.0	4	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	329	20	42.6	− 6.2	77	27	17	10	42	2.16	−2.36	0.73	4.0	9	13	5	13	ne.	Rev.J. A. Gallaher
Vanduser	Scott	304	23	....	......	..	..	..	..	..	2.28	−2 22	0.68	7.0	4	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	42.0	− 5.2	71	28	22	10	26	1.28	−2.74	0 41	2.0	10	5	10	16	nw.	U. S. Weather Bureau
Section means and	extremes	....	..	43.0	− 5.6	80	27	13	10	44	2.40	−1.82	1.25	6.4	8	10	8	13	n.	
Ozark Plateau.																				
Arcadia	Iron	926	43	37.8	− 7.0	72	27	16	10	45	3.09	−0.98	0.98	16.1	9	13	7	11	w.	Arcadia College
Birchtree	Shannon	1,000	29	40.7	− 6.7	72	27	13	10	36	2.00	−2.25	0.75	13.0	7	13	4	14	n.	V. H. Kirkendall
Bolivar	Polk	1,071	30	40.3	− 5.8	78	28	9	10	39	3.54	+0.50	0.98	2.5	10	10	8	13	n.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	25	....	......	..	..	..	..	..	2.36	−0.99	0.56	20.0	7	20^{b}	3^{b}	6^{b}	w.	H. E. Dean
Eldon	Miller	934	28	33.1^{l}	−10.4	..	..	12	9	..	2.42	−0.41	1.10	16.4	5	4^{k}	8^{k}	8^{k}	n.	E. H. Shepherd
Farmington	St. Francois	918	13	39.4	− 7.5	75	27	19	10	42	3.71	+0.44	1.14	20.5	11	9	11	11	ne.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	38.6	− 8.3	74	27	13	10	38	3.36	+0.06	1.00	18.0	11	8	10	13	nw.	A. C. Leach
Goodland	Iron	1,000	30	37.2	− 7.7	70	27	15	16	45	4.15	−0.10	2.38	12.3	6	11	8	12	n.	F. M. Adams
Greenville	Wayne	381	2	41.5	......	73	27	14	10	45	1.14	......	0.49	9.8	9	14	8	9	n.	A. M. Rhodes
Hollister	Taney	735	37	44.4	− 4.3	80	27	22	22	50	3.64	+0.41	1.50	17.0	7	15	8	8	sw.	Mrs. W. P. Chapmann
Koshkonong	Oregon	958	23	42.5	− 7.1	74	27	17	10	32	2.89	−0.92	0.80	19.0	9	9	6	16	nw.	R. M. Hitt
Lebanon	Laclede	1,265	36	36.5	− 8.9	74	27	13	10	39	2.84	−0.61	0.70	8.0	12	6	11	14	nw.	Thomas E. Mulcare
Lockwood	Dade	1,078	18	40.0	− 7.9	74	27	16	11	37	2.17	−0.29	0.83	10.0	7	10	5	16	nw.	C. S. Crow
Mountain Grove	Wright	1,463	23	37.8	− 8.2	72	27	12	10	36	2.37	−1.97	0.55	11.8	9	10	10	11	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	36	41.4	− 6.8	76	27	17	10†	43	2.31	−1.16	0.54	8.0	9	11	8	12	ne.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	24	40.2	− 4.8	76	27	13	10	42	2.47	−1.12	0.96	14.5	10	9	8	14	nw.	Prof. Elmo G. Harris
Seligman	Barry	1,542	22	40.2	− 6.0	74	27	15	10	31	3.41	−0.53	0.60	20.5	8	9	11	11	e.	Floyd E. Fawver
Seymour	Webster	1,642	18	39.2^{c}	− 6.0	72	27	14	10	33	3.07	−0.99	1.00	10.5	7	10	8	13	nw.	Ira H. Hailey
Springfield	Greene	1,350	36	38.2	− 7.0	72	27	16	10	31	2.77	−1.30	1.45	10.1	9	9	11	11	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	39.4	− 7.1	80	27	9	10	50	2.83	−0.68	2.38	13.6	8	11	8	12	nw.	
Southwest Plain.																				
Appleton City	St. Clair	853	30	39.4	− 5.2	73	27	18	10†	37	2.29	−0.78	1.25	4.5	9	9	12	10	nw.	W. G. Bigelow
Clinton	Henry	765	31	41.0^{a}	− 3.3	76	27	14	10	31	2.39	−0.47	0.72	9.0	7	5^{a}	12^{a}	13^{a}	nw.	A. E. Derwent, M. D
Harrisonville	Cass	904	47	36.9	− 4.0	73	27	17	7†	37	1.41	−1.28	0.49	8.0	7	2	3	26	nw.	John H. Patterson
Lamar	Barton	980	37	38.0	− 8.2	75	27	18	10†	41	1.92	−0.98	0.60	6.5	9	9	6	16	sw.	Jesse A. Mann
Lamonte	Pettis	867	23	37.4	− 6.3	76	27	12	10	40	2.60	0.00	0.60	6.5	9	10	5	16	nw.	J. E. Wheeler
Marshall	Saline	779	35	38.4^{a}	− 4.1	72	27	16	10	37	1.88	−0.83	0.45	8.0	9	5^{a}	8^{a}	17^{a}	nw.	Dr. W. H. Black
Nevada	Vernon	862	31	40.0	− 4.3	74	27	16	11	37	2.05	−0.94	1.13	9.5	5	12	9	10	n.	George A. Kaupp
Warrensburg	Johnson	878	37	38.6	− 5.0	74	27	14	10	35	1.76	−0.78	0.44	10.7	9	7	12	12	sw	E. A. Markey.
Warsaw	Benton	687	24	40.0	− 6.9	74	27	17	10	42	2.52	−0.71	0.68	8.0	9	8	16	7	w.	J. R. Smith, M. D.
Section means and	extremes	.....	..	38.9	− 5.4	76	27	12	10	42	2.11	−0.75	1.25	7.8	8	8	9	14	nw.	
Northwest Plateau.																				
Avalon	Livingston	730	34	38.4	− 3.8	70	27	20	7†	33	3.15	+0.10	2.00	4.0	5	2	13	16	ne.	F. G. Ashbaugh
Bethany	Harrison	916	32	36.2	− 3.8	71	27	15	9†	43	3.38	+1.08	1.36	5.5	9	4	8	19	nw.	Owen Ross
Chillicothe	Livingston	779	15	35.6	− 6.0	71	27	13	10	36	2.27	−0.51	1.17	5.5	8	8	10	13	nw.	Wm. J. Olenhouse
Conception	Nodaway	980	35	36.5	− 3.0	73	27	14	7	28	2.29	+0.54	1.25	4.5	6	3	11	17	n.	Fr. Adelhelm Hess
Edgerton	Platte	856	4	36 0^{f}	......	72	27	15	10	35	2.32	−0.43	1.65	7.5	8	10	4	17	n.	Fred L. Stiff
Grant City	Worth	1,134	20	36.8	− 4.5	70	27	15	7	39	2.74	+0.63	1.33	4.0	4	7	10	14	nw.	B. F. Locke
Kansas City	Jackson	963	35	37.8	− 4.9	72	27	19	7	36	2.08	−0.74	0.83	10.4	10	7	12	12	nw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	31	35.2	− 6.0	71	27	12	10	40	3.10	−0.80	1.02	6.7	6	12	1	18	nw.	Linn Terry
Lexington	Lafayette	688	39	39.0	− 3.9	73	27	17	10	32	2.09	−0.28	0.85	8.3	7	8	10	13	nw.	Edwin G. Loomis
Liberty	Clay	859	34	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	.....	....
Maryville	Nodaway	1,169	34	35.8	− 1.4	72	27	16	31	38	1.63	−0.25	0.80	3.2	5	10	3	18	n.	J. R. Brink
Oregon	Holt	1,048	68	35.8	− 3.5	68	27	10	6	33	2.42	+0.40	1.14	6.8	7	6	12	13	ne.	Tom Curry
St. Joseph	Buchanan	967	16	36.8	− 5.8	72	27	18	31	36	2.42	−0.07	1.11	10.1	11	7	11	13	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	21	35.0	− 5.6	72	27	15	31	40	3.34	+1.64	1.42	8.5	8	7	6	18	nw.	Albert Volker
Trenton	Grundy	822	28	36.0^{a}	− 5.2	65	27	17	10	27	3.09	+0.65	2.15	5.0	8	5	13	13	nw.	W. H. Estes
Section means and	extremes	.....	..	36.5	− 4.4	73	27	10	6	43	2.59	+0.14	2.15	6.4	7	7	9	15	nw.	
State means and	extremes	.....	..	38.4	− 5.4	80	27	8	10	50	2.55	−0.45	2.38	9.4	8	8	8	15	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for March, 1924.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri				.15					.30	.05	.01			.01			.20			.11	.02				.07			.20	.93			2.05
Brunswick‖	Grand				.20					.28	.02							.18			.20	.03				.09				.80			1.80
Clifton Hill	Chariton				.35		.06	.02		.21	.05			T.	T.			.05			.10	T.				.10			.45	.27	T.	T.	1.66
Columbia***	Missouri	T.			.19		.01		.05	.28	T.			T.	.01	T.	.04	.16		.01	.13					.04			.85	.04	T.	T.	1.81
Downing	Mississippi				.28					.25								.28				.10				.45			.05	1.25	T.	T.	2.66
Fayette‖	Missouri			T.			.01	.05		.36	.06			T.				.26			.20					T.			.73		T.	T.	1.67
Fulton	do				.08		.03	.01		.30	.04			.01	.01			.18			.12					.08			.66	.20		T.	1.72
Gorin	Mississippi				.19		.06			.12					T.			.16			.05	T.				.43			.27	.80		T.	2.08
Hannibal***	do			.01	.27		.11		.02	.30	T.			.02	.06	.04		.38			.24	T.		.02		.31			.76	.03	T.	T.	2.57
Hermann‖	Missouri				.01		.03			.40	.30	T.			.10	.10		.25			.02	.25				.03				1.26			2.75
Jefferson City‖	do					.20				.35	T.							.27			.10	.19				T.			.20	1.10			2.41
Kirksville	Mississippi				.28					.20					T.			.30			.20	.10		.05					.98	1.00		T.	3.11
Louisiana	do				.22		.05	.08		.60	.04				.15	.05		.40			1.00	.40				.31			.31	.70	T.	T.	4.31
Macon ‖	Chariton				.41			.09	.01	.14	.04				T.			.26	.02		.33	.02				.37				1.04	.09	T.	2.82
Mexico ‖	Mississippi	T.			.30		.01	.05		.10	.40	.03		T.	.04	.04		.20			.10	.16				.07				.86	T.	T.	2.36
Milan ‖	Grand					T.			.20	.05					T.			.10			.02									1.60		T.	1.97
Pacific‖	Meramec	.02			.14			T.		.34	.25				.04	.02		.11			T.	.55		.02						1.38			2 87
Palmyra‖	Mississippi										.12							.30			.10									.86		.02	....
St. Catharine	Grand	T.		T.	.48		.03		.03	.17	.03			T.	T.	T.		.18	T.		.07					.25			.60	.77	T.	T.	2.61
St. Charles	Missouri				T.		T.	T.		.40	T				.05	T.		.30			.40					T.			1.18	.53	T.		2.86
St. Louis (1)***	Mississippi	T.			.08		.02	T.		.38	.01	T.		.05	.08	.01		.19			.86			T.		.01			1.53	T.	.02		3.24
St. Louis (2)	do	.09			.06		.01			.40	T.			T.	.08	T.		.15			.57			T.		.02			1.40		T.	.01	2.79
Shelbina	do																																....
Steffenville	do				.40		.05		T.	.40	.10					T.		.20		.60					.50				.60	1.50	T.	T.	4.35
Union‖	Meramec	.08			.09	.06		T.		.22	.16				.06	.02		.12			.07	.10			.02		.02			1.83			2.85
Unionville	Chariton				.20		.12			.20	T.	T.						.35						T.		.45			.50	.45			2.27
Valley Park‖	Meramec	T.			.15	T.	T.	T.		.10	.18	T.			.03	T.	T.	.10	T.		T.	.53		T.	T.					1.40			2.49
Warrenton	Mississippi	T.					.02			.15	.10				.15	T.		.20	T.	T.	.20					T.			.85	.35	T.	T.	2.02
Keokuk, Ia.***	do			T.	.37		.03		.07	.15	T.	T.		T.	.01	T.		.12			.14	T.		T.		.30			.61	.16	T.	T.	1.96
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi		.22			.05				.10	.45				.08	.07		.06	T.		.20	.18								.48			1.89
Caruthersville	do	T.			T.	.05				.53	T.	T.		.18	T.			.28			.75			.05					T	.22		.10	2.16
Doniphan	Black	T.			.35					.40	T.			.45	.08			.15		1.10				T.					.05	.25		.11	2.94
Jackson	Mississippi	.14			.35					.45				.14	.10	.03		.18			.60								.12			.39	2.50
Leeper ‖	Black				.30					.25								.07			.25								.50				1.37
Marble Hill	Mississippi				.30					.80				.08	.12			.12			.40								.12	1.14	.09		3.17
New Madrid‖	do		.02			.13				.15	.53				.05			.13	.02		.75	.07			.07					.38			2.30
Parma	St. Francis				.68					.45					.04						1.25									.52			2.94
Patton (near)	Mississippi									.65											.50								.10	.90			2.15
Poplar Bluff	Black				.13					.50	T.			.07	.06			.20			.73								.07	.36		.04	2.16
Vanduser	Mississippi				.52					.66									.68										.42				2.28
Cairo, Ill.***	do	.01			.06					.41	T.	T.		.06	.05			.09			.33	T.		T.					.17	.07		.03	1.28
Ozark Plateau.																																	
Annapolis‖	St. Francis	.01			.18				.20	.60																				.77			....
Arcadia ‖	do		T.		.18	.06				.28	.80	T.			.09	T.		.10		T.	.35	.25					T.		T.	.98			3.09
Birchtree	Black				.15					.54				.05				.06			.75								.11	.34	T.		2.00
Bolivar‖	Osage	.98	.07		.25					.15	T.			T.				.80		.10	.13			.05					.70	.31		T.	3.54
Dean	Neosho				T					40				.56		.24				.52	.46			T.					.07	.11			2.36
De Soto‖	Mississippi	.30			.05					.05	.01			T.	T.	T.		.25			.80								1.78			T.	3.24
Eldon	Missouri								1.10					.10							.40			.05						.77		T.	2.42
Farmington	St. Francis				.45					.76	.08			.06	.12	.02		.12			.68								.22	1.14		.06	3.71
Fredericktown‖	do			.02			.05	.40	.25				.37		T.	.60	.80	.40			T.	1.07				.37	.25	T.		.97	.03	T.	5.58
Galena‖	White	T.			.50					.07					.17		.03	.15	.70			.05		.10					T.	.70		.03	2.50
Gano	Meramec	.08	T		.26					.82	.07			.06	.08			.06		.10	.80	T.							.38	.62		.03	3.36
Goodland	Black				.15					.54		.30			.12			T.			.66									2.38			4.15
Greenville	St. Francis	.01			.05					.49				.05				.02			.26								.10	.15		.01	1.14
Hollister	White				.50					.60					.26	.20				.20	.38									1.50			3.64
Jerome ‖	Gasconade	T.								.60	.02			T.				.10			.20								.56	.70			2.18
Koshkonong	Black	T.			.18					.80				.40				.10			.60			.16					.05	.50		.10	2.89
Lebanon ‖	Osage	.20	.05		.19	.30				.20	.10		.20		T.				.30	T	.20		.35						.05	.70		T.	2.84
Lockwood	do	.20								.33		T.		.25		T.				.43	.08			.05					.83		T.	T.	2.17
Mineral Point‖	Meramec																																....
Mountain Grove‖	White		T.		.34					.40	.10	T.			.03			.04		T.	.55	.10		T.	T.				.30	.51			2.37
Neosho	Neosho	T.			.36					.20				.12	T.	T.		.17		.36	.25								.28	.54		.03	2.31
Rolla	Meramec	.13		T.					.35	.10	.10			.10	T.		.13			.40	.15		T.	T.					.96		T.	.05	2.47
Seligman	Neosho									.45	T.			.51		.40		.11		.56	.45			.33					T	.60		T	3.41
Seymour	White	T.			.50					.50	T.			T.						.16	.27			.14					1.00	.50		T.	3.07
Springfield***	do	T.			.31	T.				.29	T.			.07		T.	.03			.32	.23		T.	.05					1.45		T.	.02	2.77
Steelville‖	Meramec	.09	.11		.16	.06				.40	.10			.26	.02						.20	.10		T.					.11	1.11			2.72
Tuscumbia ‖	Osage	.06								.41	.04				.10			.20			.22	.17		T.					.18	.96			2.34
Willow Springs‖	Black	T			.28	.06				.40	.15	.02			.26			.06		.10	.40			.08					.06	.51			2.38
Southwest Plain.																																	
Appleton City	Osage	T.		T.	.15		.01			.35	T.			.04	T.			.13		.04	.26			.06					1.25			T.	2.29
Clinton	do									.53				.10				.18		.08	.28								.50	.72			2.39
Harrisonville‖	do				.03					.49								.07			.26			.05					.08	.43			1.41
Joplin*	Neosho			T.	.04					.14				.08	.01		.08			.33	.22			.20				.30	.48				1.88
Lamar ‖	do	.04								.25					.05	T.		.12			.34			.10	.02				.40	.60			1.92
Lamonte	Missouri				.73		.08	T.		.59				.04				.16		.04	.34								.60	.02			2.60
Marshall	do	.03			.45			T.	.05	.30		.10		T.		T.		.05			.40					T.			.35	.15	T.	T.	1.88
Nevada	Osage									.47										.20	.20								1.13				2.00
Osceola‖	do									.78					.28			.22		.20	.70			.05					.70	.10			3.03
Warrensburg	Missouri				.22		T.		T.	.39				.02				.10		.10	.44			.04					.43	.02	T.	T.	1.76
Warsaw	Osage				.30					.60	T.			.20		T.			.24	.04	.30			.06					.68	.10			2.52
Waverly ‖	Missouri	T.	T.		.15		T.	T.		.36	.02	T.			T.	T.	T.	.18			.33	T.			T.	.07			T.	.85	T.	T.	1.96
Northwest Plateau.																																	
Albany‖	Grand					.29			T.			T						.15		T.	.10					.32		.78	T			T.	1.64
Avalon	do			.40						.50													.25						1.00	1.00			3.15
Bethany	do	.04		T.	.18		T.		T.	.06	.09			T.	T.	T.		.34			T.					.34			1.36	.68	.29	T.	3.38
Chillicothe‖	do			T.	.51		T.	.06		T.	.08	.02	T		T.	T.		.09	T.		.12					.22			T.	1.17	T.		2.27
Conception	Missouri			T.	.06		T.		T.	T.	T.			T.	T.		T.	.30		T.	.15			T.		.27			1.25	.26	T.	T.	2.29
Edgerton	do	.05		T.	.11				.16	.20	T.			T.	T	T.		.02		T.	.12			T.					1.65	.01			2.32
Gallatin	Grand				T.		T.			.20	.20	.20	T.					.20	T.		T.						.30			1.50		T.	2.60
Grant City	do	T.		T.			T.			T.	T.			T.	T.			.36								.40			.65	1.33	T.	T	2.74
Kansas City***	Missouri	.01		.28		T.	T.		.40	.09	T.			.01	T.		.12	T.		.20	.14			T.		T			.81	.02	T.	T.	2.08
Kidder ‖	Grand				.75					.40								.26								.57			.10	1.02		T.	3.10
Lexington	Missouri	.06			.25					43								.07			.33								.10	.85			2.09
Liberty	do																																....
Maryville	do	T.							T.		02							.25		T.	.05								.51	.80	T.	T.	1.63
Oregon	do	.03	T.	.03	T.			.16	T.				T.				33				.20					.53				1.14			2.42
St. Joseph***	do	.03		.16			T.		.15	.06	T.			T.		T.	.42	.08		.10	.08			T.		.22			1.11	.01	T.	T.	2.42
Tarkio	do			.28	.44		T.		T.	.07	T.						.25	.15			.21					.52			1.42	T.	T.	T.	3.34
Trenton	Grand				.20	T.		.23	.03								.11	T.	T.		.03					.30			2.15	.04	T.	T.	3.09

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for March, 1924.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	42	52	68	47	49	42	38	31	35	31	37	47	37	36	40	40	41	39	41	37	52	47	47	54	66	62	75	54	51	33	30	45.2
	Minimum	35	34	40	40	28	28	19	19	23	16	20	27	29	24	25	21	28	33	31	30	28	29	30	37	38	34	35	40	48	24	20	29.5
Columbia	Maximum	43	59	70	61	47	41	35	32	30	29	35	41	36	33	39	40	48	38	38	34	48	42	45	54	66	59	72	65	60	32	27	45.1
	Minimum	37	37	41	33	26	27	19	27	22	15	26	30	27	27	25	23	32	32	30	30	27	31	36	37	40	36	41	53	30	26	22	30.5
Fayette	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Hannibal	Maximum	44	58	67	57	45	41	33	32	31	29	34	38	36	34	36	40	40	36	41	38	44	42	44	50	63	57	69	63	63	32	29	41.1
	Minimum	34	37	37	34	29	25	19	24	21	16	28	29	27	28	26	21	31	32	31	30	30	28	37	37	39	40	40	46	32	25	24	30.2
Jefferson City §§	Maximum	46	60	70	61	68	45	38	40	28	35	38	39	40	40	36	44	55	38	42	40	49	48	42	45	61	69	74	64	41	36	29	47.1
	Minimum	35	38	34	35	42	32	20	20	20	13	18	31	32	20	22	22	31	34	29	29	27	29	33	38	36	37	36	53	38	26	24	30.1
Kirksville	Maximum	54	59	65	60	46	42	34	32	34	30	35	45	40	39	36	37	38	35	38	36	49	40	45	50	59	59	68	59	59	31	26	44.5
	Minimum	30	32	32	34	25	30	16	21	22	13	22	26	25	24	21	22	18	17	26	26	20	25	35	35	35	37	38	43	30	25	18	26.5
Louisiana	Maximum	62	54	60	66	54	45	42	35	37	30	35	38	40	38	36	42	40	40	40	38	40	42	42	50	52	64	68	72	65	54	46	47.3
	Minimum	33	37	40	46	28	33	18	26	28	16	28	33	24	28	24	18	32	35	30	30	29	26	35	33	36	40	34	40	50	27	27	31.1
Macon§§	Maximum	51	60	68	42	49	39	36	34	32	30	36	45	37	35	39	40	40	39	41	37	51	49	44	52	64	60	71	63	54	30	27	45.0
	Minimum	32	21	36	39	24	29	16	17	22	8	13	24	25	25	23	19	25	30	29	28	25	27	26	27	35	37	38	43	45	25	19	26.8
Mexico§§	Maximum	44	59	71	52	48	42	37	34	33	31	37	42	36	35	37	40	49	39	40	31	47	42	45	55	65	61	71	63	49	40	33	45.6
	Minimum	36	35	38	42	26	29	18	20	24	10	12	28	25	26	23	19	30	33	28	29	27	28	32	35	38	38	37	43	47	26	20	29.1
St. Catharine	Maximum	40	58	69	60	46	43	35	32	34	31	36	45	39	37	37	37	38	38	38	37	47	49	45	50	60	57	67	63	60	31	28	44.7
	Minimum	32	32	37	38	25	32	17	21	23	10	25	29	26	24	24	19	30	31	35	28	26	26	36	37	37	37	35	47	31	23	17	28.7
St. Louis(1)	Maximum	53	55	65	62	51	48	38	38	32	31	38	40	38	36	38	41	43	43	39	39	42	42	41	52	65	59	72	62	59	37	33	46.2
	Minimum	36	37	41	40	32	34	22	28	26	21	30	32	32	28	31	28	32	35	33	30	30	35	38	38	39	43	43	54	35	30	26	33.5
Unionville	Maximum	50	56	62	58	46	41	33	30	33	30	31	44	40	35	35	38	36	36	38	37	48	46	44	49	58	57	70	66	56	33	30	44.3
	Minimum	30	30	31	34	24	28	15	20	20	14	20	26	25	25	20	16	26	24	21	30	21	23	32	36	35	35	36	40	28	20	15	26.0
Warrenton	Maximum	63	53	61	61	46	47	38	33	33	28	33	35	35	33	36	39	48	48	37	37	41	42	41	50	65	66	66	66	57	40	33	45.5
	Minimum	36	33	35	41	26	33	16	25	25	16	25	28	23	27	23	20	30	33	30	30	28	26	35	30	36	37	37	49	37	26	20	29.5
Southeast Lowlands.																																	
Caruthersville	Maximum	61	70	72	68	61	70	54	54	53	45	45	54	40	42	50	68	45	49	50	45	50	54	54	63	67	74	80	75	74	74	50	58.4
	Minimum	43	45	34	42	41	35	34	31	33	23	27	29	33	31	30	30	37	37	36	36	35	30	37	35	36	45	42	50	63	42	32	36.6
Doniphan	Maximum	61	56	66	68	55	56	45	45	44	34	38	45	42	40	46	46	49	47	44	43	45	50	45	56	66	66	72	71	71	64	51	52.5
	Minimum	37	39	26	52	34	33	28	24	29	18	21	27	31	27	25	26	33	30	33	31	32	23	30	31	30	43	32	57	57	34	26	32.2
Jackson	Maximum	60	51	65	66	60	58	51	45	42	34	39	44	40	39	41	46	45	45	45	44	42	43	49	56	65	62	74	69	65	74	45	51.7
	Minimum	38	32	28	51	34	36	23	21	29	15	23	29	25	29	23	22	31	31	34	31	31	27	34	33	30	41	30	50	53	30	25	31.3
Poplar Bluff	Maximum	59	53	61	66	63	53	51	42	43	33	36	44	44	40	41	43	47	47	47	43	43	44	47	53	64	69	77	70	70	63	50	51.8
	Minimum	39	39	30	54	37	36	29	24	30	17	25	27	31	27	27	21	33	31	32	32	33	26	36	33	33	40	35	56	56	34	27	33.3
Cairo, Ill.	Maximum	53	50	63	65	52	56	40	44	37	30	39	43	37	37	40	44	44	43	45	40	41	44	46	54	63	62	71	71	70	49	37	48.7
	Minimum	38	35	39	41	39	37	28	29	29	22	28	33	32	31	29	27	34	37	35	33	34	34	38	37	39	46	45	58	47	33	29	35.4
Ozark Plateau.																																	
Arcadia§§.	Maximum	46	59	65	66	58	52	42	45	32	30	35	45	37	36	41	44	45	40	43	33	43	47	48	57	65	65	72	66	61	48	31	48.3
	Minimum	33	35	27	30	28	31	19	19	23	16	18	22	24	25	21	18	23	32	29	31	28	19	23	33	29	39	27	33	55	27	26	27.2
Birchtree	Maximum	58	64	67	64	57	52	46	41	41	30	33	41	37	38	45	46	50	45	39	38	42	41	46	55	68	64	72	67	68	51	40	49.9
	Minimum	35	36	37	44	29	38	24	24	27	13	22	24	30	27	25	24	33	30	31	31	30	25	30	33	38	41	36	54	51	29	26	31.5
Eldon	Maximum	50	60	71	50	51	48	46	36	40	40	41	..	..	..	..	..	51	41	38	35	48	50	48	58	68	..	..	..	51	36	30	[h]37.8
	Minimum	37	34	33	36	25	27	30	23	12	24	28	..	..	..	..	..	..	28	29	30	24	26	31	29	35	..	..	..	32	26	26	[i]28.4
Farmington	Maximum	58	56	68	65	54	48	40	43	38	28	36	40	37	31	37	48	45	42	41	37	41	42	45	57	64	60	75	63	60	42	34	47.7
	Minimum	41	35	34	42	29	35	20	23	28	19	24	29	25	28	23	20	31	34	31	31	29	26	35	35	33	40	33	50	41	34	27	31.1
Hollister	Maximum	60	72	72	66	60	70	49	50	52	48	52	51	56	51	48	42	65	62	60	50	60	52	50	60	70	68	80	74	74	50	50	58.9
	Minimum	20	25	26	42	40	25	24	26	28	21	28	32	34	28	30	32	28	30	28	26	26	22	24	28	38	36	30	45	45	30	26	29.9
Koshkonong	Maximum	58	58	68	66	57	54	44	46	41	31	38	42	38	42	46	47	49	46	42	39	16	53	46	58	68	65	74	69	69	55	45	51.6
	Minimum	38	33	38	45	32	38	27	25	27	17	24	25	31	27	27	27	34	31	33	32	31	30	32	35	38	42	42	57	55	32	26	33.4
Lebanon§§	Maximum	42	52	69	55	52	48	48	42	28	28	36	41	34	37	42	46	54	39	35	33	47	53	43	58	68	65	74	56	47	42	31	46.6
	Minimum	27	34	34	37	25	25	17	18	23	13	14	23	23	20	20	21	25	31	29	29	22	22	33	29	29	35	36	41	39	22	22	26.4
Mountain Grove§§	Maximum	43	57	66	55	55	49	42	45	30	28	33	43	33	37	46	46	57	39	39	33	45	51	43	55	64	62	72	66	54	41	31	47.2
	Minimum	34	33	30	41	27	30	20	20	24	12	19	22	25	23	23	23	23	33	29	30	27	26	27	30	33	37	37	44	49	26	24	28.4
Neosho	Maximum	63	61	68	64	52	51	52	48	50	32	38	42	42	39	43	47	48	44	43	35	49	48	49	59	66	68	76	71	70	51	40	52.0
	Minimum	36	24	35	41	26	33	23	29	31	17	17	20	31	27	28	32	36	31	31	31	23	27	37	28	44	34	33	52	38	37	27	30.9
Rolla	Maximum	60	57	68	65	54	51	40	46	40	27	33	38	35	33	41	45	57	52	36	34	45	50	47	60	67	64	76	71	64	42	33	49.4
	Minimum	41	41	37	40	27	35	19	26	26	13	25	26	27	27	21	22	31	34	30	31	28	27	34	41	38	38	34	53	40	24	24	31.0
Springfield	Maximum	43	56	67	58	50	46	37	44	31	28	35	40	34	35	42	45	49	38	34	33	45	48	42	55	63	59	72	69	62	36	33	46.0
	Minimum	35	30	42	36	29	35	20	27	20	16	18	24	30	21	26	27	35	31	30	30	24	32	32	38	41	37	44	54	31	21	24	30.5
Southwest Plain.																																	
Appleton City	Maximum	55	60	66	61	49	47	41	38	34	32	39	42	39	39	42	42	42	40	37	38	50	50	46	56	67	62	73	68	65	37	37	48.2
	Minimum	37	31	41	39	28	32	20	28	23	18	18	23	32	24	26	26	33	32	28	32	26	30	31	36	43	34	36	52	35	24	21	30.5
Clinton	Maximum	62	64	70	64	52	45	42	40	34	34	42	45	43	40	41	45	45	43	40	39	48	52	49	57	65	..	67	76	63	41	40	[a]49.7
	Minimum	38	45	42	40	28	25	21	28	22	14	22	25	32	25	25	32	30	33	30	31	32	34	33	40	49	..	45	56	32	32	25	[a]32.3
Harrisonville§§	Maximum	42	64	65	47	48	48	39	31	36	34	41	43	38	40	42	38	40	42	35	39	50	48	41	55	66	63	73	66	40	37	37	46.1
	Minimum	32	30	38	38	25	26	17	19	22	17	19	20	21	22	24	25	26	32	28	30	25	26	31	33	37	33	36	41	39	22	23	27.7
Lamar§§	Maximum	46	59	67	44	50	50	39	43	34	34	40	41	35	40	47	45	40	43	35	36	45	51	44	58	67	63	75	70	43	38	38	47.1
	Minimum	34	30	31	40	28	32	22	22	23	18	18	19	24	23	23	28	31	31	31	31	27	27	33	36	36	31	34	38	38	25	26	28.8
Lamonte	Maximum	48	63	70	62	48	43	39	34	33	30	36	45	38	37	40	39	41	40	38	36	50	52	47	58	67	63	76	67	49	32	29	46.8
	Minimum	35	31	40	36	25	31	18	25	22	12	23	21	27	22	21	23	31	32	29	30	21	28	32	36	38	32	36	32	31	24	21	28.0
Marshall	Maximum	57	60	68	63	46	44	40	34	33	..	34	41	40	36	39	39	41	40	39	38	50	49	45	51	66	62	72	66	64	35	31	[a]47.6
	Minimum	35	34	40	39	26	33	19	26	23	16	22	26	28	24	22	20	31	32	30	29	26	28	33	36	37	32	35	45	31	23	20	29.2
Nevada	Maximum	56	61	67	60	50	49	43	40	33	33	39	42	38	41	45	46	45	42	38	38	49	52	46	57	68	64	74	70	65	37	38	49.2
	Minimum	37	32	43	38	26	33	20	26	22	17	16	22	31	34	28	28	33	31	29	31	27	30	36	35	43	35	37	54	35	21	21	30.9
Warrensburg	Maximum	64	62	68	63	47	44	44	34	33	30	37	42	36	36	41	39	44	42	41	38	50	50	47	57	66	67	74	69	38	35	35	47.5
	Minimum	38	31	45	35	25	34	18	26	22	14	24	21	31	22	22	24	32	32	28	31	24	29	33	37	40	32	39	53	34	23	22	29.7
Warsaw	Maximum	60	60	69	67	50	46	43	50	44	31	38	44	42	38	42	45	45	46	40	37	49	54	47	56	68	62	74	69	68	37	34	50.2
	Minimum	39	36	36	40	24	34	20	31	24	17	25	21	30	21	21	22	25	33	28	32	27	25	34	38	43	37	32	46	35	24	24	29.9
Northwest Plateau.																																	
Chillicothe §§	Maximum	43	59	64	42	48	39	34	28	33	28	36	44	37	35	36	37	37	35	37	41	49	45	45	53	61	59	71	62	49	29	27	43.3
	Minimum	35	32	36	38	24	27	17	19	21	13	18	25	25	23	24	20	27	30	30	29	26	26	31	36	37	32	35	42	45	22	18	27.8
Grant City	Maximum	51	59	58	59	47	44	36	33	36	30	41	47	49	36	39	39	39	38	37	41	49	51	47	49	55	59	70	67	67	30	27	46.1
	Minimum	33	30	35	35	25	28	15	24	20	17	22	20	29	21	24	19	29	29	29	31	24	27	35	31	37	32	31	46	28	19	19	27.4
Kansas City	Maximum	44	62	64	50	46	42	38	29	32	31	39	41	39	38	37	31	39	38	31	41	50	47	45	53	62	60	72	65	62	32	31	45.2
	Minimum	37	35	45	34	30	23	19	23	21	20	23	27	30	27	26	26	30	32	30	29	28	32	35	39	42	35	44	55	26	23	21	30.5
Kidder§§	Maximum	40	59	61	46	47	40	36	27	35	29	40	44	36	36	36	34	38	36	35	41	50	48	43	52	55	60	71	61	47	31	29	43.3
	Minimum	34	30	32	36	26	26	17	18	21	12	19	21	22	23	24	21	23	30	28	29	25	27	29	35	36	36	31	41	44	21	19	27.0
Lexington§§	Maximum	54	64	67	62	49	45	40	32	35	33	39	45	40	37	39	36	40	41	37	40	52	49	46	54	67	64	73	64	62	35	34	47.6
	Minimum	37	32	40	39	27	33	19	29	22	17	24	24	30	21	22	23	30	32	30	30	26	27	34	37	40	33	41	49	48	24	21	30.5
Maryville	Maximum	43	57	60	57	48	39	34	29	34	30	40	46	35	37	40	32	38	35	34	42	49	51	45	51	55	60	72	64	60	27	29	44.3
	Minimum	33	30	38	34	26	24	25	24	20	17	22	19	20	22	25	20	28	29	29	29	25	27	35	36	38	31	34	47	27	19	16	27.4
Oregon	Maximum	45	56	61	58	41	38	30	34	31	39	41	37	38	37	37	37	39	36	36	41	45	48	41	50	55	58	68	65	57	31	31	41.0
	Minimum	34	30	41	26	28	10	22	18	20	20	21	29	25	25	26	21	27	29	29	29	24	28	35	35	39	32	35	51	27	20	16	27.5
St. Joseph	Maximum	41	60	62	51	46	41	36	28	32	32	41	44	36	38	38	33	38	36	46	43	49	50	46	52	56	60	72	61	60	30	33	41.6
	Minimum	35	32	42	31	28	20	18	23	20	21	23	23	29	25	26	24	30	31	30	30	26	30	35	36	40	31	41	51	21	21	18	29.0
Trenton	Maximum	49	52	62	59	43	32	32	31	31	30	38	42	40	35	36	38	36	38	40	36	47	46	42	..	56	58	65	62	58	31	28	[a]13.1
	Minimum	34	33	38	32	27	18	25	20	21	17	25	27	29	22	26	21	30	31	31	30	24	30	27	36	38	41	41	46	31	22	20	28.8

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

UNMS

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVIII. COLUMBIA, MO., APRIL, 1924. No. 4.

GENERAL SUMMARY.

April, 1924, in Missouri, averaged warmer and drier than normal, but there were no outstanding features about either element that would cause more than passing remark. There were no damaging floods or winds, and while there was some frost as late as the 22d, there was no damage, chiefly because of the backward condition of all vegetation.

The month was somewhat more favorable than usual for outdoor work. Vegetation, however, responded slowly, and it was about the 20th before there was much foliage. Highways were unusually good. While much ground was prepared very little corn was planted. Wheat did fairly well; pastures and meadows were backward, particularly in the northern third of the State where good warm rains were needed.

TEMPERATURE.

The monthly mean temperature for the State, 67 stations reporting, was 56.6°, or 1.5° higher than the 36-year normal. The temperature distribation was uniform, all sections of the State showing nearly the same plus departures. During the first ten days temperatures were unstable but the period was mainly cool. The first day was like winter, while the eighth was typical spring. The remainder of the month was made up of relatively warm and cool periods, the former lasting if anything longer than the cool spells. The 14-15th, and 16th were summer days. Night temperatures reached 32° or lower on three days.

PRECIPITATION.

The average precipitation for the State, 102 stations reporting, was 2.07 inches, or about 1.66 inches less than the 56 year's average. The month's moisture was deficient in all sections and at the same time was unevenly distributed. While precipitation fell on 10 to 15 days, appreciable amounts fell on 3 to 9 days only, the average being 6. Only from about one-third to one-half of the usual rain fell in the northern sections, and not much more than 50 per cent of the normal fell in the other sections. The heaviest monthly amount was 6.32 inches, at Dean, McDonald County, and the least was 0.48 inch, at Kidder, Caldwell County. The greatest in any consecutive 24 hours was 2.35 inches, at Dean on the 29th.

Snow fell at about 12 stations on the first. It melted soon after falling.

WIND.

The prevailing winds were from the southwest. The total movement, 8 stations equipped with anemometers reporting, was 7,515 miles, 10.4 miles an hour and about 10 per cent above the average. There were some fresh to strong winds on the 19th, 21st, and 29th.

SUNSHINE AND CLOUDINESS.

There were 14 clear days. The average number of hours of sunshine 6 well placed stations equipped with sunshine recorders reporting, was 270. This is about 68 per cent of the possible and about 9 per cent above normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---At Springfield on the 6th.

Frost, light.---17th, 18th, 22d, and 28th.

Hail.---At following places, without damage: Appleton City, and St. Louis on the 8th; Gano, on the 9th; Warrensburg, on the 16th; Jackson, and Poplar Bluff, on the 21st; Neosho, on the 29th, and Warrenton, on the 30th.

Halos, solar.---3d, 8th, 9th, 10th, 11th, 20th, 21st, 23d, 24th, and 25th.

Halos, lunar.---10th, 11th, 15th, 18th, and 19th.

Thunderstorms.---3d, 8th, 9th, 13th, 14th, 16th, 20th, 21st, 24th, 25th, 29th, and 30th.

Earthquakes.---Earth tremor felt at Jackson, and New Madrid at about 5.20 a. m.

SPECIAL STORM NOTES.

St. Louis, April 8th.---Thunderstorm began about 5:30 p. m. and ended shortly before midnight. There was hail, especially from about 9:15 p. m. to 9:30 p. m. The stones ranged in size up to about three-fourth inch, were irregular in shape, with snow centers. The estimated fall was 0.5 inch. Definite width of storm path could not be determined, but the press reported that in various parts of the city, some windows were broken by hail, telephone and electric lighting systems were put out of order by lightning, and that rain flooded some cellars. The total rainfall was 1.07 inches; 0.35 inch fell in 5 minutes, and 0.47 inch in 10 minutes.

Appleton City, April 8.---Thunderstorm attended by hail, passed over the city from northwest to northeast a little after 8 p. m. The stones ranged in size up to about one-half inch. No damage reported. A strong wind blew here on the 9th. Large limbs were broken off some trees but there was no other damage.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.94	70	50	269	68	6,312	8.8	31	sw.	19
Hannibal	29.94	71	..	...	..	6,922	9.6	38	sw.	19
Kansas City	29.92	69	47	307	77	8,098	11.2	35	sw.	16
St. Joseph	29.90	72	42	282	71	6,869	9.5	33	nw.	19
St. Louis	29.94	72	53	237	60	10,284	14.3	61	s.	19
Springfield	29.94	69	53	249	63	8,289	11.5	41	sw.	19
Cairo, Ill	29.96	70	49	...	..	6,869	9.5	34	sw.	21
Keokuk, Iowa	29.93	69	52	274	69	6,476	9.0	35	nw.	21

COMPARATIVE DATA FOR APRIL.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	57.9	+2.8	91	20	1.83	−1.89	....	....	5	....	....	....
1889	55.7	+0.6	90	26	2.52	−1.20	....	....	8	....	....	....
1890	56.2	+1.1	93	24	3.17	−0.55	....	....	8	....	....	....
1891	56.8	+1.7	93	15	3.90	+0.18	....	....	9	....	....	....
1892	53.1	−2.0	88	26	5.66	+1.94	4.25	....	11	9	8	13
1893	53.9	−1.2	95	19	7.84	+4.12	5.50	....	12	8	9	13
1894	56.1	+1.0	93	20	3.17	−0.55	2.49	T.	8	12	10	8
1895	57.9	+2.8	100	24	1.95	−1.77	2.88	T.	7	14	8	8
1896	61.9	+6.8	92	17	3.51	+0.21	3.00	0.0	9	11	12	7
1897	54 4	−0.7	88	21	4.55	+0.83	3.50	T.	10	10	11	9
1898	52.5	−2.6	90	14	3.65	−0.07	3.25	T.	10	12	9	9
1899	54.0	−1.1	96	6	3.70	−0.02	3.76	3.8	8	12	9	9
1900	56.7	+1.6	89	21	3.36	−0.36	3.82	0.7	9	11	10	9
1901	53.3	−1.8	94	24	2.85	−0.87	2.23	1.8	8	14	7	9
1902	53.9	−1.2	95	19	2.66	−1.06	4.35	T.	11	13	11	6
1903	55.9	+0.8	91	26	3.54	−0.18	4.06	1.2	9	11	10	9
1904	49 0	−6.1	84	19	5.75	+2.03	6.10	2.7	9	15	6	9
1905	54.9	−0.2	92	20	3.19	−0.53	4.00	0.3	6	14	8	8
1906	59.5	+4.1	93	22	2.24	−1.41	2.45	0.0	8	17	7	6
1907	48.7	−6.4	89	16	3.43	−0.29	2.75	T.	8	11	8	11
1908	56.6	+1.5	90	18	5.30	+1.58	3.30	T.	11	11	8	11
1909	54.8	−0.3	93	19	4.35	+0.63	3.80	T.	8	13	9	8
1910	54.8	−0.3	95	21	3.51	−0.21	3.50	0.9	11	12	7	11
1911	53.5	−1.6	89	20	4.99	+1 27	4.27	T.	10	12	8	10
1912	56.0	+0.9	97	24	5.98	+2.26	4.50	0.7	10	13	7	10
1913	56.2	+1.2	94	25	3.33	−0.45	3.90	T.	7	16	5	9
1914	55.2	+0.1	91	18	3.14	−0.74	3.00	T.	8	12	7	11
1915	61.9	+6.5	96	18	2.03	−1.82	2.08	T.	7	16	8	6
1916	53.5	−1.8	93	21	3.23	−0.69	2.35	1.9	10	11	8	11
1917	53.2	−2.3	89	19	5.97	+2.02	4.80	1.2	12	12	6	12
1918	50.8	−4.4	93	19	5.10	+1 24	3.50	0.9	11	12	6	12
1919	55.3	+0.3	94	20	3.01	−0.64	3.25	T.	9	12	7	11
1920	50.2	−4.7	89	4	3.95	+0.15	2.98	4.8	11	11	7	12
1921	56.0	+0.9	91	19	5.37	+1.52	4.20	1.1	10	13	7	10
1922	57.3	+1.9	91	24	6.21	+2.42	5.49	T.	11	13	6	11
1923	54.2	−0.6	91	16	3.12	−0.74	2.50	0.4	8	14	8	8
1924	56.6	+1.5	95	11	2.07	−1.66	2.35	T.	6	14	8	8
....	......	....	.....	.....	.....	....	.....	....	....	....	....	....

Climatological Data for April, 1924.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	45	55.8	+ 1.7	88	15	20	1	45	1.31	−2.17	0.68	0	4	17	0	13	se.	O. K. Benecke
Clifton Hill	Randolph	731	25	52.4	− 1.1	78	15	18	1	36	1.38	−2.98	0.60	0	5	12	11	7	......	Dr. A. J. Bradsher
Columbia	Boone	748	34	56.6	+ 1.7	87	15	21	1	37	1.46	−2.24	0.71	T.	6	12	7	11	s.	U. S. Weather Bureau
Downing	Schuyler	878	3	53.9	......	80	15	26	1	35	0.95	−2.80	0.45	0	3	11	16	3	w.	E. E. St. Clair
Fayette	Howard	661	44	56.0	+ 1.7	86	15	20	1	41	1.44	−2.10	0.87	0	6	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	36	55.6	+ 1.3	85	15†	18	1	41	2.26	−2.07	0.70	0	11	11	16	3	s.	Westminster College
Gorin	Scotland	700	37	....	......	..	..	..	..	..	1.28	−2.72	0.44	T.	8	8	13	9	sw.	J. W. Pulliam
Hannibal	Marion	534	32	56.1	+ 2.7	86	24	22	1	37	1.96	−1.29	0.76	T.	10	9	10	11	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	36	57.2	+ 1.1	87	8†	19	1	40	1.79	−1.75	0.73	0	6	18	6	6	s.	Miss Emma Swift
Kirksville	Adair	969	35	54.1	+ 2.4	84	24	25	1	36	0.56	−3.08	0.21	0	3	15	6	9	nw.	Prof. J. S. Stokes
Louisiana	Pike	469	30	57.6	+ 4.0	86	16	20	1	41	2.42	−0.96	1.40	0.2	7	20	9	1	w.	J. T. Farrell
Macon	Macon	875	25	55.2	+ 2.1	86	15	20	1	43	1.11	−2.08	0.51	T.	5	15	8	7	sw.	W. C. Brown
Mexico	Audrain	800	35	56.1	+ 2.4	87	15	19	1	45	2.51	−1.16	1.10	0.2	9	20	0	10	w.	Mrs. Abbie Snoddy
Palmyra	Marion	652	25	54.2^{a}	+ 1.0	88	16	24	2†	48	1.97	−1.65	1.10	0	3	16	8	6	w.	Highway Department
St. Catharine	Linn	800	13	55.0	+ 3.6	83	15	18	1	39	0.89	−2.64	0.47	0	6	11	14	5	sw.	L. D. Baker
St. Charles	St. Charles	456	36	57.6	+ 2.2	87	16	22	1	41	1.07	−2.61	0.74	0	4	10	13	7	s	L. C. Saeger
St. Louis (1)	St. Louis City	717	50	58.4	+ 2.6	86	16	25	1	32	1.90	−1.62	1.11	0	8	10	9	11	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	12	57.7	+ 2.5	87	16	23	1	31	1.71	−2.30	1.00	0	7	15	10	5	se.	St. Louis University
Shelbina	Shelby	779	31	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	....
Steffenville	Lewis	650	26	56.8	+ 3.9	86	16	19	1	37	1.90	−1.71	0.50	0	7	11	12	7	sw	Frank Hall
Unionville	Putnam	1,062	31	54.2	+ 3.5	84	15	20	1	38	1.05	−2.76	0.35	0	5	16	7	7	n.	Geo. W. Davis
Warrenton	Warren	816	42	56.8	+ 2.3	83	15†	19	1	39	1.22	−3.09	0.74	T.	6	14	9	7	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	52	55.0	+ 2.7	86	16	22	1	36	2 07	−1.27	1.06	T.	7	9	7	14	w.	U. S. Weather Bureau
Section means and	extremes	.....	..	55.8	+ 2.2	88	15†	18	1	48	1.55	−2.14	1.40	T.	6	13	9	8	sw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	28	64.3	+ 4.1	93	15	27	1	43	2.86	−1.26	1.12	0	7	21	2	7	e.	H. E. Averill
Doniphan	Ripley	344	20	59.5	+ 1.5	87	15	21	1	42	2.95	−2.42	2.25	0	4	11	6	13	w.	W. W. Martin
Jackson	Cape Girardeau	428	33	59.2	+ 2.3	89	16†	22	2	49	2.35	−2.12	0.96	0	9	7	6	17	n.	John G. Putz
Marble Hill	Bollinger	470	29	58.0	+ 1.3	88	16	20	1	47	1.75	−2.69	1.12	0	7	13	11	6	w.	R. A. DeWitt
Parma	New Madrid	281	3	....	......	..	..	..	..	..	2.85	......	1.95	0	6	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	15	....	......	..	..	..	..	..	1.97	−1.51	0.70	0	5	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	339	20	59.4	+ 0.2	89	16	23	1	40	2.22	−2.25	1.61	0	9	14	13	3	s.	Rev. J. A. Gallaher
Vanduser	Scott	304	23	....	......	..	..	..	..	..	2.34	−1.92	1.63	0	4	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	59.7	+ 1.6	87	16	28	1	34	2.49	−1.08	1.48	T.	11	6	11	13	s.	U. S. Weather Bureau
Section means and	extremes	....	..	60.0	+ 1.8	93	15	20	1	49	2.42	−1.91	2.25	0	7	12	8	10	s.	
Ozark Plateau.																				
Arcadia	Iron	926	43	56.2	+ 0.9	85	7†	19	1	47	1.14	−3.48	1.05	T.	3	12	7	11	s.	Arcadia College
Birchtree	Shannon	1,000	29	57.5	+ 0.7	84	8†	18	1	40	1.94	−2.78	1.24	0	5	22	4	4	s.	V. H. Kirkendall
Bolivar	Polk	1,071	30	59.2	+ 3.1	89	15	22	1	34	3.52	−0.47	1.23	0	8	12	9	9	sw.	Southwest Baptist College
Dean ††	McDonald	1,000	25	....	......	..	..	..	..	..	6.32	+2.28	2.35	0	6	17^{e}	1^{e}	7^{e}	sw.	H. E. Dean
Eldon	Miller	934	28	56.8^{c}	+ 1.4	88	15	26	1	44	2.30	−2.16	1.00	0	3	9^{b}	16^{b}	3^{b}	n.	E. H. Shepherd
Farmington	St. Francois	918	13	57.6	+ 0.7	88	15	20	1	42	3.26	−0.70	1.42	0	8	12	14	4	sw.	Robert Forsyth
Gano ††	Dent	1,250	20	58.4	+ 2.8	87	15	17	1	39	3.67	−0.88	1.71	0	9	15	9	6	nw.	A. C. Leach
Goodland	Iron	1,000	30	54.4	− 0.2	82	15†	16	1	51	2.75	−2.34	1.20	0	6	11	15	4	s.	F. M. Adams
Greenville	Wayne	381	2	57.7	......	87	16	19	1	51	1.77	......	1.30	0	6	14	13	3	s.	A. M. Rhodes
Hollister	Taney	735	37	57.3	− 2.4	95	14	20	2	51	3.30	−1.27	1.20	0	5	15	9	6	sw.	Mrs. W. P. Chapmann
Koshkonong	Oregon	958	23	60.2^{a}	+ 2.4	86	15	22	1	37	3.99	−0.98	2.30	0	9	10^{a}	7^{a}	12^{a}	se.	R. M. Hitt
Lebanon	Laclede	1,265	36	54.7^{f}	− 1.0	89	15	17	1	46	3.39	−0.79	1.32	0	7	17	7	6	s.	Thomas E. Mulcare
Lockwood	Dade	1,078	18	57.9	+ 1.9	88	15	24	1	35	3.31	−0.35	0.90	0	6	17	3	10	sw.	C. S. Crow
Mountain Grove	Wright	1,463	23	56.6	+ 2.4	85	15	17	1	42	3.18	−1.60	1.77	T.	9	11	11	8	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	36	59.6	+ 1.6	91	16	21	1	43	4.22	+0.10	1.75	0	7	20	3	7	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	24	58.9	+ 3.9	87	15	19	1	37	1.72	−2.94	0.86	0	4	16	10	4	sw.	Prof. Elmo G. Harris
Seligman	Barry	1,542	22	57.0^{a}	+ 1.2	87	15	22	1	32	4.31	+0.38	2.02	0	7	16^{a}	6^{a}	7^{a}	sw.	Floyd E. Fawver
Seymour	Webster	1,642	18	....	......	..	..	..	..	..	2.50	−1.46	0.95	0	5	9^{k}	6^{k}	4^{k}	w.	Ira H. Hailey
Springfield	Greene	1,350	36	56.2	+ 0.3	87	15	24	1	31	3.22	−0.64	1.38	0	10	16	8	6	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	57.4	+ 1.2	95	14	16	1	51	3.15	−1.12	2.35	T.	6	14	9	7	sw.	
Southwest Plain.																				
Appleton City	St. Clair	853	30	58.2	+ 2.4	89	15	21	1	36	2.40	−1.86	1.27	0	11	13	13	4	sw	W. G. Bigelow
Clinton	Henry	765	31	61.3	+ 5.6	91	15	30	17	38	2.47	−1.57	1.05	0	6	15	9	6	sw.	A. E. Derwent, M. D
Harrisonville	Cass	904	47	55.4	+ 1.6	88	15	19	1	47	2 31	−1.08	1.02	0	6	6	1	23	nw.	John H. Patterson
Lamar	Barton	980	37	56.5	− 0.1	89	15	23	1	40	2.95	−1,20	1.10	0.5	8	16	7	7	sw.	Jesse A. Mann
Lamonte	Pettis	867	23	53.3	− 1.8	84	24	19	1	43	1.34	−2.43	0.60	0	5	14	8	8	sw.	J. E. Wheeler
Marshall	Saline	779	35	56.9^{g}	+ 2.4	88	15	18	1	43	1.16	−2.53	0.47	0	5	11	12	7	sw.	Dr. W. H. Black
Nevada	Vernon	862	31	57.6	+ 2.5	89	15	23	1	36	3.36	−0.43	2.00	0	5	17	4	9	s.	George A. Kaupp
Warrensburg	Johnson	878	37	57.6	+ 1.5	90	15†	17	1	41	1.62	−1.58	0.81	0	7	16	9	5	sw.	E. A. Markey.
Warsaw	Benton	687	24	58.6	+ 3.0	89	15	18	1	42	2.36	−1.86	0.85	0	5	14	12	4	w.	Everett Martin
Section means and	extremes	.....	..	57.3	+ 1.9	91	15	17	1	47	2.22	−1.62	2.00	T.	6	14	8	8	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	34	55.8	+ 2.3	87	15	18	1	40	0.90	−2.57	0.30	0	4	9	14	7	sw.	F. G. Ashbaugh
Bethany	Harrison	916	32	52.2	+ 1.0	85	14†	11	1	43	0 97	−2.25	0.35	T.	5	18	5	7	sw.	Owen Ross
Chillicothe	Livingston	779	15	54.2	+ 0.9	87	15	17	1	41	0.50	−3.94	0.20	0	4	17	8	5	nw.	Wm. J. Olenhouse
Conception	Nodaway	980	35	54.6	+ 2.7	86	15	16	1	43	1.00	−1.81	0.52	0	4	13	14	3	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	4	55 6^{e}	.....	88	15	19	1	41	0.92	−2.62	0.35	0	5	24	5	1	s.	Fred L. Stiff
Grant City	Worth	1,134	20	54.2	+ 2.7	84	15	16	1	38	0.70	−2.36	0.48	0	3	14	13	3	nw.	B. F. Locke
Kansas City	Jackson	963	35	56.8	+ 2.0	88	15	24	1	32	1.38	−1.91	0.79	0	7	12	11	7	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	31	53.6	+ 1.2	86	15	19	1	45	0.48	−2.56	0.16	0	5	14	10	6	sw.	Linn Terry
Lexington	Lafayette	688	39	57.2	+ 3.1	89	15	20	1	43	1.57	−1.79	0.84	0	4	14	9	7	s.	Edwin G. Loomis
Liberty	Clay	859	34	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	....
Maryville	Nodaway	1,169	34	54.0	+ 3.9	86	15	16	1	40	1.11	−1.80	0.37	0	8	12	7	11	s.	J. R. Brink
Oregon	Holt	1,048	68	55.0	+ 1.1	85	15	18	1	38	1.00	−2.29	0.90	0	2	16	11	3	sw.	Tom Curry
St. Joseph	Buchanan	967	16	55.8	+ 2.2	88	15	20	1	36	0.62	−2.40	0.38	0	5	15	9	6	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	21	52.9	+ 0.7	87	15†	15	1	43	1.29	−1.88	0.77	0	3	14	10	6	nw.	Albert Volker
Trenton	Grundy	822	28	54.1	+ 1.5	81	15	26	1	34	1.21	−2.06	0.57	0	8	18	6	6	s.	W. H. Estes
Section means and	extremes	.....	..	54.7	+ 1.9	89	15	11	1	45	0.98	−2.12	0.90	0	5	15	9	6	nw.	
State means and	extremes	.....	..	56.6	+ 1.5	95	14	11	1	51	2.07	−1.66	2.35	T.	6	14	8	8	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for April, 1924.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri				.02													.21		.02		.01					.12	T.			.80		1.18
Brunswick‖	Grand																	.68				.12					.06				.45		1.31
Clifton Hill	Chariton					.04											.60					.12				T.	T.	T.		.15	.47		1.38
Columbia***	Missouri	T.			.19	T.			T.					T.			.30		.01			T.				.25		T.		.65	.06		1.46
Downing	Mississippi					.17											.45									.33							0.95
Fayette‖	Missouri				.13												.21		.05			.06				.12				.87	T.		1.44
Fulton	do				.06	.01	.01		.03						.25		.16	.18	.03							T.	.62			.21	.70		2.26
Gorin	Mississippi	T.				.11			.22								.33					.02				.10	.44	.02			.04		1.28
Hannibal***	do	T.				.07		T.	.06								.10		T.	.01		.18				.68	.07	.01		.53	.25		1.96
Hermann‖	Missouri	T.			.12		.01			.03					.08			.34		.02							.46				.80		1.86
Jefferson City‖	do	.08													.37			.22		.07							.32				.73		1.79
Kirksville	Mississippi					.18											.17									.21							0.56
Louisiana	do	.01			T.				.05						.02			.40	.02			T.					.52				1.40		2.42
Macon‖	Chariton	T.					.04											.28				.21					.07				.51		1.11
Mexico‖	Mississippi	.02			.09		.02											.18		.02		.01					1.05	.02			1.10		2.51
Milan‖	Grand											T.	.30								.12							T.			.10		0.52
Pacific‖	Meramec				.04		.02			.80					.08			.07		.02							.02				.65		1.70
Palmyra‖	Mississippi																										1.10	.02			.85		1.97
St. Catharine	Grand					.03							T.				.47		T.			.15				.02				.15	.07		0.89
St. Charles	Missouri				T.		T.		T.	.22					.09			.02	T.								T.				.74		1.07
St. Louis (1)***	Mississippi				T.	.03			1.11						.15		.06	.02	T.	T.		T.					.03	T.		.16	.34		1.90
St. Louis (2)	do				T.	.02			1.00						.16		.07		T.	T.							.03			.15	.28		1.71
Shelbina	do																																....
Steffenville	do					.10											.30					.15				.50	.15	.35		.35			1.90
Union‖	Meramec	.02			.02		.03			1.41					.07			.05		.03							.03				.95		2.61
Unionville	Chariton					.15							.20				.35			T.						.20	.15						1.05
Valley Park‖	Meramec	T.			T.					1.00					.14			.09									.01				.68		1.92
Warrenton	Mississippi	.10			.10	T.			T.						T.			.20	.02			T.					.06			T.	.74		1.22
Keokuk, Ia.***	do	T.				.12			.35			T.					.15		T.	T.	T.	.07				.59	.47	T.	T	.20	.12		2.07
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi	T.			.09					.23								.11					.90						.12		.76		2.21
Caruthersville	do				.10					T.					T.		T.	.18	.30						.28			.33		1.12	.55		2.86
Doniphan	Black													.12			T.		T.					.42						2.25	.16		2.95
Jackson	Mississippi				.06				.26	.07									.10			.75						.03	.04	.96	.08		2.35
Leeper‖	Black				.15										.20					.20											1.40		1.95
Marble Hill	Mississippi				.12									.05				.10	.12									.12		1.12	.12		1.75
New Madrid‖	do	.02			.05	.02				.22					.02	T.		.18					.25			.01			.12		2.20		3.09
Parma	St. Francis									.33								.20					.22					.12		1.95	.03		2.85
Patton (near)	Mississippi									.10	.40										.40									.70	.37		1.97
Poplar Bluff	Black				.15					.09				.01				.15					.08		.03			.03		1.61	.07		2.22
Vanduser	Mississippi			.22															.19									.30	1.63				2.34
Cairo, Ill.***	do			T.	.13		T.		.14	T.				T.	T.		.14	.01	.02			.26			.13		.06	.10		1.46	.04		2.49
Ozark Plateau.																																	
Annapolis‖	St. Francis					.14				.37																				1.14			1.65
Arcadia‖	do	T.			.03									T.				.06		T.									T.		1.05		1.14
Birchtree	Black				.08					.06				.18													.38			1.24			1.94
Bolivar‖	Osage				.02					.35					.95		.45									.38	.10			1.23	.04		3.52
Dean	Neosho		T.		.12				T.	.41			T.	T.		T.										2.35	.35			2.13	.96		6.32
De Soto‖	Mississippi								1.79						.06		.21										T.			.64	T.		2.70
Eldon	Missouri																.95		T.											1.00	.35		2.30
Farmington	St. Francis								.13	1.42				.18			T.	.13	.04			.36					T.	T.		.73	.27		3.26
Fredericktown‖	do	.03		.04	.06								.02	.50			.04			.40			.20				.30		.06	.80			2.45
Galena‖	White			.17						.17							.10									.20	1.10				1.64		3.38
Gano	Meramec				.10				.15	1.56					.05		.06	.32									.54			.82	.07		3.67
Goodland	Black								.05	1.20								.20				.03					.15				1.12		2.75
Greenville	St. Francis								.11	.04					.25			.03	.04											1.30			1.77
Hollister	White				.10											.50										1.00		1.20	.50				3.30
Jerome‖	Gasconade								T.	.95									T.							.51		T.		T.	.87		2.33
Koshkonong	Black				.11					.25			T.	.32	T.	.15		.18									.45	.04		2.30	.19		3.99
Lebanon‖	Osage				.12					.40					.43			.37									.70			.05	1.32		3.39
Lockwood	do									.68				.52			.27									.77	.17			.90			3.31
Mineral Point‖	Meramec								2.40								.20														.70		3.30
Mountain Grove‖	White	.03			.10					.04			T.	.07			.23	.16								T.	.69			1.77	.09		3.18
Neosho	Neosho			T.	.16				T.	.39						T.	.20									1.75		.35		1.20	.17		4.22
Rolla	Meramec			.06					.69								.11		T.							T.				.86			1.72
Seligman	Neosho			T.	.12					.18			T.				.12									1.79	.08			1.15	.87		4.31
Seymour	White			T.	.20	T.																T.				.40	.75		T.	.95	.20		2.50
Springfield***	do			.07		T.	.01		.17	.01			.02	.01			32		.02							1.38				1.21	T.		3.22
Steelville‖	Meramec				.14					1.58								.08									.12				.67		2.59
Tuscumbia‖	Osage	T.			.01					.35					1.91		T.	.04		.05							.25				.80		3.41
Willow Sprgs.‖ (near)	White	.02			.05					.08					.27			.24									.45				1.52		2.63
Southwest Plain.																																	
Appleton City	Osage			T.	.02	.01	T.		.18	.30			T.	.07	.08		.11		T.							.25	.05			1.27	.06		2.40
Clinton	do								.10	.25							.87									.10				1.05	.10		2.47
Harrisonville‖	do									.05							.07	.73								.14	.30			T.	1.02		2.31
Joplin*	Neosho			.04					.33						.09		.13									1.38				1.08			3.05
Lamar‖	do	.02					T.			.06			T.		.32			.12								.18	.45			.70	1.10		2.95
Lamonte	Missouri									.10							.42									.04				.60	.18		1.34
Marshall	do				T.	T											.20		T.	T.	T.	.10				.04				.35	.47		1.16
Nevada	Osage			T.					.30					.22			T.									.77	.07			2.00			3.36
Osceola‖	do				.02				.10	.45					.48			.23								.12	.09			.50	1.00		2.99
Warrensburg	Missouri				.07		.01			.10							.38										.13			.81	.12		1.62
Warsaw	Osage					T.				.51							.59	T.								T.	.11			.85	.30		2.36
Waverly‖	Missouri	T.																.57	T.			.07				T.	.09				.51		1.24
Northwest Plateau.																																	
Albany‖	Grand																																....
Avalon	do																.30				.25					.15					.20		0.90
Bethany	do	T.											.35				.43		.02							.14	.03						0.97
Chillicothe‖	do	T.					T										T.	.14				.03				T.	.13	T.			.20		0.50
Conception	Missouri					T.							.24				.12									.52	.12				T.		1.00
Edgerton	do					T.											.35					.03				.15	.28			.11			0.92
Gallatin	Grand																	.55									.15	.10					0.80
Grant City	do					T.							.48				T		T.	T.						.12	T.				.10		0.70
Kansas City***	Missouri				T.								T				.19		T.			.12			.02	.09	.14	.03		.79	T.		1.38
Kidder‖	Grand												T.					.04								.05	.12	.16			.11		0.48
Lexington	Missouri																	.40				.12					.21				.84		1.57
Liberty	do																																....
Maryville	do			T.			.05						.29	.03	.10			.14								.37	.09	.04					1.11
Oregon	do			T.		.10											T.										.90	T.					1.00
St. Joseph***	do					T.						T.	.05				.17					.01			T	.28	.11			T.			0.62
Tarkio	do												.32													.77	.20						1.29
Trenton	Grand					.06							.07				.57		.02			.03				.36		.01	T.	T.	.09		1.21

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for April, 1924.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	45	66	65	62	60	70	82	83	58	65	69	67	84	85	88	79	62	63	71	62	62	65	83	86	76	63	65	76	64	56	..	69.4
	Minimum	20	21	34	40	41	41	45	53	42	31	38	40	44	51	53	58	38	40	41	39	44	36	38	45	59	58	46	39	44	50	..	42.3
Columbia	Maximum	41	66	62	58	61	66	77	83	58	61	68	67	82	80	87	83	57	59	71	61	66	61	80	84	77	65	65	73	59	55	..	67.8
	Minimum	21	32	43	43	44	40	48	58	42	34	42	49	48	59	58	52	41	43	42	42	46	37	43	57	65	48	44	38	52	47	..	45.3
Fayette	Maximum	44	65	64	60	60	67	80	82	66	62	68	67	82	82	86	81	73	61	71	64	66	64	80	84	74	68	65	74	57	56	..	69.1
	Minimum	20	24	41	41	43	38	44	55	42	30	32	41	44	52	52	60	44	36	37	40	43	35	40	52	64	58	45	34	48	48	..	42.8
Hannibal	Maximum	39	63	65	59	57	63	74	79	55	59	66	65	81	78	84	85	57	59	69	54	63	59	76	86	79	72	62	70	69	61	..	66.9
	Minimum	22	26	45	47	45	45	47	53	40	35	39	43	49	57	55	54	43	43	42	40	44	37	42	55	65	53	48	42	52	50	..	45.3
Jefferson City §§	Maximum	46	62	67	64	64	69	82	87	58	64	71	72	84	82	87	83	60	61	75	60	73	64	79	84	77	68	65	76	60	58	..	70.1
	Minimum	19	23	30	33	42	40	48	59	44	38	42	48	49	57	56	63	41	41	41	44	44	39	41	44	63	57	48	41	47	50	..	44.4
Kirksville	Maximum	40	62	63	59	56	64	76	78	68	60	64	63	80	80	83	79	69	60	68	59	63	61	78	84	81	77	62	67	70	62	..	67.9
	Minimum	25	26	41	35	33	28	45	48	39	32	33	38	46	54	50	59	41	35	38	34	39	32	38	48	53	51	41	40	38	48	..	40.3
Louisiana	Maximum	35	56	63	66	60	65	72	78	74	60	65	68	82	76	80	86	85	75	74	72	65	64	76	88	82	76	68	72	70	62	..	70.5
	Minimum	20	24	38	45	45	42	40	52	45	32	45	50	42	55	50	76	44	44	40	40	44	37	45	50	64	48	54	38	45	48	..	44.7
Macon§§	Maximum	43	65	64	63	60	66	77	80	57	60	68	74	83	84	86	84	59	62	71	58	64	62	79	85	77	67	65	73	73	61	..	69.0
	Minimum	20	23	33	36	38	40	46	50	41	33	35	41	43	51	52	60	37	37	41	36	43	32	36	48	60	59	43	38	42	48	..	41.4
Mexico§§	Maximum	44	67	65	60	63	68	80	83	57	63	71	69	83	83	87	85	60	61	72	60	68	61	79	87	80	68	64	74	61	56	..	69.3
	Minimum	19	24	33	43	43	41	48	49	42	32	38	40	49	57	51	60	40	40	42	38	43	35	39	42	58	60	47	37	47	50	..	42.9
St. Catharine	Maximum	40	61	60	59	58	66	74	79	68	59	66	69	78	78	83	78	59	60	68	60	62	59	76	81	76	70	64	74	68	60	..	67.1
	Minimum	18	27	41	38	46	39	45	53	41	32	37	41	47	53	56	58	36	37	39	37	43	32	42	54	63	51	45	35	49	48	..	42.8
St. Louis(1)	Maximum	38	61	64	56	62	64	76	70	61	60	66	68	80	80	82	86	64	63	72	38	72	59	68	82	81	78	70	70	67	62	..	68.0
	Minimum	25	29	42	48	49	46	48	55	47	44	43	50	54	60	61	64	48	45	44	44	48	41	42	52	65	59	56	49	53	52	..	48.8
Unionville	Maximum	40	65	63	63	56	64	74	78	66	56	63	62	80	80	84	80	60	60	66	60	60	60	78	84	78	72	60	72	68	60	..	67.1
	Minimum	20	25	42	35	45	46	45	47	36	36	33	37	46	54	50	55	35	36	39	33	38	30	40	55	60	50	40	40	46	44	..	41.3
Warrenton	Maximum	41	64	64	60	61	63	74	74	73	59	65	67	79	78	83	83	79	56	68	68	62	62	74	81	81	75	72	67	68	60	..	68.7
	Minimum	19	25	38	43	45	40	46	49	44	35	37	48	48	57	54	68	42	40	40	41	46	37	39	52	63	58	48	41	51	50	..	44.8
Southeast Lowlands.																																	
Caruthersville	Maximum	64	68	67	60	66	82	85	84	78	65	78	80	84	88	93	92	83	72	78	85	82	82	82	73	88	84	72	84	72	70	..	78.0
	Minimum	27	31	37	47	49	52	42	62	58	48	42	44	52	62	61	67	61	42	41	52	58	47	45	53	62	64	60	52	55	45	..	50.6
Doniphan	Maximum	50	62	61	56	66	72	82	84	79	60	67	71	80	76	87	88	81	74	76	73	78	72	76	79	78	73	74	77	75	67	..	73.1
	Minimum	21	24	32	44	46	49	38	49	54	45	33	35	50	60	54	65	55	34	34	46	51	41	42	61	59	54	56	43	50	52	..	45.9
Jackson	Maximum	44	62	70	62	65	74	87	86	79	60	63	72	80	81	88	89	89	72	69	71	85	63	70	83	89	83	80	73	71	65	..	74.2
	Minimum	23	22	31	45	46	46	38	45	50	40	31	35	43	61	53	57	55	32	34	49	50	43	38	43	60	62	54	43	50	51	..	44.3
Poplar Bluff	Maximum	46	65	57	57	61	75	79	79	78	64	64	68	75	76	82	89	82	68	76	76	77	74	77	79	76	78	74	70	70	65	..	71.9
	Minimum	23	25	34	45	47	50	44	55	53	44	37	37	49	61	55	65	51	36	38	49	49	44	39	49	59	60	56	46	52	52	..	46.8
Cairo, Ill.	Maximum	41	56	65	54	58	67	81	82	63	56	64	70	78	78	83	87	69	66	71	64	76	60	70	79	84	80	64	70	70	63	..	69.0
	Minimum	26	29	41	46	49	52	47	59	50	46	43	48	53	63	60	63	53	45	43	55	54	48	43	53	65	64	57	53	52	52	..	50.4
Ozark Plateau.																																	
Arcadia§§	Maximum	46	62	61	50	64	69	85	80	63	63	68	69	77	80	84	85	60	63	73	68	76	66	70	79	83	79	72	77	65	61	..	69.9
	Minimum	19	21	30	42	43	39	38	47	48	40	32	37	44	50	47	58	50	31	33	47	42	43	38	44	59	57	55	37	51	49	..	42.4
Birchtree	Maximum	47	62	61	52	62	70	82	84	78	63	65	69	75	74	80	84	64	60	76	71	70	68	63	74	78	72	72	76	68	63	..	69.4
	Minimum	18	26	40	40	40	41	42	54	50	43	40	46	50	58	57	58	48	36	37	49	45	45	41	49	62	58	51	42	52	51	..	45.6
Eldon	Maximum	45	65	62	61	62	..	..	82	70	69	69	70	83	65	88	85	60	61	75	65	72	64	80	84	75	80	68	75	..	59	..	[c]70.1
	Minimum	26	27	32	40	45	..	..	70	42	44	46	41	43	54	52	41	39	36	41	36	48	36	40	55	53	52	45	38	52	47	..	[b]43.6
Farmington	Maximum	42	65	67	54	65	65	81	79	70	60	72	72	78	84	88	82	70	60	65	72	75	65	72	85	87	80	70	71	64	60	..	70.7
	Minimum	20	23	36	36	45	41	45	52	48	39	37	42	48	55	54	63	50	35	47	37	45	41	38	48	61	58	44	43	53	50	..	44.5
Hollister	Maximum	60	68	60	59	70	62	89	80	65	69	72	74	84	95	80	81	62	78	70	80	78	80	85	80	78	80	74	72	70	65	..	74.0
	Minimum	30	20	40	42	44	40	38	50	45	32	40	42	45	50	40	40	30	30	31	40	38	36	53	50	54	56	49	38	36	40	..	40.6
Koshkonong	Maximum	49	67	64	53	66	70	81	84	74	61	67	71	78	76	86	85	69	65	76	75	77	..	76	78	79	73	70	75	68	65	..	[a]71.7
	Minimum	22	30	39	43	45	46	49	56	54	45	41	46	52	59	57	64	50	43	42	49	55	..	42	57	65	56	52	47	52	51	..	[a]48.6
Lebanon§§	Maximum	46	64	64	52	62	67	82	59	58	62	67	72	78	79	89	..	..	..	..	..	..	67	73	81	76	66	67	69	61	59	..	[f]67.5
	Minimum	17	18	32	39	41	35	42	52	44	38	39	41	46	50	51	56	41	38	38	41	47	38	41	46	56	54	45	39	45	48	..	41.9
Mountain Grove§§	Maximum	46	62	60	50	61	67	80	84	64	63	66	68	73	75	85	84	63	58	75	70	75	67	74	77	74	71	69	74	66	61	..	68.7
	Minimum	17	20	34	41	41	37	48	51	47	39	39	44	48	54	56	59	42	39	39	44	54	42	40	54	64	55	48	41	52	49	..	44.6
Neosho	Maximum	52	65	66	57	67	69	80	87	83	62	68	68	78	80	90	91	73	61	77	81	82	74	83	82	64	64	67	78	77	63	..	73.0
	Minimum	21	51	45	44	46	35	45	59	47	43	39	45	46	53	49	66	39	40	38	38	63	36	45	57	63	50	39	39	55	50	..	46.2
Rolla	Maximum	50	65	63	56	62	67	82	84	65	65	69	69	80	83	87	85	66	58	75	69	73	66	80	86	78	74	71	76	71	57	..	71.1
	Minimum	19	29	44	42	45	40	47	59	46	40	44	47	50	55	56	64	42	41	41	46	53	40	43	55	64	57	47	42	53	50	..	46.7
Springfield	Maximum	45	62	58	50	60	65	77	83	59	59	62	64	74	75	87	82	55	56	73	71	71	64	75	79	67	58	61	68	60	58	..	61.3
	Minimum	24	35	41	41	46	37	51	57	46	42	44	47	52	56	59	52	40	41	42	47	53	46	47	58	58	47	46	48	49	47	..	46.6
Southwest Plain.																																	
Appleton City	Maximum	50	63	65	56	69	70	83	82	75	63	66	67	78	78	89	81	63	62	73	67	71	66	82	82	77	65	63	73	68	59	..	69.9
	Minimum	21	34	44	43	48	36	47	57	45	40	42	50	47	53	58	62	38	40	45	45	56	39	47	58	62	46	44	42	55	49	..	46.4
Clinton	Maximum	51	68	71	65	65	73	86	84	74	65	72	70	75	80	91	84	66	67	76	70	77	70	84	87	80	72	69	78	70	67	..	73.6
	Minimum	32	32	45	42	48	55	65	58	48	40	46	52	50	53	73	64	30	41	44	40	43	40	46	60	64	50	48	56	54	50	..	49.0
Harrisonville§§	Maximum	51	67	66	54	58	69	84	84	58	64	70	68	82	80	88	70	62	63	71	64	70	63	81	80	68	60	64	74	56	60	..	68.3
	Minimum	19	20	38	39	39	39	42	55	42	37	39	45	46	53	54	59	36	40	42	41	43	36	40	48	60	43	43	43	47	48	..	42.5
Lamar§§	Maximum	50	64	63	57	59	70	79	83	56	64	68	70	76	79	89	76	61	62	75	74	73	67	83	84	66	53	64	72	64	63	..	68.8
	Minimum	23	24	40	43	44	35	40	51	46	42	41	45	49	51	53	60	38	41	42	45	49	41	45	51	61	48	41	41	47	48	..	44.2
Lamonte	Maximum	35	47	54	54	54	47	67	67	67	48	55	55	69	63	82	73	64	68	70	64	68	66	82	84	79	67	64	77	62	56	..	63.6
	Minimum	19	29	44	41	43	35	34	56	39	33	40	48	45	52	54	57	37	36	39	40	48	36	39	57	61	50	43	37	52	46	..	43.0
Marshall	Maximum	44	66	65	56	64	70	81	83	74	65	70	69	83	82	88	85	72	65	73	67	66	63	80	83	83	77	69	77	71	57	..	71.6
	Minimum	18	29	42	40	47	37	40	57	42	32	30	46	45	50	..	..	..	..	..	..	..	33	37	55	61	53	42	37	50	48	..	[g]42.2
Nevada	Maximum	52	64	64	56	60	71	82	82	69	63	66	66	77	77	89	84	61	62	76	69	70	69	81	82	73	64	63	69	64	62	..	69.6
	Minimum	23	36	36	42	46	38	50	56	45	39	40	50	50	52	53	55	37	41	44	45	56	39	45	60	60	45	42	40	53	49	..	45.6
Warrensburg	Maximum	48	67	61	57	59	69	81	81	73	65	69	69	82	82	90	90	61	64	71	72	69	69	82	85	81	78	63	76	76	58	..	71.6
	Minimum	17	32	45	41	41	37	40	57	43	35	42	50	47	53	57	56	37	38	43	42	43	37	41	57	61	47	45	38	38	48	..	43.6
Warsaw	Maximum	48	65	65	61	63	68	82	84	76	63	68	68	81	81	89	84	65	68	74	68	69	66	81	83	87	68	65	75	69	59	..	71.4
	Minimum	18	29	45	44	49	34	40	57	39	38	39	49	45	53	53	64	48	41	43	44	53	38	46	62	62	51	47	37	56	49	..	45.8
Northwest Plateau.																																	
Chillicothe §§	Maximum	41	65	63	61	57	66	77	79	54	60	65	65	81	81	87	75	59	61	69	58	63	62	81	84	71	59	62	75	68	58	..	66.9
	Minimum	17	21	34	39	41	41	45	53	41	31	35	39	42	47	53	57	35	37	42	37	41	33	40	50	63	56	45	35	43	48	..	41.4
Grant City	Maximum	41	64	64	62	56	67	75	75	63	60	61	60	80	79	84	80	60	61	69	64	65	62	81	81	77	66	56	74	71	63	..	67.4
	Minimum	16	29	41	37	46	38	47	51	36	24	31	38	46	53	55	48	34	37	42	34	42	30	43	55	61	43	43	38	51	44	..	41.1
Kansas City	Maximum	49	65	66	55	55	68	81	78	54	62	68	64	81	78	88	71	60	60	69	62	66	64	82	80	70	58	60	71	62	60	..	67.0
	Minimum	24	38	46	40	48	42	56	51	43	42	47	47	51	56	60	45	38	44	49	42	46	39	50	60	58	42	46	49	50	49	..	46.6
Kidder§§	Maximum	45	66	64	60	54	68	79	80	55	63	67	65	84	81	86	70	61	62	69	60	64	62	81	83	69	58	60	75	65	60	..	67.2
	Minimum	19	21	31	35	35	38	42	49	39	33	35	39	42	53	53	57	34	37	40	36	39	32	37	44	57	47	44	40	44	46	..	39.9
Lexington§§	Maximum	48	67	64	58	60	70	83	84	66	65	72	65	85	82	89	79	63	64	74	65	68	64	81	84	75	67	63	76	69	56	..	70.2
	Minimum	20	31	43	38	38	39	50	58	43	35	39	46	50	52	53	55	38	42	44	41	45	36	38	58	63	49	44	39	54	49	..	44.3
Maryville	Maximum	46	61	64	61	54	66	78	72	55	61	68	61	83	80	86	77	61	61	68	59	63	63	83	81	72	61	57	75	63	64	..	66.8
	Minimum	16	31	41	35	45	38	47	53	37	30	39	39	47	52	55	41	33	35	43	35	37	31	44	58	60	41	38	39	50	45	..	41.2
Oregon	Maximum	43	64	63	59	53	66	74	73	52	57	67	70	81	83	85	75	67	61	62	59	63	62	81	80	74	55	58	72	65	62	..	66.2
	Minimum	18	35	45	38	47	40	51	51	39	35	43	51	43	49	52	42	34	51	46	41	42	34	50	62	54	40	40	41	51	45	..	43.7
St. Joseph	Maximum	47	67	65	58	55	67	79	77	55	62	68	64	83	81	88	76	60	60	68	62	64	64	83	80	69	53	60	74	61	62	..	67.1
	Minimum	20	36	46	38	44	42	52	49	42	38	46	43	52	57	58	42	36	42	49	41	43	36	47	62	51	40	43	41	51	48	..	44.5
Trenton	Maximum	48	60	60	58	56	63	70	75	68	56	61	61	76	75	81	76	56	57	65	62	60	58	75	79	71	65	58	69	63	56	..	64.6
	Minimum	26	30	41	38	37	42	50	53	40	37	39	42	48	52	54	52	39	40	45	38	42	34	41	55	62	48	48	41	52	41	..	43.6

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXVIII. Columbia, Mo., May, 1924. No. 5.

GENERAL SUMMARY.

May, 1924, in Missouri, was about the coolest month of its name of record. It also was the only May of marked deficient warmth that had no damaging freezes or killing frosts. The first week, excepting the first day, was mild and rather dry. On and after the 7th, though, the month was mainly cold. The coldest spells, fortunately, were attended by cloudy wet weather, which prevented any real frost damage.

There was some lack of moisture in western and northern sections during the first ten days, but the remainder of the month was rather wet, especially the last ten days. On the whole the moisture was opportune and beneficial in the drier sections, following the somewhat deficient rainfall of April.

The weather was unfavorable for certain lines of business, particularly in its relation to the automobile and gasoline traffic, being too cold for evening and night driving. The generally bad condition of the highways also was a setback. For farm interests, the season was unfavorable and backward.

TEMPERATURE.

The monthly mean temperature for the State, 68 stations reporting, was 58.6°, or 6.0° lower than the 36-year normal. The lowest mean temperature and probably about the coolest May of record although the mean elements differed but little from those of the same month in 1917. The cool weather was persistent and uniformly distributed, but there were no damaging freezes or killing frosts. The 4th, 5th, 6th, and 20th were about the only really warm seasonable days. On the 1st, 11th, 24th, and 25th, morning temperatures approximated the freezing value, but there was no damage, skies being overcast and showery.

PRECIPITATION.

The average precipitation for the State, 104 stations reporting, was 4.67 inches, which agrees closely with the 56 years' average. The monthly precipitation was unevenly distributed, being somewhat excessive in the southern half of the State, and deficient in about the same amounts in northern sections. During the first two weeks or more showers were light though frequent, and during the last 10 days they were frequent, general and heavy. The heaviest monthly amount was 7.61 inches, at Lamar, and the least was 1.55 inches, at Tarkio. The greatest fall in any 24 consecutive hours was 3.90 inches, at Lamar on the 29th. A trace of snow occurred at four stations, on the 9th.

WIND.

The prevailing winds were from the northwest. The average wind movement was 7,079 miles, based upon records of 8 stations equipped with anemometers. The hourly velocity was 9.5 miles, or slightly more than usual. Strong winds occurred on the 23d, and 28th.

SUNSHINE AND CLOUDINESS.

The number of clear days was 10, one less than last May. The average number of hours of sunshine was 264, or about 59 per cent of the possible and about 4 per cent less than normal.

MISCELLANEOUS PHENOMENA.

Frost, light.---1st, 8th, 11th 22d, 24th, and 25th.
Hail.---2d, 6th, 9th, 13th, 15th, 17th, 19th, and 23d.
Halos, solar.---6th, 7th, 17th, 26th, 28th, and 30th.
Thunderstorms.---2d, 3d, 6th, 7th, 15th, 17th, 19th, 23d, 26th, 27th, 28th, and 29th.

SPECIAL STORM NOTES.

Boone County: During thunderstorm of May 5, Claud Hourigan, 10 year old school boy of Columbia, and Joseph Rice, farmer near Centralia, were killed by lightning.

Webster County; Thunderstorms with excessive rain and some hail caused considerable damage to crops at Seymour on the 7th, 19th, and 24th, and other places on the 28th and 29th. The storm of the 19th killed two cows, uprooted large trees, and demolished houses and barns. The hail path was one-half mile wide and about five miles long, and was destructive to crops. Damage estimated several thousand dollars.

A tornado-like wind swept across the counties of Greene and Webster the evening of May 19th, from northwest to southeast. The towns of Fair Grove, Strafford, and Seymour were within the path of the wind. No person was injured or killed.

May 23 was a day of severe thunderstorms. From Farmington, St. Francois County south to Pemiscot there was damage by wind, lightning, and hail. Within the territory embraced by Sikeston, Essex, and Caruthersville, seven persons were injured, and one, a baby, killed, by overturned houses or flying limbs of trees. The damage is put at about $20,000. During the same evening a thunderstorm passed over St. Louis, and St. Charles County.. According to press reports, 1,800 phones were burnt out in St. Louis.

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Charity, Dallas County: About 8:30 p. m. a severe thunderstorm, wind, rain, and hail occurred at this place. On the following morning hail was found 18 inches deep in places. There was nearly a total loss of crops in path of the hail. Houses and barns were also damaged.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
								Max. velocity.		
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Miles per hour.	Direction.	Date.
Columbia	29.89	78	59	286	64	5,814	7.8	28	w.	23
Hannibal	29.86	73	..	...	..	6,497	8.7	38	sw.	23
Kansas City	29.91	73	56	302	68	8,956	12.0	41	n.	23
St. Joseph	29.90	76	52	272	61	6,588	8.9	34	nw.	23
St. Louis	29.88	76	59	197	44	9,554	12.8	59	s.	23
Springfield	29.92	79	60	245	56	7,045	9.5	37	w.	28
Cairo, Ill	29.90	76	60	...	..	6,447	8.7	48	nw.	23
Keokuk, Iowa	29.88	71	51	280	63	5,734	7.7	36	sw.	2

COMPARATIVE DATA FOR MAY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	62.1	−2.3	93	30	5.35	+0.58	......	0	5	....	....	....
1889	63.5	−0.9	96	28	6.56	+1.79	......	0	5	....	....	....
1890	62.8	−1.6	96	32	3.47	−1.30	......	0	6	....	....	....
1891	61.5	−2.9	97	28	4.26	−0.51	......	0	8	....	....	....
1892	60.7	−3.7	91	28	7.80	+3.03	3.90	0	17	5	9	17
1893	66.8	−2.6	94	30	5.89	+1.12	5.83	0	10	11	11	9
1894	63.7	−0.7	95	22	3.99	−0.78	4.20	0	8	13	11	7
1895	64.6	+0.2	103	28	4.08	−0.69	3.43	0	9	13	12	6
1896	70.1	+5.7	96	32	9.09	+4.32	4.66	0	12	12	12	7
1897	62.4	−2.0	93	28	2.56	−2.21	3.82	0	7	16	11	4
1898	65.2	+0.8	97	31	7.90	+3.13	5.50	0	14	12	10	9
1899	66.9	+2.5	96	34	6.26	+1.49	5.28	0	2	10	13	8
1900	66.3	+1.9	97	29	3.69	−1.06	4.00	0	10	14	11	6
1901	63.8	−0.6	98	30	1.47	−3.30	3.04	0	6	15	10	6
1902	69.4	+5.0	98	39	5.03	+0.25	4.35	0	11	13	11	7
1903	65.1	+0.7	92	23	7.10	+2.33	3.10	0	15	9	10	12
1904	63.1	−1.3	95	32	5.03	+0.26	4.33	0	12	13	10	8
1905	64.9	+0.5	94	34	4.87	+0.10	4.55	0	10	12	11	8
1906	66.3	+1.9	98	27	2.16	−2.61	3.83	0	7	15	10	6
1907	59.5	−4.9	91	17	5.56	+0.79	4.33	0	10	14	6	11
1908	66.1	+1.7	96	24	6.92	+2.15	5.65	0	12	12	10	9
1909	63.3	−1.1	96	23	5.34	+0.57	5.26	0	9	15	9	7
1910	60.1	−4.3	94	32	6.62	+1.85	4.30	0	13	11	8	12
1911	68.8	+4.4	101	27	1.55	−3.22	2.06	0	5	19	7	5
1912	67.6	+3.2	97	30	3.86	−0.91	4.90	0	7	18	8	5
1913	65.8	+1.3	101	33	3.05	−1.93	2.95	0	8	16	7	8
1914	66.6	+2.0	98	31	1.47	−3.40	3.00	0	5	17	9	5
1915	63.7	−1.4	97	30	7.86	+3.04	7.10	0	12	12	7	12
1916	65.6	+0.7	96	33	5.61	+0.89	4.10	0	11	15	8	8
1917	58.7	−6.2	91	30	4.33	−0.47	2.60	0	10	15	7	9
1918	68.3	+3.8	100	28	5.49	+0.68	5.25	0	10	16	8	7
1919	62.0	−2.5	93	35	5.80	+0.87	4.50	0	13	10	10	11
1920	63.8	−0.8	97	32	4.85	+0.04	3.70	0	12	9	9	13
1921	66.4	+2.0	102	28	3.69	−1.20	4.12	0	7	17	8	6
1922	67.2	+2.3	97	38	3.17	−1.77	2.50	0	10	11	10	7
1923	62.7	−1.9	97	25	4.59	−0.49	3.18	T.	12	11	10	10
1924	58.6	−6.0	96	31	4.67	−0.03	3.90	0	10	13	8	10

Climatological Data for May, 1924.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	45	59.1	− 5.2	88	23	38	9†	37	4.04	−0.84	1.75	0	10	19	0	12	nw.	O. K. Benecke
Clifton Hill	Randolph	731	25	56.2	− 8.0	84	4	38	2†	35	3.09	−2.05	1.25	0	9	12	7	12	......	Dr. A. J. Bradsher
Columbia	Boone	748	34	57.4	− 6.9	86	5	37	9	31	5.11	+0.25	1.37	0	15	8	10	13	nw.	U. S. Weather Bureau
Downing	Schuyler	878	3	57.2	......	84	5	36	24	31	2.95	−1.46	0.75	0	9	9	15	7	w.	E. E. St. Clair
Fayette	Howard	661	44	57.4^{a}	− 6.9	85	4	36	9	39	4.10	−0.52	1.46	0	13	..	..	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	36	57.8	− 7.2	86	5	37	9	33	6.04	+1.27	1.80	0	15	15	9	7	w.	Westminster College
Gorin	Scotland	700	37	....	......	..	..	..	..	..	3.04	−1.57	0.94	0	12	9	11	11	nw.	J. W. Pulliam
Hannibal	Marion	534	32	56.8	− 6.8	86	5	40	22	33	3.80	−1.20	2.04	0	14	9	11	11	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	36	58.0	− 6.9	88	5	36	9	33	4.88	+0.33	1.10	0	12	17	3	11	w.	Miss Emma Swift
Kirksville	Adair	969	35	56.9	− 5.6	85	5	37	24	35	2.53	−2.68	1.18	0	4	17	4	10	nw.	Prof. J. S. Stokes
Louisiana	Pike	469	30	58.4	− 5.4	86	5	35	22†	40	5.34	+0.78	1.98	T.	15	23	1	7	w.	J. T. Farrell
Macon	Macon	875	25	58.2	− 5.7	87	5	36	1	41	3.26	−1.31	1.27	0	10	15	6	10	sw.	W. C. Brown
Mexico	Audrain	800	35	57.5	− 6.8	83	6	37	9	33	5.28	+0.52	1.60	0	13	17	2	12	w.	Mrs. Abbie Snoddy
Palmyra	Marion	652	25	55.0	−10.5	86	5	40	8†	34	3.26	−1.45	2.10	0	3	16^{a}	6^{a}	8^{a}	w.	Highway Department
St. Catharine	Linn	800	13	57.6	− 4.9	83	5	36	9	34	2.26	−2.44	0.77	0	12	12	11	8	nw.	L. D. Baker
St. Charles	St. Charles	456	36	59.6	− 3.4	89	5	39	14†	34	6.20	+2.02	1.21	0	12	8	9	14	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	50	59.4	-- 7.5	86	5	42	14	28	6.18	+1.94	1.40	0	15	9	8	14	nw.	U. S. Weather Bureau
St. Louis (2)	....do	578	12	59.0	− 7.1	87	5	41	14	29	5.76	+1.52	1.19	0	14	14	7	10	w.	St. Louis University
Shelbina	Shelby	779	31	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	....
Steffenville	Lewis	650	26	59.2	− 4.9	86	5	38	1	36	2.84	−2.11	1.25	0	6	12	11	8	n.	Frank Hall
Unionville	Putnam	1,062	31	57.2	− 5.2	85	5	35	24	33	2.60	−2.36	0.85	0	8	12	7	12	n.	Geo. W. Davis
Warrenton	Warren	816	42	58.3	− 6.7	83	5†	38	8†	30	5.58	+0.79	1.27	0	10	16	3	12	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	52	57.4	− 6.4	86	5	41	24	32	2.39	−1.86	0.87	0	11	10	7	14	w.	U. S. Weather Bureau
Section means and	extremes	.....	..	57.8	− 6.4	89	5	35	22†	41	4.12	−0.56	2.10	0	11	13	7	11	w.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	28	66.7	− 2.8	96	6	42	11	39	7.03	+2.77	2.15	0	8	24	4	3	se.	H. E. Averill
Doniphan	Ripley	344	20	61.1	− 5.8	88	4	36	11	42	5.43	+1.27	1.05	0	10	8	16	7	w.	W. W. Martin
Jackson	Cape Girardeau	428	33	61.0	− 4.8	90	4	37	11†	44	4.83	+0.47	1.38	0	11	3	9	19	n.	John G. Putz
Marble Hill	Bollinger	470	29	60.0	− 5.7	89	4	36	25	43	5.90	+1.67	1.65	0	11	13	10	8	w.	R. A. DeWitt
Parma	New Madrid	281	3	...	......	..	..	..	..	..	5.10	......	1.36	0	12	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	15	....	......	..	..	..	..	..	5.05	+0.27	1.70	0	10	..	..	..	.....	George F. Ellis.
Poplar Bluff	Butler	329	20	60.8	− 7.2	91	4	38	9†	46	6.76	+1.73	1.20	0	11	13	9	9	s.	J. H. Wolpers
Vanduser	Scott	304	23	....	......	..	..	..	..	..	4.85	+0 69	1.25	0	7	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	61.6	− 6.8	86	5	43	11	28	5.64	+1.81	1.30	0	13	8	13	10	s.	U. S. Weather Bureau
Section means and	extremes	....	..	61.9	− 5.5	96	6	36	11†	46	5 62	+1.34	2.15	0	10	11	10	10	s.	
Ozark Plateau.																				
Arcadia	Iron	926	43	57.3	− 7.3	89	4	33	25	43	4 63	−0.15	1.24	0	10	15	3	13	s.	Arcadia College
Birchtree	Shannon	1,000	29	60.1	− 5.1	87	5	36	25	37	6.22	+1.91	2.50	0	9	18	6	7	nw.	V. H. Kirkendall
Bolivar	Polk	1,071	30	60.6	− 4.3	87	5	37	10	32	5.73	+0.31	2.10	0	12	11	13	7	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	25	....	......	..	..	..	..	..	4.23	−1.73	1.46	0	6	20	4	7	w.	H. E. Dean
Eldon	Miller	934	28	57.7	− 6.8	88	4	34	9	40	3.35	−1.51	1.30	0	8	8	13	10	sw.	E. H. Shepherd
Farmington	St. Francois	918	13	58.0	− 5.8	86	5†	36	25	38	6.15	+0.65	1.12	0	13	9	13	9	nw.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	59.0	− 6.3	90	5	36	10	36	5.28	+0.74	1.78	0	14	14	6	11	nw.	A. C. Leach
Goodland	Iron	1,000	30	56.6	− 7.9	89	5	32	25	42	4.85	+0.23	1.45	0	8	14	5	12	n.	F. M Adams
Greenville	Wayne	381	2	60.4	......	89	4	35	11†	45	3.88	......	1.18	0	7	17	7	7	s.	A. M. Rhodes
Hollister	Taney	735	37	57.8	− 9.5	91	20	31	15	45	5.30	+1.07	1.20	0	6	12	5	14	n.	Mrs. W. P. Chapmann
Koshkonong	Oregon	958	23	61.4^{a}	− 5.4	86	4†	39	10	33	4.08	−0.76	0.95	0	9	7^{a}	11^{a}	12^{a}	w.	R. M. Hitt
Lebanon	Laclede	1,265	36	57.2	− 8.4	85	4†	35	10	35	5.67	+0.06	1.89	0	12	18	2	11	w.	Thomas E. Mulcare
Lockwood	Dade	1,078	18	59.3	− 5.3	84	24	36	10	42	6.74	+1.66	2.15	0	11	22	0	9	nw.	C. S. Crow
Mountain Grove	Wright	1,463	23	59.0	− 4.9	86	4	35	10	34	5.81	+0.96	1.64	0	12	12	10	9	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	36	61.1	− 5.1	86	19†	33	11	38	6.31	+0.24	1.75	0	9	20	5	6	nw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	24	59.8	− 4.7	88	4	36	9	33	7.43	+2.42	1.70	0	9	14	8	9	w.	Prof. Elmo G. Harris
Seligman	Barry	1,542	22	55.4^{e}	− 9.5	80	7	34	11	31	2.50	−2.09	1.02	0	5	14^{e}	7^{e}	5^{e}	sw.	Floyd E. Fawver
Seymour	Webster	1,642	18	57.8^{a}	− 6.3	83	4	34	10	37	4.64	−1.06	1 00	T.	13	13^{a}	7^{a}	10^{a}	nw.	Ira H. Hailey
Springfield	Greene	1,350	36	57.7	− 6.8	81	4	34	10	28	6.02	+0.47	2.29	0	13	15	7	9	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	58.7	− 6.4	91	20	31	15	45	5.20	+0.19	2.50	0	10	14	7	10	nw.	
Southwest Plain.																				
Appleton City	St. Clair	853	30	59.2	− 5.9	85	4	37	10	31	4.46	−1.08	2.09	0	15	13	14	4	nw.	W. G. Bigelow
Clinton	Henry	765	31	62.8	− 2.4	89	4†	38	10	40	6.06	+0.62	3.20	0	12	16	7	8	sw.	A. E. Derwent, M. D
Harrisonville	Cass	904	47	58.0	− 6.0	88	4	36	10	35	2.62	−2.19	0.94	0	11	7	0	24	nw.	John H. Patterson
Lamar	Barton	980	37	58.6	− 7.3	84	4	36	10	32	7.61	+2.15	3.90	0	11	17	6	8	nw.	Jesse A. Mann
Lamonte	Pettis	867	23	58.3	− 6.4	89	4	34	9	38	3.71	−1.24	0 95	0	12	14	9	8	sw	J. E. Wheeler
Marshall	Saline	779	35	59.4	− 4.7	86	4†	34	9	36	5.50	+0.64	1.74	0	10	9^{a}	13^{a}	8^{a}	nw.	Dr. W. H. Black
Nevada	Vernon	862	31	58.8	− 5.8	82	4	37	10†	31	6.76	+1.04	1.68	0	10	17	3	11	n.	George A. Kaupp
Warrensburg	Johnson	878	37	58.6	− 6.7	90	4	35	9	36	3.08	−1.58	0.83	0	12	7	15	9	sw.	E. A. Markey.
Warsaw	Benton	687	24	59.3	− 6.5	87	4	37	9†	36	7.10	+1.87	2.80	0	12	15	3	13	w.	Everett Martin
Section means and	extremes	.....	..	59.2	− 5.8	90	4	34	9	40	5.21	+0.03	3.90	0	11	13	8	10	nw.	
Northwest Plateau.																				
Avalon	Livingston	730	34	58.7	− 4.8	85	4†	36	9	34	3.05	−1.98	1.50	0	7	11	12	8	nw.	F. G. Ashbaugh
Bethany	Harrison	916	32	57.4^{d}	− 5.2	87	5	33	11	48	1.89	−3.09	0.60	0.1	9	14^{e}	2^{e}	10^{e}	sw.	Owen Ross
Chillicothe	Livingston	779	15	57.0	−10.1	87	5	35	9†	35	2.25	−2.46	1.00	T.	8	18	6	7	nw.	Wm. J. Olenhouse
Conception	Nodaway	980	35	58.4	− 3.6	88	5	34	11†	35	1.72	−3.05	0.78	0	9	11	9	11	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	4	57 1^{f}	......	87	4	33	11	41	1.64	−3.81	0.52	0	13	19^{c}	1^{c}	8^{c}	s.	Fred L. Stiff
Grant City	Worth	1,134	20	57.6	− 4.5	86	5	33	9	35	2.18	−2.55	0.80	0	5	5	23	3	nw.	B. F. Locke
Kansas City	Jackson	963	35	58.7	− 6.1	87	4	37	9	32	3.60	−1.51	1.00	0	13	12	9	10	nw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	31	57.0	− 6.1	87	5	33	1	41	2.29	−2.92	0.72	0	12	15	7	9	nw.	Linn Terry
Lexington	Lafayette	688	39	59.6	− 4.8	90	4	38	9†	38	4.58	−0.48	1.00	0	15	11	10	10	s.	Edwin G. Loomis
Liberty	Clay	859	34	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	.....	....
Maryville	Nodaway	1,169	34	57.2	− 3.9	87	6	33	11	38	1.61	−4.14	0.80	0	9	15	2	14	......	J. R. Brink
Oregon	Holt	1,048	68	57.2	− 6.0	85	5	35	9†	33	2.52	−2.34	0.65	0	9	13	6	12	nw.	Tom Curry
St. Joseph	Buchanan	967	16	58.1	− 6.2	88	4	36	9	34	2.24	−2.53	0.76	0	13	11	11	9	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	21	56.6	− 6 7	89	5	34	11	42	1.55	−3.11	0.75	0	6	10	8	13	nw.	Albert Volker
Trenton	Grundy	822	28	57.2	− 6.6	83	5	36	9	26	3.34	−2.00	0.98	0	9	14	9	8	n.	W. H. Estes
Section means and	extremes	.....	..	57.7	− 5.7	90	4	33	1†	48	2.46	−2.57	1.50	T.	10	13	8	10	nw.	
State means and	extremes	.....	..	56.8	− 6.0	96	6	31	15	48	4.68	−0.02	3.90	0	10	13	8	10	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for May, 1924.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri			.04				.50			.10	.05		.07					.31		.48	.07		.56	.73				.45	1.00			4.36
Brunswick‖	Grand			.08							.15	.10		.12					.21		.12			.54	.57				.40	1.75			4.04
Clifton Hill	Chariton		T.								.16	.02		.14					.25	.21			.03	.71				.20	.12	1.25			3.09
Columbia***	Missouri		T.	.01			.87	.50		.06	.07		.02			T.		.40		.78	.10		T.	1.05		T.	.03	.27	.73	.17		.05	5.11
Downing	Mississippi		T.	.35			.29			.14	.10			.25					.34	.03				.75		T.				.70			2.95
Fayette‖	Missouri		.17				.12			.06	.10		.09					.32		.35			.04	.79		.02		.39	1.46			.19	4.10
Fulton	do						.24	.38		.04	.12	.03		.05					.46	1.05	.20			1.80	.40		.10	.05	.16	.96			6.04
Gorin	Mississippi		.25							.23	.04			.17		.04		.39	.27	.02				.63		.02		.04		.94			3.04
Hannibal***	do		.06				.49	.07		.13	.02		.02			T.		.24		.09				.46		T.	.06	.04	.34	1.70		.08	3.80
Hermann‖	Missouri	.29						.04			.19	.04		.02					.32		1.75	.25			2.20			.80	.18	.80			6.88
Jefferson City‖	do							.20			.20	.05					.05		.17		1.10	.37		.36	1.06			.22	.20	.90			4.88
Kirksville	Mississippi									.11								.32						.92						1.18			2.53
Louisiana	do		T.	.14			.31	.30		.08	.10			.01	.01	.03				.60	.02			.60	.38	T.		.40	.38	1.98			5.34
Macon‖	Chariton			.12				T.			.21	.10		.07					.15					.60	.64				.06	1.27	.04		3.26
Mexico‖	Mississippi	.16		.19				1.60			.13	.08						T.		.22	.30		T.	.20	.64			.01	.56	1.10	.09		5.28
Milan‖	Grand			T.			.10						.12			T.			.35		T.			.55	.15					.90		.30	2.47
Pacific‖	Meramec	.08						1.12	T.		.07	.65		.03			.24		.28	.05	.86	.42	T.		1.70			.99	.65	1.07			8.21
Palmyra‖	Mississippi																		.20						.96					2.10			3.26
St. Catharine	Grand		.15				.11			.12	.03			.06	T.			.03	.15	T.				.77				.01	.01	.77		.05	2.26
St. Charles	Missouri							.56		.15	15					.11			.41	.81	.31			.50	1.21		T.	1.00	.28	.71			6.20
St. Louis (1)***	Mississippi		T.				.34	.01	T.	.03	.12					.18		.02	.20	1.06	.35			1.29		T.	1.40	.31	.67	.19		.01	6.18
St. Louis (2)	do		T.				.42	T.		.01	.06					.04		.01	.19	1.11	.31			1.13		T.	1.19	.38	.72	.15		.04	5.76
Shelbina	do																																....
Steffenville	do						T.			.35	.02			.07			T.		.05					1.10			T.			1.25		T.	2.84
Union‖	Meramec	.03		.02				.21			.20	.10					.15		.26	.02	.60	.42			1.97			1.10	.46	1.03			6.57
Unionville	Chariton		T.	.30			T.			.20	.10			.15		.20		T.	.20	T.	T.			.85		T.		T.		.60			2.60
Valley Park‖	Meramec	.22		T.				.48	T.		.06	.19					.16		.26	.09	1.03	.41			1.60			.92	.46	1.00	T.		6.88
Warrenton	Mississippi			T.				.04		T.	.10								.47	1.15	.32			.82	1.27			.60	.11	.70			5.58
Keokuk, Ia.***	do		.27	T.			T.	T.		.01	.01		.03		T.			.63		.01	T.		T.	.52		.02	T.	.02	.05	.82			2.39
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi	.18			.04			.97	.39		.15	.12					.38				1.03	.22			.58			.37	.42	.65			5.50
Caruthersville	do	T.					T.	.63		.15				.58		T.				T.	1.37				1.30		.40		.45	2.15			7.03
Doniphan	Black						.22	.35		T.	.08			.05		.38					1.04			1.05			.54		.85	.87			5.43
Jackson	Mississippi	.03					.07	.72			.24					.03					1.38				.67		.31	.28	.33	.77			4.83
Leeper‖	Black							.40			.50						.20				1.05				.60			.50	.40	.80			4.45
Marble Hill	Mississippi							.88	.08		.42					.20				.06	1.65				.68		.40	.30	.30	.93			5.90
New Madrid‖	do	.05						.16	.75		.01	.06			.20		.51				.20	.60			.95			.20	.72	1.05			5.46
Parma	St. Francis	.04					.09	1.36		.34	.10		.09			.17					.65				1.05		.20	.30		.71			5.10
Patton (near)	Mississippi						.50	.46			.40					.34				.10	.50				.75		.30			1.00	.70		5.05
Poplar Bluff	Black							1.20			.09				.02	.58				.71	.64			.98			.40	1.07	1.06			.01	6.76
Vanduser	Mississippi							.75		1.20							.15				1.25							.27		1.20	.03		4.85
Cairo, Ill.***	do	T.		T.			.21	1 14		.11	.04			.32		.29				.46	.38			1.14	T.		.18	.08	.83	.46			5.64
Ozark Plateau.																																	
Annapolis‖	St. Francis																			.67	.56			1.57			.35		1.19				4.34
Arcadia‖	do	.12						.15	.08		.09						.07				.27	.11			.94			.35	1.21	1.24	T.		4.63
Birchtree	Black							1.05			.13					.13					2.50				.58		.27	.16	.72	.68			6.22
Bolivar‖	Osage			.05			.18	.08			.05			.15							20			.15	.85		.75	.01	1.16	2.10			5.73
Dean	Neosho						T.														.81				1.46		.55		.77	.60		.04	4.23
De Soto‖	Mississippi						T.	.16		T.	.20					.16			.11	.33	1.54			2.09			.51		.94	1.07			7.11
Eldon	Missouri										.24									.30	.79			1.30	.20		.19	.04	.29				3.35
Farmington	St. Francis						.62	.40		.02	.20					.42				.45	.58			.38	1.12		.22	.11	1.00	.63			6.15
Fredericktown‖	do				.04	.09		.50				.06		.02	.08			.10		.50		.72	.05	.30		.06	.04	.62	.55	.04	.06	.35	4 18
Galena‖	White								.10		.16		.23		.10						1.18				.65			.45	1.10	.87			4.84
Gano	Meramec	.04					T.	.21		T.	.25			.10		.05			.06	.10	.16			.74	1.04		.30	.15	1.42	.66			5.28
Goodland	Black							.10												.45	.50				1.00		.30	.20	1.45	.85			4.85
Greenville	St. Francis							.85			.15					.15					1.18				.65		.50	T.	.40				3.88
Hollister	White									.10												1.20			.60			1.20	1.20	1.00			5.30
Jerome‖	Gasconade							.26	.23	.11						.02	.02		.18	.02	.32	T.		.70	1.00		T.	1.10	1.18	1.78	T.		6.92
Koshkonong	Black						.06	.43		T.	.08					T.					.95				.58		.48	.05	.57	.88			4.08
Lebanon‖	Osage							.10			.15	.02		.04		.03			.03		.23	.13		T.	1.89			.95	.80	1.30	T.		5.67
Lockwood	do			.35			.22	.18			T.			.28		T.				.95	.68			.20	.45		.60		.68	2.15			6.74
Mineral Point‖	Meramec							.30			.20									.20	.50			1.00	.90		.50		1 00				4.60
Mountain Grove‖	White							.48			.11			.06		.12				.30	1.21			.05	.69		.28	.28	1.64	.59		T.	5.81
Neosho	Neosho						.27	.27		T.	.07			T.		.16					1.54				1.42		.50		1.75	.33			6.31
Rolla	Meramec									.28	T.							.20		.20	.43			1.70			1.36	1.38	1.70	T.		.18	7.43
Seligman	Neosho							T			.12										.45				1.02		.49		.42				2.50
Seymour	White			.12			.07	.40		T.	.16			.03		.03				1.00	.80			.21	.44		.43		.60	.35			4.64
Springfield***	do		.01	.23			.03			.07	.08					.02				1.95	.34			1.20			.65	.06	1.33			.05	6.02
Steelville‖	Meramec	.07						1.27	.05	.16	.07						.14		.21		.12	.33			1.77			1.15	1.30	1.43			8.07
Tuscumbia‖	Osage							.08			.16	.03		.03		T.			.47		.17	.53		.18	2.02			.46	.21	.75			5.09
Willow Sprgs.‖ (near)	White							.04		.10				.06			.10				2.74	.21			.67			.42	.76	1.27			6.37
Southwest Plain.																																	
Appleton City	Osage			.20			T.	.18		.02	.12			.42		.02			.10	.01	.41		T.	2.09			.01	.02	.30	.46		.10	4.46
Clinton	do			.15				.22			.15			.18		.05				.80	.35			3.20		.05			.06	.70	.15		6.06
Harrisonville‖	do			.07			T.				.06			.23					.15		.02	.03		.40	.22			.07	.43	.94			2.62
Joplin*	Neosho						2.28	.02		.07			.17	.26		.01				1.81	.38			1.17			.39	.90	1.11			.11	8.68
Lamar‖	do			.26				.28			.12			.28							1.20	.10		.33	.55			.38	.21	3.90			7.61
Lamonte	Missouri		.02	.50						.08	T.			.16		T.			.33	.16				.95			.05	.27	.50	.65		.04	3.71
Marshall	do		.07				T.		T.	.11	T.			.11				.34		.75	.13		T.	1.20			T.	.40	.65	1.74		T.	5.50
Nevada	Osage			.32			.53	1.58						.18						1.68	.14			1.02			.03	T.	.83	.45		T.	6.76
Osceola‖	do			.15				.60			.10			.15					.22			.75		.75	.85			.18	.48	.84			5.07
Warrensburg	Missouri		.02	.10			.07		T	.04	.13					.03				.56			T	.70				.23	.34	.83	T.	.03	3.08
Warsaw	Osage						.70	.90						.20		T.	.24		.20	T	.63			2.80			.15	.16	.29	.70		.13	7.10
Waverly‖	Missouri	.02		.03						T.	.09	.25		.13			T.		.23	.42	T.	T.	T.	.57	1.20				.52	1.27			4.73
Northwest Plateau.																																	
Albany‖	Grand																																....
Avalon	do					.15				.20	.40		.15						.15											1.50		.50	3.05
Bethany	do		.18				.20		T.	.14	T.		.02			T.		.07		.07	.06			.60					.55				1.89
Chillicothe‖	do	.08					T.			T.	.22	.02		.19					.02	T.				.64				T	.08	1.00			2.25
Conception	Missouri		T.				.08		.03	.15	T.		T.			T.		.07		.11				.78				.09		.35		.06	1.72
Edgerton	do		.08	T			.04		.01	.17	.02			.04						.14				.52			.03		.07	.48	.01	.03	1.64
Gallatin	Grand						.15			.15	T.							T.						.90				.10		.70			2.00
Grant City	do		T.						T.	.28				.80		T.		T	.12	T.	T.			.55		T.		T.		.43		T.	2.18
Kansas City***	Missouri		.13				.03		T.	.02	T.		.02			T.		.24		.51			.04	.96			.01	.63	.04	.69		.28	3.60
Kidder‖	Grand						.12	.11		.03	.14	.02		18			.18		.06					.72				.08	.10	.55			2.29
Lexington	Missouri	.02		.06			.31	.20		.02	.07	.02		.08			.10		.19		.57			.65	.51				.78	1.00			4.58
Liberty	do																																...
Maryville	do			.04			T.	.04		.09	02			T.					.07	.10	T.	T.		.80				.04		.41			1.61
Oregon	do		.07			T.					.18		T					.03					.01	.65			.55	.05		.58		.40	2.52
St. Joseph***	do		.10				.01		T.	.14	.03		.01			T.		.08		.06	T.			.64			.02	.03	.15	.61		.36	2.24
Tarkio	do		T.				.02			T.								.05						.75				.05		.45		.23	1.55
Trenton	Grand		T.				.08		.04	.14	.13		.46			T.		.26		T	T.			.71			T.	T.	T.	.98		.54	3.34

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station: precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for May, 1924.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	70	80	83	87	87	82	61	51	45	57	69	75	63	57	75	77	84	72	70	67	71	78	88	60	72	69	63	75	68	75	75	71.2
	Minimum	41	43	48	54	54	62	51	44	38	38	40	42	46	42	44	46	48	54	55	45	45	45	53	41	41	48	53	48	51	46	52	47.0
Columbia	Maximum	65	78	79	83	86	83	62	51	45	55	64	70	62	56	68	75	84	67	59	57	67	75	76	56	70	66	67	71	62	70	73	67.8
	Minimum	39	47	53	56	59	61	47	43	37	39	43	41	43	39	44	47	57	51	53	45	42	44	48	42	40	48	53	51	51	47	51	47.1
Fayette	Maximum	76	80	84	85	80	61	52	46	56	66	72	62	60	72	75	83	68	62	63	69	74	75	60	70	66	65	72	66	70	72	68	68.7
	Minimum	40	46	53	52	54	58	50	44	36	38	40	40	48	38	43	44	54	48	53	44	41	..	51	40	38	48	49	48	52	45	52	[a]46.2
Hannibal	Maximum	65	75	75	73	86	81	62	51	46	56	65	70	57	52	68	72	81	66	63	56	65	73	72	56	65	70	66	74	62	68	74	66.6
	Minimum	43	47	52	55	56	61	41	41	41	43	44	44	43	43	44	46	57	52	48	42	42	40	48	42	41	45	57	50	52	46	49	47.0
Jefferson City §§	Maximum	65	79	79	85	88	84	63	50	51	55	65	72	69	56	70	76	84	68	63	52	69	78	74	57	71	68	70	64	65	68	75	68 8
	Minimum	42	46	53	55	58	61	55	41	36	39	40	40	50	40	44	49	54	54	53	46	41	45	50	42	40	48	50	48	46	46	46	47.1
Kirksville	Maximum	68	77	78	76	85	78	69	49	47	59	63	72	69	50	72	74	81	78	72	61	68	76	73	58	62	69	64	76	66	71	73	68.8
	Minimum	39	43	49	52	53	61	47	38	38	39	39	41	43	39	44	45	56	42	50	41	43	41	54	37	38	40	53	47	50	42	52	45 0
Louisiana	Maximum	65	75	76	75	86	85	75	70	60	58	65	70	66	56	68	72	84	78	66	60	68	75	72	70	68	70	72	75	74	70	66	70.6
	Minimum	42	44	48	48	52	62	55	36	40	42	44	40	48	40	45	42	54	48	50	46	38	35	48	42	35	55	57	50	52	44	48	46.1
Macon§§	Maximum	69	78	79	81	87	80	63	52	43	64	68	73	61	55	73	77	83	70	74	64	70	79	77	79	81	71	63	77	66	73	75	71.1
	Minimum	36	43	49	41	55	61	49	40	38	37	40	42	45	40	42	45	52	47	51	43	43	43	54	38	41	46	53	47	51	44	49	45.3
Mexico§§	Maximum	66	78	79	80	82	83	62	50	49	59	62	73	63	57	72	75	73	69	61	57	69	77	76	60	70	67	68	72	60	71	75	68.2
	Minimum	39	45	50	55	56	61	51	39	37	41	41	46	49	39	44	46	51	50	54	45	40	44	53	40	39	46	53	50	53	44	50	46.8
St. Catharine	Maximum	67	73	77	77	83	76	68	52	47	54	66	70	67	53	72	73	80	67	72	63	69	78	76	61	68	69	65	74	69	69	74	68.7
	Minimum	38	41	50	51	56	61	46	41	36	37	39	41	44	41	42	45	57	46	54	43	46	44	55	38	41	49	55	48	51	49	53	46.4
St. Louis(1)	Maximum	64	75	77	80	86	82	66	51	54	53	63	69	66	56	65	72	80	67	60	55	67	73	70	58	68	67	72	73	71	67	72	67.7
	Minimum	48	52	58	61	58	63	49	43	44	43	44	51	52	42	48	51	56	57	52	47	48	49	54	47	43	51	56	56	54	50	55	51.0
Unionville	Maximum	68	76	76	78	85	80	68	55	48	60	66	74	70	52	72	74	80	70	74	68	66	75	70	57	65	72	70	75	70	72	75	69.7
	Minimum	36	43	48	46	55	60	44	38	36	40	37	42	42	38	44	44	56	46	50	40	45	42	55	35	40	45	52	44	50	40	54	44.7
Warrenton	Maximum	62	74	75	79	83	83	82	60	50	55	61	67	67	61	64	71	79	80	67	56	64	73	74	69	68	68	68	69	69	66	70	68.8
	Minimum	41	47	53	56	55	60	60	38	40	40	42	45	57	38	42	47	52	52	50	46	42	43	52	42	39	47	55	52	54	44	52	47.8
Southeast Lowlands.																																	
Caruthersville	Maximum	75	83	89	94	90	96	78	62	65	63	75	85	88	75	65	80	83	90	90	78	75	85	83	78	85	78	82	81	75	71	84	80.0
	Minimum	50	45	52	56	60	64	58	46	45	44	42	46	60	52	49	45	54	62	58	58	55	50	55	53	56	52	62	65	56	52	52	53.4
Doniphan	Maximum	68	77	80	88	87	85	73	61	61	59	69	73	80	73	68	71	77	78	84	79	70	78	81	78	77	72	81	74	80	68	75	75.1
	Minimum	44	38	46	46	53	53	59	39	40	39	36	40	45	42	42	41	51	57	53	54	50	43	51	50	37	38	57	62	63	46	45	47.1
Jackson	Maximum	66	79	83	90	89	89	69	62	63	64	67	76	82	73	67	75	81	72	78	65	69	76	77	79	74	76	78	77	82	69	74	74.9
	Minimum	45	39	51	46	54	55	55	40	42	38	37	41	50	43	41	44	51	62	46	51	49	41	52	48	37	37	57	60	57	45	46	47.2
Poplar Bluff	Maximum	65	70	73	91	88	75	79	63	63	53	66	74	74	76	71	68	73	73	71	73	64	75	80	84	78	81	83	77	71	63	66	72.9
	Minimum	45	40	47	53	55	60	39	40	38	39	41	46	41	45	41	50	60	49	60	52	45	49	51	38	50	60	61	64	47	47	54	48.7
Cairo, Ill.	Maximum	66	73	80	86	86	83	67	54	58	52	66	70	76	61	61	71	75	72	82	61	66	75	77	63	71	67	76	73	81	65	74	70.6
	Minimum	50	59	52	58	61	63	54	46	47	44	43	49	54	50	48	47	58	58	54	55	52	50	57	50	45	55	62	64	55	50	53	52.7
Ozark Plateau.																																	
Arcadia§§	Maximum	66	78	81	89	86	80	63	50	51	54	66	72	75	60	64	73	77	72	72	55	68	75	73	63	73	64	77	68	75	66	71	69.6
	Minimum	45	40	55	46	48	53	58	36	38	37	39	37	44	39	43	36	47	56	43	53	46	36	47	45	33	43	52	57	56	42	44	45.0
Birchtree	Maximum	66	77	83	85	87	83	71	59	55	54	65	71	76	66	68	72	77	73	78	68	69	76	77	76	73	70	79	74	73	67	69	72.2
	Minimum	44	41	52	54	57	51	56	39	38	37	40	41	46	41	45	42	50	59	53	53	50	44	55	46	36	51	57	58	56	47	50	48.0
Eldon	Maximum	67	79	82	88	86	84	65	52	51	55	68	74	69	56	66	76	85	69	55	56	70	77	70	67	76	66	75	70	64	75	77	70.0
	Minimum	40	45	50	51	53	54	50	43	34	35	39	38	50	37	40	43	50	50	50	44	39	46	55	38	36	47	53	50	50	47	50	45.4
Farmington	Maximum	64	78	80	82	86	86	67	55	56	50	62	72	72	57	62	76	76	74	59	57	66	78	70	63	72	67	76	67	62	72	73	68.9
	Minimum	46	44	52	54	57	58	55	39	41	39	41	44	49	40	42	41	49	56	47	49	46	40	54	44	36	47	57	56	53	43	45	47.2
Hollister	Maximum	67	68	80	88	86	86	76	58	52	50	54	75	72	70	68	75	78	76	81	91	84	80	74	84	82	78	70	72	80	70	71	74.1
	Minimum	40	42	35	44	44	48	54	40	35	36	38	31	32	32	31	40	40	39	42	48	40	50	40	41	40	36	50	52	55	45	40	41.4
Koshkonong	Maximum	67	75	81	86	..	84	68	60	59	53	67	71	77	67	68	75	77	75	86	78	70	77	81	78	73	69	82	69	69	66	73	[a]72.7
	Minimum	45	45	53	56	..	59	60	40	40	39	41	47	51	44	47	49	53	57	56	55	50	47	54	48	40	54	57	58	58	48	50	[a]50.0
Lebanon§§	Maximum	63	75	79	85	84	85	63	48	50	50	66	71	66	52	69	74	80	73	76	56	69	76	78	58	71	64	78	66	67	73	71	68.9
	Minimum	40	40	49	54	58	60	52	36	38	35	36	36	39	36	40	44	47	51	55	52	46	44	48	41	37	45	52	53	54	44	46	45.5
Mountain Grove§§	Maximum	63	76	79	86	82	82	71	55	52	49	64	72	70	62	68	73	78	73	82	64	70	76	78	75	72	68	75	73	67	69	68	70.7
	Minimum	41	45	53	52	58	56	53	37	36	35	38	39	49	38	44	45	49	56	54	51	47	45	55	43	38	52	55	55	55	44	51	47.4
Neosho	Maximum	65	76	81	85	85	80	63	62	56	52	65	74	70	65	69	75	81	79	86	86	72	79	85	78	74	78	83	85	74	73	75	74.5
	Minimum	36	44	48	50	51	59	52	40	37	38	33	36	50	36	41	45	54	57	51	53	49	44	60	44	39	53	56	55	58	45	61	47.7
Rolla	Maximum	64	75	80	88	87	83	75	63	51	52	66	71	69	65	70	74	82	82	72	58	68	78	78	75	71	73	76	76	67	73	70	72.0
	Minimum	43	45	57	55	55	63	55	38	36	37	41	42	50	37	40	45	53	54	51	48	45	45	55	42	38	48	55	55	51	46	52	47.7
Springfield	Maximum	60	71	76	81	81	78	60	49	49	49	61	68	64	55	66	72	78	69	78	61	66	72	78	55	70	60	74	66	65	67	68	66.7
	Minimum	42	46	53	56	59	60	44	39	35	34	38	46	49	41	46	49	55	56	56	50	48	51	52	43	42	56	53	56	52	50	54	48.7
Southwest Plain.																																	
Appleton City	Maximum	66	75	81	85	82	78	69	53	50	50	67	73	65	61	69	76	81	76	74	61	71	77	78	60	74	67	72	69	65	71	74	70.0
	Minimum	41	46	52	56	57	60	50	41	38	37	39	43	50	40	46	47	57	53	54	45	44	48	57	41	43	52	53	51	55	49	57	48.5
Clinton	Maximum	81	85	85	89	89	83	72	60	55	56	70	77	77	68	73	82	83	75	75	67	75	80	83	62	70	72	77	72	68	76	78	74.7
	Minimum	62	45	70	55	58	61	52	45	40	38	48	42	50	42	45	46	63	53	60	45	45	45	56	42	57	52	52	54	55	50	50	50.9
Harrisonville§§	Maximum	69	77	83	88	82	80	62	52	46	52	68	74	68	57	73	79	81	69	71	63	72	79	78	61	76	66	63	68	67	70	71	69.8
	Minimum	40	43	49	53	55	60	47	43	37	36	37	43	45	40	42	47	50	48	49	45	44	48	52	40	42	51	51	46	48	48	54	46.3
Lamar§§	Maximum	65	75	78	81	83	80	62	51	50	53	65	72	65	58	70	75	81	71	82	57	67	75	79	58	72	65	75	66	63	72	75	69.3
	Minimum	41	43	52	53	57	61	51	40	38	36	38	40	45	40	46	46	51	56	55	50	48	48	52	42	42	46	56	54	55	49	54	47.9
Lamonte	Maximum	68	80	82	89	86	83	66	52	48	53	67	74	64	55	71	79	85	70	67	62	72	80	80	59	71	66	64	71	66	74	75	70.4
	Minimum	38	42	52	52	58	60	47	43	34	36	37	39	44	40	42	41	56	48	52	44	42	45	51	39	40	50	52	49	53	46	54	46.2
Marshall	Maximum	68	79	84	86	86	80	71	53	48	60	69	76	70	61	74	79	85	77	65	64	72	79	76	..	63	73	61	74	67	71	75	[a]71.7
	Minimum	37	52	52	52	55	56	47	41	34	41	38	39	41	42	52	53	56	47	51	44	42	43	55	..	39	46	52	47	52	52	53	[a]47.1
Nevada	Maximum	65	73	78	82	80	77	61	52	52	52	64	72	65	62	69	75	80	73	80	62	68	74	78	63	72	70	71	67	61	68	71	69.1
	Minimum	49	42	53	55	54	60	48	41	40	37	37	46	50	41	47	47	58	54	53	45	45	48	57	41	41	55	51	51	52	54	56	48.5
Warrensburg	Maximum	68	77	83	90	89	81	60	50	49	53	67	75	64	55	70	81	83	80	81	62	72	82	81	63	73	71	72	73	69	76	68	71.5
	Minimum	39	43	53	55	52	50	47	43	35	36	37	40	47	37	45	45	57	45	45	45	42	49	49	39	44	49	52	48	53	47	51	45.8
Warsaw	Maximum	66	77	80	87	84	84	66	53	51	50	66	72	69	62	70	77	84	84	70	61	70	78	79	62	73	62	75	72	65	74	73	70.8
	Minimum	40	48	52	55	57	60	52	42	37	37	38	38	51	41	44	45	57	52	51	47	43	42	56	42	40	50	52	53	60	47	53	47.8
Northwest Plateau.																																	
Chillicothe §§	Maximum	69	78	81	82	87	78	57	49	44	54	65	73	61	55	72	76	81	69	74	63	68	78	76	58	69	71	60	75	66	71	72	68.9
	Minimum	36	42	49	52	55	61	45	41	35	35	37	41	44	40	40	44	49	46	48	44	45	46	54	37	40	48	56	45	50	43	52	45.2
Grant City	Maximum	71	79	80	79	86	80	68	49	47	55	66	75	72	55	72	77	84	69	70	63	68	76	73	58	67	73	71	75	72	73	73	70.2
	Minimum	36	48	45	49	58	61	40	39	33	39	34	42	40	38	44	43	53	44	51	42	45	46	53	34	45	49	52	47	48	42	52	44.9
Kansas City	Maximum	70	75	81	87	81	74	64	49	45	50	65	71	61	54	69	76	83	67	67	62	70	77	77	59	73	67	61	68	67	69	70	68.3
	Minimum	41	52	54	59	63	63	41	41	37	38	40	49	46	41	46	52	57	49	48	45	50	55	45	42	49	52	52	51	52	53	53	49.1
Kidder§§	Maximum	72	78	82	85	87	74	55	49	44	54	67	76	62	57	70	76	84	72	76	67	70	80	75	61	71	70	60	75	68	73	72	69.7
	Minimum	33	37	47	50	58	61	42	40	35	35	34	40	41	39	39	45	49	44	47	44	41	45	57	35	38	46	53	46	49	43	53	44 2
Lexington§§	Maximum	70	79	83	90	89	79	69	52	48	55	67	75	70	57	72	79	85	76	67	65	72	79	78	62	74	68	64	71	67	72	75	71 3
	Minimum	41	49	53	57	52	61	46	43	38	38	40	44	45	43	46	45	60	48	54	46	43	49	57	40	43	49	55	48	52	49	54	48.0
Maryville	Maximum	64	72	82	82	82	87	75	61	44	45	52	68	77	60	55	73	78	78	71	72	63	70	79	72	61	69	73	68	76	70	74	69.5
	Minimum	37	40	46	49	62	61	38	40	34	37	33	48	41	39	42	42	56	42	49	42	45	48	49	34	45	50	52	48	48	44	54	45.0
Oregon	Maximum	70	78	79	82	85	78	65	50	45	50	60	75	62	54	70	78	84	68	71	63	69	77	73	59	67	71	67	72	67	70	67	68 7
	Minimum	38	46	46	53	63	61	39	40	35	38	35	43	41	39	40	45	55	44	52	42	46	50	45	35	46	51	53	47	48	45	54	45.6
St. Joseph	Maximum	72	78	81	88	86	71	58	50	44	51	65	76	62	52	71	78	84	70	75	66	70	79	74	59	71	71	61	74	68	71	67	69.1
	Minimum	41	50	50	58	65	58	42	39	26	38	37	42	44	40	44	48	57	46	47	44	50	54	44	38	48	52	53	48	50	46	53	47.1
Trenton	Maximum	66	73	75	75	83	76	67	49	45	52	61	70	66	52	66	71	80	65	70	63	63	72	73	64	63	71	66	72	69	67	70	67.0
	Minimum	39	48	52	55	58	62	45	41	36	40	39	46	45	40	45	46	52	45	54	45	48	48	57	38	45	50	52	49	51	47	54	47.5

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

551.0
UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVIII. COLUMBIA, MO., JUNE, 1924. No. 6.

GENERAL SUMMARY.

June, 1924, was characterized by rather persistent cool weather, excessive cloudiness with general, frequent and copious rains. There also was a large number of severe thunderstorms, with attending downpours of rain, high wind, and hail, though the last element, fortunately, was confined to small sections. Generally trees, crops, and the telephone and telegraph wire systems embraced the property damage.

As a rule the weather was unfavorable for farming interests. Because of the lack of warmth, sunshine, and proper cultivation corn plants were small and off color, many fields being full of grass. Wheat harvest was later than usual and was further delayed by soft to muddy fields, preventing the operation of binders. All grasses did well. The prevailing conditions were similar to those of June, 1915.

The main rivers were running bankful, and many of the smaller rivers went out of banks flooding crops on the lower lands.

TEMPERATURE.

The monthly mean temperature for the State as a whole, 64 stations reporting, was 72.5°, or about 1° lower than the 36-year normal. The Ozark Plateau and southeastern lowlands were a bit warmer than normal, and the other divisions, especially the northwestern plateau and northeastern lowlands were from 1° to over 2° cooler than the average. Neither cool nor warm periods persisted for more than two or three days at a time, and the alternations above or below the normal were not marked at any time. As a rule, the coolest weather occurred the first two or three days, while the warmest days were probably from the 18th to the 24th. Days with 90° averaged about 5.

PRECIPITATION.

The precipitation for the State as a whole, 100 stations reporting, was 7.39 inches, or about 2.72 inches more than the 56 years' average. It was the wettest June since 1896, although several Junes since that year averaged more than 6 inches. All sections were wetter than usual but the most marked excess occurred in the northwestern plateau. Rain fell somewhere in the State every day, except probably the 29th, and 30th. Heavy local downpours were the rule rather than the exception, from 3 to over 4 inches occurring in 24 hours or less at a number of stations. Thirteen stations received monthly totals exceeding 10 inches, while many exceeded 9 inches. The main rivers were running bankful, while many of the smaller streams went out of banks.

WIND.

The prevailing winds were from the south. The average wind movement, based upon the records of 8 stations equipped with anemometers, was 6,221 miles, 8.8 miles an hour and about 9 per cent more than normal. Brisk to strong local winds occurred once or twice during each decade, the highest velocity reported being 57 miles from the northwest on the 12th, at St. Joseph, 67 at St. Louis on the 17th, and 55 at Kansas City, on the 26th.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well placed stations equipped with sunshine recorders reporting, was 280, or about 63 per cent of the possible, and about 7 per cent less than normal. June, 1922, had 77, and June, 1923, 68 per cent.

MISCELLANEOUS PHENOMENA.

Earthquakes or tremors.---Greenville and Puxico at 3 a. m. of 2d, and Arcadia and Farmington, at about 9:15 p. m. to 9:30 p. m., on the 27th.

Hail.---2d, 4th, 5th, 6th, 9th 12th, 17th, 18th, 24th, 25th, 26th, and 27th.

Halos, solar.---5th, 6th, 9th, 10th, 12th, 13th, 18th, 21st, and 25th.

Halos, lunar.---None.

Thunderstorms.---Local, 2d, 3d, 4th, 5th, 6th, 10th, 11th, 13th, 14th, 22d, 23d, and 29th. General and severe.---8th, 9th, 12th, 15th, 16th, 17th, 18th, 20th, 24th, 25th, 26th, 27th, and 28th.

SPECIAL STORM NOTES.

This June was noticeable for an unusual number of severe local storms, but, owing to limited space, we can mention only the most extensive and severe:

June 5.—Hail damage occurred over large portions of Shelby, Marion, Ralls, and Pike Counties, from about 11:30 a. m. to 1:00 p. m. The path was from northwest to southeast, and traversed a track averaging about 4 miles in width. Estimated loss to crops, $100,000; and other property, including window glass, roofs, chickens, sheep, etc., $3,000.

June 12.—From about 5 a. m. to 5:40 a. m. a severe thunderstorm with attending high wind demolished outbuildings, stripped shingles from roofs, uprooted thousands of orchard and shade trees, and wrecked several silos and barns in Holt and Buchanan counties. The storm crossed into Missouri near Corning, and passed southeast with a front nearly forty miles wide. DeKalb in Buchanan County had over $10,000 hail damage, chiefly to orchards; St. Joseph district reported hundreds of claims ranging from $5 to $100 with an estimated total of $25,000; western Andrew County was damaged about $12,000; Oregon County over $40,000, chiefly to trees, orchards, and crops. The total loss to property is put at $40,000, and to crops about $90,000. Perhaps 700 square miles were involved.

June.—A local storm in the vicinity of Glasgow caused severe damage to roofs and trees. Because of the narrow path and severe conditions reported, this storm probably was of the tornado type. Excessive rains occurred over a wide area on this date.

June 24.—Tornado crossed the Missouri River from Kansas in the vicinity of St. Joseph, at 5:25 p. m., and traveled eastward to Clarksdale, about 25 miles. Damage occurred where the storm passed over the river near St. Joseph, but chiefly in the vicinity of the One Hundred and Two River. Here, in a path two miles long and about one hundred or more yards wide, destruction was nearly complete. Three persons were seriously injured, and property loss amounted to about $65,000. Excessive rainfall followed the passage of the storm.

June 26.—Damaging hail fell in Kansas City at 11:45 p. m. Loss about $10,000, mostly to greenhouses.

Quite severe local storms, resulting in considerable damage to telegraph and telephone wire systems, and trees, occurred at Appleton City the night of the 8th; at Joplin and vicinity, at 5:30 p. m. of 9th; at Mountain Grove, 15th; Columbia, Jefferson City, Mexico, Downing, and Seligman, on the 24th or 25th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	29.91	86	70	285	64	4,965	6.9	48	nw.	24
Hannibal	29.89	82	..	...	..	5,405	7.5	35	se.	12
Kansas City	29.87	85	66	334	75	7,448	10.3	55	n.	26
St. Joseph	29.87	87	63	313	70	5,871	8.2	57	nw.	12
St. Louis	29.90	86	64	186	42	8,307	11.5	67	s.	17
Springfield	29.91	86	68	286	65	7,409	10.3	43	nw.	15
Cairo, Ill	29.92	87	70	...	..	5,542	7.7	30	n.	17
Keokuk, Iowa	29.90	81	64	278	62	4,818	6.7	36	nw.	20

COMPARATIVE DATA FOR JUNE.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	72.6	−0.5	103	37	6.20	+1.26	......	0	7	....	....	....
1889	70.7	−2.4	100	38	4.66	−0.28	......	0	6	....	....	....
1890	77.2	+4.1	105	50	2.59	−2.35	......	0	6	....	....	....
1891	73.3	+0.2	103	46	6.94	+2.00	......	0	13	....	....	....
1892	74.5	+1.4	100	38	3.18	−1.76	4.25	0	7	15	9	6
1893	72.6	−0.5	98	42	4.61	−0.31	3.60	0	9	12	12	6
1894	74.5	+1.4	105	30	3.92	−1.02	3.48	0	7	16	11	3
1895	73.2	+0.1	100	42	5.77	+0.83	3.85	0	10	12	11	7
1896	72.5	−0.6	101	45	8.32	+3.38	5.60	0	9	12	11	7
1897	73.6	+0.5	102	38	6.18	+1.24	6.40	0	12	9	14	7
1898	75.3	+2.2	100	42	5.88	+0.94	8.15	0	9	13	12	5
1899	74.3	+1.2	101	42	3.87	−1.07	4.48	0	9	15	10	5
1900	73.3	+0.2	103	44	4.79	−0.15	5.06	0	10	12	12	6
1901	77.9	+4.8	110	40	2.13	−2.81	2.99	0	6	18	10	2
1902	70.9	−2.2	100	37	6.57	+1.63	6.08	0	12	11	10	9
1903	67.3	−4.2	95	36	3.25	−1.69	4.90	0	9	15	9	6
1904	70.5	−2.6	93	45	6.42	+1.58	5.41	0	11	12	12	6
1905	75.2	+2.1	103	42	3.09	−1.85	4.80	0	7	15	10	5
1906	72.7	−0.4	101	40	4.95	+0.01	4.07	0	10	15	9	6
1907	71.2	−1.9	97	40	5.84	+0.90	3.90	0	11	14	10	6
1908	72.3	−0.8	98	43	6.30	+1.36	5.30	0	11	13	10	7
1909	73.9	+0.8	98	49	5.21	+0.27	4.12	0	11	11	13	6
1910	70.4	−2.7	99	38	3.92	−1.02	3.70	0	8	16	7	7
1911	78.9	+5.8	112	43	1.78	−3.16	2.07	0	6	18	8	4
1912	69.5	−3.6	100	42	4.78	−0.16	5.60	0	9	14	8	8
1913	75.4	+2.6	107	33	2.57	−2.22	3.05	0	6	18	8	4
1914	79.3	+6.2	106	43	2.37	−2.29	3.50	0	5	18	7	5
1915	70.8	−2.5	98	38	6.51	+1.87	4.86	0	12	11	10	9
1916	70.0	−3.2	100	42	6.99	+1.17	6.75	0	10	14	9	7
1917	71.0	−2.3	103	35	3.78	−0.59	4.19	0	8	19	7	4
1918	77.2	+3.9	110	48	3.15	−1.36	4.28	0	7	17	8	5
1919	75.0	+1.9	104	44	5.59	+1.11	4.21	0	11	14	10	6
1920	72.7	−0.5	104	41	2.35	−2.16	3.74	0	6	18	7	5
1921	76.6	+3.4	105	44	5.71	+1.15	4.14	0	12	12	10	8
1922	76.5	+3.1	108	43	1.66	−2.89	2.30	0	5	19	8	3
1923	73.5	+0.2	103	45	5.48	+1.02	4.42	0	11	14	9	7
1924	72.5	−1.0	101	38	7.39	+2.72	4.39	0	14	12	12	6
....	.....	....	....	.....	......	....	.....	....	....	....	....	....

Climatological Data for June, 1924.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	45	72,7	– 0,5	94	19	49	3	30	9.59	+4.40	1.76	0	14	13	0	17	ne.	O. K. Benecke
Clifton Hill	Randolph	731	25	70.7	– 2.3	92	23	48	2†	27	6.19	+1,85	1,01	0	16	8	18	4	......	Dr. A. J. Bradsher
Columbia	Boone	748	34	71.8	– 1.0	92	19	49	2†	31	7.72	+3.34	1.60	0	17	4	17	9	se.	U. S. Weather Bureau
Downing	Schuyler	878	3	69.6	......	91	19	48	3	28	8,97	+4.59	2.50	0	11	14	10	6	w.	E. E. St. Clair
Fayette	Howard	661	44	71,0	– 2.3	91	19	47	3	30	7.56	+3.02	1.40	0	12	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	36	71.9	– 1,7	91	19	44	2	28	8.66	+4.46	2.41	0	18	13	14	3	sw.	Westminster College
Gorin	Scotland	700	37	...	......	..	..	..	..	..	7.29	+3.38	2.35	0	15	9	9	12	se.	J. W. Pulliam
Hannibal	Marion	534	32	71.6	– 0.9	93	19	51	3	25	6.38	+2.86	1.56	0	13^{c}	6	13	11	s.	U. S. Weather Bureau
Jefferson City	Cole	557	36	72.4	– 1.6	92	13	49	2†	29	5,75	+1,73	0.77	0	15	14	10	6	s.	Miss Emma Swift
Kirksville	Adair	969	35	68.6	– 3.6	90	19	46	8	36	7.59	+3.32	2.05	0	11	14	7	9	s.	Prof. J. S. Stokes
Louisiana	Pike	469	30	72,6	+ 0,6	93	18	40	2†	35	5.20	+1.25	1.25	0	15	21	7	2	e.	J. T. Farrell
Macon	Macon	875	25	71.6	– 1.4	93	19	48	2†	32	7.03	+2.62	1.71	0	15	16	7	7	sw.	W. C. Brown
Mexico	Audrain	800	35	71.6	– 2,1	95	19	49	3	33	6.58	+1.80	1.18	0	13	20	3	7	e.	Mrs. Abbie Snoddy
Palmyra	Marion	652	25	....	......	..	..	..	..	..	6,70	+2.25	1.84	0	10	20^{b}	5^{b}	3^{b}	s.	Highway Department
St. Catharine	Linn	800	13	71.0	– 1.5	90	19	49	2†	26	7.31	+2.53	1.44	0	16	6	21	3	n.	L. D. Baker
St. Charles	St. Charles	456	36	73.6	– 0,6	98	24	51	1†	34	5.50	+1,54	1.10	0	14	4	14	12	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	50	73.3	– 1.5	93	28	54	2	23	6.80	+2.33	2.31	0	18	3	12	15	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	12	73.0	- 1.9	93	28	53	2	24	5.17	+1.41	1.37	0	19	9	15	6	e.	St. Louis University
Shelbina	Shelby	779	31	....	......	..	..	..	..	..	5.52	+0.81	1.60	0	6	..	..	..	......	....
Steffenville	Lewis	650	26	71.3^{a}	– 1.9	93	23	49	2	28	6.96	+2.86	2.15	0	12	15^{a}	11^{a}	3^{a}	s.	Frank Hall
Unionville	Putnam	1,062	31	70.0	– 1.8	93	28	45	3	33	10,64	+5.96	3.45	0	15	15	8	7	nw.	Geo. W. Davis
Warrenton	Warren	816	42	71,6	– 2.0	90	27	51	2†	27	7.10	+3.14	0.74	0	16	16	8	6	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	52	70.4	– 2.1	93	19	50	3	27	5,94	+1.59	1.49	0	12	6	12	12	e.	U. S. Weather Bureau
Section means and	extremes	.....	..	71.5	– 1.6	98	24	40	2†	36	7.05	+2.74	3.45	0	14	12	10	8	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	28	81.0	+ 3.2	101	24†	53	2	33	3.88	–0.10	0.90	0	8	24	5	1	s.	H. E. Averill
Doniphan	Ripley	344	20	75.9	+ 1.1	95	13	47	2	31	5.21	+0.83	0.90	0	12	2	26	2	w.	W.W. Martin
Jackson	Cape Girardeau	428	33	75.4	+ 1.3	95	20	46	1†	33	5.84	+1.55	1.95	0	12	1	6	23	s.	John G. Putz
Marble Hill	Bollinger	470	29	74.8	+ 0.9	92	13	41	2	36	8.12	+3.95	1.92	0	15	12	12	6	w.	R.A. DeWitt
Parma	New Madrid	281	3	....	......	..	..	..	.	..	3.62	......	1.33	0	9	..	..	..	......	J.E. Pearce
Patton (near)	Bollinger	500	15	....	......	..	..	..	..	..	6.63	+2.96	2.20	0	7	..	..	..	....	George F. Ellis.
Poplar Bluff	Butler	329	20	74.6	– 0.8	97	18	49	1	28	2.62	–2.40	0.67	0	10	28	0	2	s.	J. H. Wolpers
Vanduser	Scott	304	23	....	......	..	..	..	..	..	2 78	–1.10	1.00	0	8	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	75.9	– 0.4	93	19	56	2	25	4.78	+0.47	1.16	0	16	3	13	14	s.	U. S. Weather Bureau
Section means and	extremes	....	..	76.3	+ 0.9	101	24†	41	2	36	4.83	+0.68	2.20	0	11	12	10	8	s.	
Ozark Plateau.																				
Arcadia	Iron	926	43	71.2	– 0.8	90	13†	47	2	31	4.62	+0.04	0.85	0	16	11	15	4	w.	Arcadia College
Birchtree	Shannon	1,000	29	73.0	+ 0.3	91	13†	48	2	33	5.78	+1.25	1.60	0	11	18	10	2	se.	V. H. Kirkendall
Bolivar	Polk	1,071	30	74.4	+ 1.6	95	24	50	2	32	7.65	+2.63	3.05	0	13	14	13	3	s.	Southwest Baptist College
Dean ††	McDonald	1,000	25	....	......	..	..	..	..	..	....	......	1.85	0	..	16^{i}	1^{i}	4^{i}	sw.	H. E. Dean
Eldon	Miller	934	28	71,0	– 2.2	96	13	40	2	36	10.24	+5.93	2.61	0	13	5	17	8	s.	E. H. Shepherd
Farmington	St. Francois	918	13	73.4	+ 0.8	96	13†	52	4	36	5.99	+1.36	1.76	0	14	7	18	5	sw.	Robert Forsyth
Gano ††	Dent	1,250	20	73.4	+ 0.6	95	7	47	2	40	6.26	+1.96	2.08	0	13	10	11	9	sw.	A. C. Leach
Goodland	Iron	1,000	30	73.2	+ 1.1	93	24	40	2	38	4.49	+0.39	2.05	0	7	14	9	7	s.	F. M Adams
Greenville	Wayne	381	2	74.4	......	93	13	45	2	32	5.08	......	1.10	0	6	20	6	4	s.	A. M. Rhodes
Hollister	Taney	735	37	71.2	– 4.5	95	13†	38	2†	40	5.45	+1.44	1.40	0	13	10	4	16	se.	Mrs. W. P. Chapmann
Koshkonong	Oregon	958	23	74.4^{a}	+ 0.1	92	24	52	2	26	7.44	+2.96	1.70	0	12	7^{a}	15^{a}	7^{a}	sw.	R. M. Hitt
Lebanon	Laclede	1,265	36	71.6	– 1.5	93	13	45	2	28	6.61	+1.68	1.55	0	13	15	9	6	s.	Thomas E. Mulcare
Lockwood	Dade	1,078	18	74.4	+ 0.4	92	19†	50	2	25	9.54	+4.74	3.65	0	9	23	4	3	sw.	C. S. Crow
Mountain Grove	Wright	1,463	23	73.2	+ 1.6	93	13	45	2	30	6.17	+1.61	1.97	0	14	9	16	5	sw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	36	76.3	+ 2.4	92	14†	46	2	32	5.15	–0.28	1.22	0	12	21	8	1	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	24	74.9	+ 2.1	95	13	52	3	28	7.61	+3.48	1.82	0	11	9	15	6	sw.	Prof. Elmo G. Harris
Seligman	Barry	1,542	22	74.0	+ 1.5	91	13†	49	2	27	8.07	+4.54	1.80	0	13	16	13	1	sw	Floyd E. Fawver
Seymour	Webster	1,642	18	71.6	– 0.4	90	13†	42	2	33	10.71	+6.08	2.16	0	14	13	11	6	se.	Ira H. Hailey
Springfield	Greene	1,350	36	72.4	– 0.1	89	28	51	2	23	7.61	+2.42	3.00	0	12	16	11	3	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	73.2	+ 0.2	96	13†	38	2†	40	6.88	+2.45	3.65	0	12	14	11	5	sw.	
Southwest Plain.																				
Appleton City	St. Clair	853	30	74.0	– 0.8	92	13	50	2	25	9.46	+4.47	2.60	0	14	10	17	3	ne.	W. G. Bigelow
Clinton	Henry	765	31	75.8	+ 2.4	95	18†	50	2†	32	9.76	+5.03	4.39	0	19	12	14	4	sw.	A. E. Derwent, M. D
Harrisonville	Cass	904	47	71.5	– 1.9	93	19	50	2†	33	5.07	+0.61	0.82	0	18	1	4	25	se.	John H. Patterson
Lamar	Barton	980	37	74.0	– 0.4	93	18	50	2	27	5.78	+0.82	1.73	0	14	14	13	3	sw.	Jesse A. Mann
Lamonte	Pettis	867	23	73.0	– 1.3	92	19†	48	2†	31	8.81	+4.32	2.36	0	18	15	7	8	se.	J. E. Wheeler
Marshall	Saline	779	35	73.0^{a}	– 0.9	91	20†	47	3	31	8.16	+3.84	1.82	0	13	9^{a}	19^{a}	1^{a}	ne.	Dr. W. H. Black
Nevada	Vernon	862	31	74.4	+ 0.8	93	27	52	2†	26	6.45	+1.34	1.90	0	10	16	9	5	s.	George A. Kaupp
Warrensburg	Johnson	878	37	72.8	– 1.4	92	14†	46	2	35	11.23	+6.47	4.10	0	18	11	12	7	sw	E. A. Markey.
Warsaw	Benton	687	24	74.4	+ 0.7	92	14†	48	2	31	12.61	+7.44	4.12	0	13	12	15	3	w.	Everett Martin
Section means and	extremes	.....	..	73.7	– 0.2	95	18†	46	2	35	8.56	+3 75	4.39	0	15	11	13	6	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	34	71.5	– 2.1	92	19	49	3	33	9.60	+5.24	2.40	0	12	9	18	3	.....	F. G. Ashbaugh
Bethany	Harrison	916	32	....	......	..	..	..	..	..	....	......	....	0	..	..	..	..	......	Owen Ross
Chillicothe	Livingston	779	15	70.5	– 3.7	92	19	45	3	31	12.16	+7.09	2.18	0	17	10	15	5	e.	Wm. J. Olenhouse
Conception	Nodaway	980	35	70.0	– 1.6	89	22	49	6	31	10.53	+5.98	2.75	0	13	4	21	5	se.	Fr. Adelhelm Hess
Edgerton	Platte	856	4	71.8	......	91	14	46	3	32	10.29	+5.18	3.30	0	17	28	0	2	s.	Fred L. Stiff
Grant City	Worth	1,134	20	69.5	– 1.8	88	14†	46	6	29	9.62	+5.07	1.50	0	13	8	21	1	nw.	B. F. Locke
Kansas City	Jackson	963	35	72.4	– 1.2	95	19	52	1	28	7.87	+3.21	3.14	0	18	9	17	4	e.	U. S. Weather Bureau
Kidder	Caldwell	1,020	31	69.8	– 2.6	92	19	47	3	34	12.38	+8.02	2.57	0	19	12	5	13	nw.	Linn Terry
Lexington	Lafayette	688	39	72.4	– 0.4	94	19	50	3	29	8.05	+3.28	2.00	0	20	8	19	3	s.	Edwin G. Loomis
Liberty	Clay	859	34	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	....	....
Maryville	Nodaway	1,169	34	69.2	– 0.4	87	14	41	1	31	13.53	+8.90	4.13	0	18	11^{a}	5^{a}	13^{a}	e.	J. R. Brink
Oregon	Holt	1,048	68	69.6	– 2.7	89	14	50	1†	25	8.07	+3.34	1.37	0	14	11	14	5	se.	Tom Curry
St. Joseph	Buchanan	967	16	71.6	– 2.8	91	14	50	3	30	10.36	+6.72	2.74	0	20	16	10	4	se.	U. S. Weather Bureau
Tarkio	Atchison	916	21	69.2	– 3.5	90	14	47	1	29	10.02	+5.21	2.59	0	12	9	14	7	se.	Albert Volker
Trenton	Grundy	822	28	69.8	– 2.8	89	19	50	6	21	9.77	+5.47	1.54	0	14	15	10	5	e.	W. H. Estes
Section means and	extremes	.....	..	70.6	– 2.1	95	19	41	1	34	10.17	+5.59	4.13	0	16	12	13	5	e.	
State means and	extremes	.....	..	72.5	– 1.0	101	24†	38	2†	40	7.39	+2.72	4.39	0	14	12	12	6	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for June, 1924.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	.06	....	.42	.02	.08	....	....	.15	....	.80	.95	.70	.40	....	.15	....	....	1.25	.05	....	.20	....	....	....	1.40	....	.50	.02	....	....	....	7.15
Brunswick‖	Grand	.37	....	.47	.52	....	....	....	.74	....	1.76	.70	....	1.55	....	.16	....	....	1.18	....	....	.30	....	.04	....	1.25	....	.50	.05	....	....	....	9.59
Clifton Hill	Chariton	.41	.14	....	.04	....	....	.02	.63	....	.40	.80	1.01	....	....	.50	T.	1.00	T.	....	.10	....	....	.04	.17	.70	.20	....	.03	....	....	....	6.19
Columbia***	Missouri	.33	.37	....	.14	T.	....	....	.51	.25	.34	1.41	.86	....	....	.12	....	1.60	T.	....	.18	T.	.02	.01	1.17	.02	.36	.03	....	....	....	....	7.72
Downing	Mississippi	....	.60	.20	....	1.15	....	.30	1.94	....	....	....	.58	....	....	....	....	.80	....	....	.01	....	....	....	2.50	....	.75	....	.14	....	....	....	8.97
Fayette‖	Missouri	....	....	.48	.20	T.	....	....	.07	....	1.49	1.32	1.28	....	....	.35	....	1.40	....	....	.19	....	....	.04	.50	....	....	.24	T.	....	....	....	7.56
Fulton	....do	.57	.33	.05	.16	....	.02	....	.28	.10	.26	2.41	.85	....	....	.17	....	2.10	.05	....	.02	....	.18	.31	....	.30	.50	....	....	....	....	....	8.66
Gorin	Mississippi	.07	....	....	.73	.74	....	.12	1.11	.01	....	....	.43	....	....	.29	....	.44	.05	....	.04	....	....	....	.30	2.35	.30	....	.31	....	....	....	7.29
Hannibal***	....do	.22	....	....	.03	.94	....	....	.48	.04	.50	.07	.56	T.	....	.30	....	1.10	T.	....	T.	....	.01	T.	1.56	....	.57	....	T.	....	....	....	6.38
Hermann‖	Missouri	.71	....	.76	....	.15	.36	....	.14	1.55	.22	1.95	.22	.80	....	.57	....	....	.80	.86	....	.49	....	....	.96	.21	....	.24	....	....	....	....	10.99
Jefferson City‖	....do	.75	....	.57	....	.07	....	....	.25	.03	.42	.30	....	.77	....	.05	....	....	.75	.32	....	.30	....	.05	....	.70	....	.42	....	....	....	....	5.75
Kirksville	Mississippi	....	....	.20	....	.55	....	....	.95	....	....	.36	2.05	....	....	.64	....	....	....	....	.06	....	....	....	.53	1.65	.45	....	.15	....	....	....	7.59
Louisiana	....do	.70	....	....	.06	.26	.08	....	.60	....	.20	.18	.34	T.	....	....	....	1.25	.08	....	....	.12	.04	.16	....	.58	.55	....	T.	....	....	....	5.20
Macon‖	Chariton	.41	....	....	.16	....	.02	....	1.30	....	.36	.12	.07	.59	....	.63	....	....	1.71	....	....	.06	....	....	.11	1.00	....	.42	.07	....	....	....	7.03
Mexico‖	Mississippi	.42	....	.10	....	....	.20	....	.37	....	1.18	.18	....	.87	....	.70	....	....	.72	.02	T.	....	....	....	.70	.82	....	.30	....	....	....	....	6.58
Milan‖	Grand	.30	....	T.	.15	....	.55	.25	1.10	.10	....	.25	T.	.35	....	.62	T.	....	1.30	....	.03	.40	....	.05	.30	1.17	....	.32	.07	....	....	....	7.31
Pacific‖	Meramec	.38	....	.29	....	.03	.46	T.	T.	.70	.04	.68	.08	.83	....	.48	....	....	.32	.88	....	.23	.01	.11	.04	.15	.01	.13	T.	....	....	....	5.85
Palmyra‖	Mississippi	.30	....	....	....	....	.40	....	.61	....	.21	.05	....	.79	....	.43	....	....	1.40	....	....	....	....	....	....	1.84	....	....	.67	....	....	....	6.70
St. Catharine	Grand	.83	.03	....	.06	.02	....	.12	1.44	.01	.22	.40	.64	....	T.	.60	T.	.75	T	....	.22	T.	....	....	.89	T.	1.02	....	.06	....	....	....	7.31
St. Charles	Missouri	....	....	.13	....	.09	.66	....	.14	.06	....	.59	1.10	.31	....	.33	....	.80	.70	....	.33	....	....	....	....	.09	.17	....	....	....	....	....	5.50
St. Louis (1)***	Mississippi	40	.12	....	.12	.27	....	....	.04	.15	.09	.53	.21	.65	....	.27	....	.56	.90	....	.06	T.	T.	2.31	.01	.03	.08	....	T.	....	....	....	6.80
St. Louis (2)	....do	.44	.12	....	.10	.23	....	....	.02	.10	.12	.50	.17	.54	....	.27	....	.60	.77	....	.22	....	.02	.77	.04	.06	.08	....	....	....	....	....	5.17
Shelbina‖	....do	....	....	....	....	....	....	....	....	....	....	.70	.55	....	....	.65	....	1.50	....	....	....	....	....	....	1.60	....	.52	....	....	....	....	....	5.52
Steffenville	....do	.25	....	.25	.18	....	....	....	.95	....	.17	....	2.15	....	....	.38	....	.55	.05	....	T.	....	....	....	.10	1.35	.58	....	....	....	....	....	6.96
Union‖	Meramec	.40	....	.58	....	.04	.75	....	....	.74	.10	2.04	.10	.70	....	.28	....	....	.51	.45	....	.30	....	.01	.12	.22	....	.36	....	....	....	....	7.70
Unionville	Chariton	.25	T.	....	.70	.50	....	1.15	2.30	.10	....	.25	.70	....	T.	.90	....	.65	.10	....	.55	....	....	....	1.04	.95	.50	....	....	....	....	....	10.64
Valley Park‖	Meramec	.39	....	.22	....	.08	.84	....	T.	.56	1.00	.69	.26	.62	....	.44	....	....	.88	.74	....	.40	....	.12	.85	.13	....	.09	....	....	....	....	8.31
Warrenton	Mississippi	.65	T.	.33	.13	....	.38	....	.27	.56	.37	.44	.65	....	....	.73	....	.74	.61	....	.68	....	....	.25	....	.15	.16	....	....	....	....	....	7.10
Keokuk, Ia.***	....do	.06	....	....	.09	1.49	....	.10	.73	....	....	....	.14	T.	....	.52	....	.40	....	....	T.	....	.56	T.	1.22	....	.15	T.	.48	....	....	....	5.94
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi	.08	....	.05	....	....	.18	....	....	.97	.03	....	1.52	....	.09	....	....	....	.03	.16	....	.32	....	.08	.72	....	.04	.02	....	1.97	....	....	6.21
Caruthersville	....do	....	....	.35	....	....	.38	....	.10	....	.90	.45	....	....	....	T.	....	T.	T.	....	.45	....	T.	.90	....	.85	T.	....	....	T.	....	....	3.88
Doniphan	Black	.08	....	.50	....	....	.55	....	....	.04	.65	.90	....	....	....	.85	T.	T.	.03	....	.21	....	.04	.64	....	.72	T.	....	....	....	....	....	5.21
Jackson	Mississippi	.06	....	....	....	....	.27	....	....	1.77	.02	1.95	....	....	....	....	....	....	.24	....	.50	.30	....	.07	....	.01	....	.09	....	.56	....	....	5.84
Leeper‖	Black	....	....	.20	....	....	.35	....	....	.04	.40	.20	....	....	....	....	....	....	.15	....	....	....	....	.50	....	.35	.25	.15	....	....	....	....	2.59
Marble Hill	Mississippi	....	.28	....	....	....	.56	....	....	.52	.12	1.92	.12	.08	....	....	....	.08	.30	....	1.33	....	....	.78	....	.12	.06	.75	1.10	....	....	....	8.12
New Madrid‖	....do	....	....	.17	....	....	.65	.31	....	....	.13	.02	.56	....	....	....	....	....	.07	....	....	.66	....	....	.80	....	.16	.81	....	.27	.01	....	4.62
Parma	St. Francis	....	....	.23	....	....	.42	....	....	....	.27	.20	....	....	....	....	....	....	.45	....	....	.26	....	1.33	....	....	.18	....	....	.28	....	....	3.62
Patton (near)	Mississippi	....	....	....	....	....	....	....	....	1.52	...	2.20	....	....	....	....	....	....	.67	....	1.20	....	....	.27	....	....	....	.37	.40	....	....	....	6.63
Poplar Bluff	Black	....	.23	....	....	.17	....	....	T.	.30	....	.08	....	....	....	.02	....	....	....	....	.28	....	.07	.41	.39	.67	....	....	....	....	....	....	2.62
Vanduser	Mississippi	....	....	....	....	....	....	.58	....	....	....	.65	....	....	.02	....	....	....	.18	....	.25	....	....	.05	....	.05	....	....	1.00	....	....	....	2.78
Cairo, Ill.***	....do	T.	.01	.06	....	....	.05	....	T.	1.01	.01	.66	....	1.16	....	....	....	.04	.05	...	.03	T.	.08	.27	....	.02	.57	.06	....	.70	....	....	4.78
Ozark Plateau.																																	
Annapolis‖	St. Francis	....	.57	....	....	....	.65	....	....	.27	....	1.27	....	....	....	....	....	....	.17	....	1.00	....	....	.88	....	1.00	....	....	.18	....	....	....	5.99
Arcadia‖	....do	.06	....	.30	T.	....	.68	....	....	.26	.37	.22	.85	.22	....	T.	T.	...	.13	.25	....	.45	T.	.50	.17	.12	.02	.02	....	....	....	....	4.62
Birchtree	Black	.16	....	.17	....	....	....	....	....	..	.40	.75	....	....	....	.73	....	.20	.05	....	.62	.78	....	....	....	1.60	.32	....	....	....	....	....	5.78
Bolivar‖	Osage	.19	.03	.25	. ..	....	.03	....	....	* *	3.05	.. .	....	....	.69	.20	.23	....	....	....	1.65	....	....	.23	....	....	1.00	.10	....	....	....	....	7.65
Dean	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
De Soto‖	Mississippi	.07	.39	....	....	.58	....	....	....	.26	..	1.36	.55	....	....	....	T.	.47	.65	....	.17	....	T.	.41	....	.19	.03	.07	....	....	....	....	5.20
Eldon	Missouri	1.57	....	.05	T.	....	....	....	.13	2.61	....	....	1.89	....	....	.10	....	.83	.38	....	.99	.16	.10	....	....	.70	.73	....	....	....	....	....	10.24
Farmington	St. Francis	.05	....	....	....	....	.46	T.	....	.34	.05	1.76	.23	....	....	....	....	.14	.82	....	.15	.03	....	.68	....	.18	.05	1.05	....	T	....	....	5.99
Fredericktown‖	....do	....	.33	.72	....	.67	.46	.92	.24	....	.42	....	1 83	.35	.03	.02	.04	T.	.43	.04	.06	.08	....	....	.03	....	.06	....	T.	.02	....	....	6.75
Galena‖	White	.25	....	....	.15	....	.50	....	....	....	2.10	....	.35	....	....	.42	....	1.00	..	....	....	1.35	.45	....	....	....	3.05	....	....	....	....	....	9.62
Gano	Meramec	.07	....	.05	....	....	.35	....	....	.12	.44	1.19	.36	....	....	.33	T	1.33	.75	....	.54	....	T.	T.	....	.54	.19	....	....	....	....	....	6.26
Goodland	Black	....	....	....	....	....	.91	....	....	....	....	....	2.05	....	....	....	....	.45	.44	....	.18	.17	....	....	....	.29	....	....	....	....	....	....	4.49
Greenville	St. Francis	....	....	....	....	....	1.10	....	....	....	....	.70	.10	....	....	....	....	....	....	....	1.05	....	....	1.03	....	1.10	....	....	....	....	....	....	5.08
Hollister	White	....	....	....	.10	.35	....	....	....	.30	.80	.40	....	.20	.30	....	1.40	....	.30	.20	.40	....	.30	....	....	.40	....	....	....	....	....	....	5.45
Jerome‖	Gasconade	.18	....	.04	...	....	.08	....	....	.13	.78	1.25	.20	.33	....	.40	....	....	1.25	1 11	....	.40	.02	....	....	1.85	.15	.04	....	....	....	....	8.21
Koshkonong	Black	.19	....	.53	....	....	....	....	....	.32	.72	1.63	....	....	.10	.88	T.	....	T.	....	.52	.26	.14	T.	....	1.70	.45	....	....	....	....	....	7.44
Lebanon‖	Osage	.12	....	....	....	....	.10	....	....	....	1.55	1.35	.10	T.	.04	....	....	.05	1.43	.32	....	.90	....	T.	....	.19	T.	.40	.06	....	....	....	6.61
Lockwood	....do	.33	T.	....	....	....	....	....	....	3.65	.60	T.	....	....	.41	.45	.10	....	....	....	2.75	.65	. .	.60	....	....	....	....	....	....	T.	....	9.54
Mineral Point‖	Meramec	....	....	....	.70	....	....	....	....	.20	.20	....	.40	....	....	....	....	.	1.00	.40	....	....	....	....	.30	....	....	....	....	....	....	....	3.20
Mountain Grove‖	White	.08	.04	....	T.	....	....	....	....	.40	.67	.33	....	....	T.	1.97	.15	.43	.02	...	1.25	.24	T.	T.	....	.06	.10	.43	....	T.	....	....	6.17
Neosho	Neosho	.19	.25	T.	....	....	.02	....	....	.76	1.22	T.	....	....	.48	....	.56	....	....	....	.18	.40	.35	.53	....	....	.21	....	T.	....	T.	....	5.15
Rolla	Meramec	....	....	....	....	.11	....	T.	....	.71	1.17	....	.65	....	....	.09	....	1.82	.80	....	.42	....	.17	....	1.62	....	.05	....	....	....	....	....	7.61
Seligman	Neosho	.46	.30	....	....	....	.22	....	....	.43	.44	1.80	....	....	.39	..	1.50	....	....	....	.92	.26	.39	.62	....	.34	....	....	....	....	....	....	8.07
Seymour	White	.06	T.	T	T.	....	....	....	....	48	.38	1.68	....	....	.26	.68	.30	1.25	T.	....	2.16	.06	T.	....	....	2.05	.05	85	....	.45	....	....	10.71
Springfield***	....do	.07	T.	....	T.	....	....	....	....	1.65	.15	.23	T	....	81	.74	.29	T.	....	.	3.00	....	T.	.20	....	.23	....	.11	.13	T	....	....	7.61
Steelville‖	Meramec	.13	....	.15	....	....	.45	.45	T.	.17	.45	....	.51	.46	....	....	....	....	.84	.16	...	.14	....	.03	....	.77	....	....	....	....	T.	....	4.71
Tuscumbia‖	Osage	.71	....	.11	....	...	T.	....	.07	1.88	.45	.50	....	.92	....	.10	...	....	.71	.26	.05	.69	....	.05	T.	.76	....	.95	.01	....	T.	....	8.22
Willow Sprgs.‖ (near)	White	.21	....	.10	....	....	T.	....	....	....	1.20	....	.60	....	....	.80	.40	.03	....	.05	....	1.39	....	.06	....	....	.69	.22	....	....	....	....	5.75
Southwest Plain.																																	
Appleton City	Osage	.64	T.	.05	.02	....	....	....	.26	2.60	.33	....	....	....	.23	1.16	.09	.06	....	....	1.51	.06	....	.52	....	....	1.93	....	. .	....	....	....	9.46
Clinton	....do	.34	....	.07	.08	....	....	.50	.30	.15	.50	.05	.07	.05	....	.10	....	1.35	.12	....	1.22	.05	...	.22	....	.20	3.14	1.26	....	....	....	....	9.76
Harrisonville‖	....do	.16	....	.09	.06	....	....	.02	.21	....	.32	.03	....	....	.08	.60	....	.01	.60	....	.02	.82	....	.48	....	.01	.80	.75	.01	....	....	....	5.07
Joplin*	Neosho	.02	.11	....	....	.33	....	....	T.	2.05	....	.09	....	....	.47	....	.58	....	....	....	.85	....	....	.69	....	....	....	....	....	....	....	....	5.19
Lamar‖	....do	.12	....	.12	....	.10	....	....	....	.12	1.73	.50	....	....	.17	.18	.25	.18	....	....	.20	1.57	....	.46	....	....	....	.08	....	....	....	....	5.78
Lamonte	Missouri	.11	.15	....	.15	....	....	.04	.43	.33	.03	.20	1.55	....	....	.13	....	.95	.05	....	.85	....	.03	.05	....	2.36	.45	.95	....	....	....	....	8.81
Marshall	....do	....	.40	....	.30	....	....	....	.10	T.	1.15	1.15	1.31	....	....	.11	....	1.32	.01	....	.61	....	....	T.	T.	1.00	.60	.10	....	....	....	....	8.16
Nevada	Osage	.34	....	....	....	....	....	....	....	1.66	..	.07	....	....	.82	.70	.40	....	....	....	1.90	.05	....	.48	....	.03	....	....	....	....	....	....	6.45
Osceola‖	....do	.69	....	1.00	.10	....	....	....	.07	.20	.38	.15	..	....	.20	.12	....	.20	.30	....	....	.75	....	.23	....	....	1 03	.20	....	....	....	....	5.62
Warrensburg	Missouri	1.03	.08	.08	.14	....	....	....	.46	.09	.60	.03	.56	....	.03	.23	....	.99	.19	....	.53	T	....	.35	....	1.18	.56	4.10	....	....	....	....	11.23
Warsaw	Osage	.53	....	....	T.	....	...	....	.33	1.45	.35	1.10	.26	....	T.	.05	T.	2.10	T.	....	1.70	....	...	.30	...	.32	2.37	1.75	....	T.	....	....	12.61
Waverly‖	Missouri	20	....	.37	.27	....	....	T.	.24	....	1 61	.72	1.02	....	....	.15	....	T.	.60	T.	T	.40	....	.07	....	.95	T.	.65	.01	....	....	....	7.26
Northwest Plateau.																																	
Albany‖	Grand	.50	.03	T	.30	.42	....	.42	1.38	....	....	.60	1.09	....	....	.52	T.	.05	.26	....	.30	.17	....	.42	.96	....	....	....	....	....	....	....	7.42
Avalon	....do	....	.60	.10	....	....	....	1.40	....	....	.30	.50	1.90	....	.40	....	....	1.60	....	....	.60	....	....	....	1.60	....	.50	.10	....	...	....	....	9.60
Bethany	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Chillicothe‖	....do	.42	....	.61	.06	....	T.	T.	1.10	.22	.51	.67	2.00	.92	....	.33	T.	....	1.75	....	. .	.37	....	.14	.02	2.18	....	.81	.05	....	....	....	12.16
Conception	Missouri	.41	....	....	.13	....	T.	.59	.27	....	T.	1.66	2.75	....	....	65	T.	.17	....	....	.58	....	....	.58	1.74	.19	.81	....	....	....	....	....	10.53
Edgerton	....do	.23	.02	....	.28	....	....	.08	.31	....	.79	.06	.20	....	.13	.29	T.	.36	....	....	1.06	....	....	.70	....	2.00	.47	3.30	.01	....	....	....	10.29
Gallatin	Grand	.45	....	.35	....	....	....	.30	1.25	.70	.10	.85	1.00	.40	....	.30	....	....	.85	....	....	.40	....	.40	T.	1 14	....	.90	T.	....	....	....	9 39
Grant City	....do	.60	.23	....	....	....	....	1.04	.41	....	....	.37	1.37	....	T.	1.10	T.	.96	.05	....	.72	....	....	.26	1.50	T.	1.01	....	....	T.	T.	....	9.62
Kansas City***	Missouri	.07	.02	.02	.44	....	T.	.10	.09	.10	....	....	72	T.	T.	.37	.01	.82	.03	....	.61	....	.49	.54	.30	....	1.71	1.43	T.	T.	....	....	7.87
Kidder‖	Grand	.36	....	.17	.07	....	....	.43	1.15	....	.29	.35	2.15	.18	....	.30	.02	....	2.57	....	....	.55	...	.52	.02	2.27	.11	.84	.03	....	....	....	12.38
Lexington	Missouri	.25	.01	.05	.54	....	....	....	.27	.06	1.15	.32	.74	.61	....	.17	....	....	.45	....	....	.44	.02	.60	.06	2.00	.15	.10	.06	....	....	....	8.05
Liberty	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Maryville	....do	.55	.12	...	.05	....	....	.59	.33	.12	....	1.11	4.13	1.24	....	.91	....	.17	1.35	....	.58	.23	....	.38	.61	.03	....	1.03	.. .	....	....	....	13.53
Oregon	....do	.08	.04	.12	....	....	....	.39	1.37	....	....	...	.92	....	....	.65	.11	.85	.02	....	.72	....	.58	1.26	....	.96	....	....	....	....	....	....	8.07
St. Joseph***	....do	.03	....	.05	.13	....	....	1.09	.06	.51	.01	.01	.79	....	....	.63	T.	1.38	.01	....	.47	....	.74	.26	2.74	.01	1.06	.26	.12	....	....	....	10.36
Tarkio	....do	....	....	.03	....	....	....	.66	.04	....	....	1.63	2.59	..	....	.36	....	1.22	....	....	.38	.12	...	.52	.80	....	1.67	....	....	....	....	....	10.02
Trenton	Grand	....	.39	.20	....	T.	....	1.01	1.49	.04	....	.52	1.34	T.	T.	.55	T.	1.00	.04	....	.33	....	.11	....	1.21	....	1.54	T.	T.	T.	....	....	9.77

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for June, 1924.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	70	75	79	82	87	78	84	87	83	83	88	81	88	92	87	82	73	87	94	77	85	87	91	92	86	75	90	88	75	75	..	83.4
	Minimum	54	50	49	53	59	52	55	56	62	62	62	64	65	70	66	65	65	64	70	69	63	66	67	68	63	68	66	70	61	57	..	62.0
Columbia	Maximum	66	73	74	79	88	71	84	87	80	79	84	78	85	87	84	79	73	86	92	76	80	86	86	90	79	72	88	88	72	73	..	80.6
	Minimum	52	49	49	59	57	56	56	64	64	63	60	65	68	70	65	65	64	68	73	66	66	71	71	64	65	67	66	72	59	55	..	63.0
Fayette	Maximum	68	70	75	78	85	72	84	86	81	78	83	80	86	88	84	79	72	85	91	77	80	85	88	89	80	73	86	88	73	74	..	80.6
	Minimum	52	48	47	56	56	53	54	61	62	61	60	65	64	69	64	64	63	62	68	70	64	67	67	72	63	66	65	69	60	51	..	61.4
Hannibal	Maximum	70	73	73	76	80	69	78	84	79	78	83	81	86	86	82	77	72	86	93	82	82	87	87	87	81	75	86	89	72	70	..	80.1
	Minimum	54	52	51	58	58	56	54	59	68	63	63	64	68	68	65	64	64	68	76	70	66	72	66	66	66	66	66	70	61	55	..	63.2
Jefferson City §§	Maximum	67	75	76	83	87	73	85	89	79	79	85	75	92	88	84	81	77	84	91	81	82	85	90	89	79	73	90	78	71	74	..	81.4
	Minimum	53	49	49	56	58	57	57	61	66	63	61	63	64	70	66	64	63	63	68	74	65	68	72	71	65	68	65	72	67	62	..	63.3
Kirksville	Maximum	74	74	77	77	76	70	68	69	84	77	86	80	84	84	81	76	78	85	90	83	82	85	89	85	79	76	84	83	71	73	..	79.3
	Minimum	51	49	47	56	58	49	48	46	48	56	60	60	66	65	62	61	64	62	68	64	58	59	66	65	62	63	62	61	53	50	..	58.0
Louisiana	Maximum	75	75	75	85	85	72	80	84	85	80	85	86	87	86	86	78	86	93	92	81	89	90	90	91	90	80	92	90	86	76	..	84.3
	Minimum	48	40	48	53	53	40	50	62	66	65	58	64	65	60	65	62	60	65	74	66	66	68	65	68	65	68	70	76	62	58	..	61.0
Macon §§	Maximum	71	77	79	81	84	74	82	86	82	81	88	81	89	91	85	83	70	88	93	80	86	87	90	91	83	78	90	88	74	74	..	82.9
	Minimum	51	48	48	55	57	50	50	55	62	60	61	64	62	66	64	61	63	64	68	67	62	62	67	68	65	66	65	68	59	53	..	60.4
Mexico §§	Maximum	68	71	75	80	89	73	84	90	80	78	85	71	85	89	83	80	72	86	95	80	84	90	87	90	80	76	90	92	70	74	..	81.6
	Minimum	52	51	49	55	56	53	53	57	68	63	61	62	64	67	64	61	63	63	69	72	65	65	70	70	65	67	63	67	60	54	..	61.6
St. Catharine	Maximum	69	74	75	76	78	72	77	82	80	74	82	78	83	86	82	78	76	84	90	86	81	85	89	85	83	80	84	86	78	73	..	80.2
	Minimum	52	49	49	57	58	50	53	58	65	60	62	65	69	69	65	63	65	65	73	65	61	69	67	67	65	67	67	69	59	54	..	61.9
St. Louis(1)	Maximum	68	74	74	75	87	74	81	88	86	79	79	78	87	85	84	74	79	85	92	90	83	85	80	88	82	79	90	93	77	75	..	81.7
	Minimum	55	54	55	59	64	62	58	65	68	67	63	62	67	72	66	63	64	64	71	72	70	71	63	65	69	70	69	76	65	61	..	65.0
Unionville	Maximum	72	75	78	78	75	72	70	84	80	81	87	85	88	88	84	82	78	85	92	84	84	86	89	86	80	78	86	93	74	71	..	81.5
	Minimum	50	50	45	54	57	46	48	53	60	54	60	65	65	65	62	60	62	62	72	62	55	65	66	64	60	62	62	63	55	51	..	58.5
Warrenton	Maximum	70	68	68	78	77	77	81	81	81	75	81	82	82	84	84	79	75	82	87	87	81	82	84	87	87	79	90	89	85	71	..	80.5
	Minimum	52	51	51	57	60	56	54	71	68	62	62	64	65	68	63	61	61	64	70	68	65	68	68	66	65	67	64	75	60	55	..	62.7
Southeast Lowlands.																																	
Caruthersville	Maximum	84	86	83	88	90	80	93	90	94	93	82	95	93	93	97	90	98	98	100	95	91	93	96	101	100	96	101	101	95	84	..	92.7
	Minimum	58	53	61	62	65	68	65	67	75	68	72	68	70	73	72	68	70	71	78	78	73	70	70	71	73	70	74	76	72	64	..	69.2
Doniphan	Maximum	73	78	80	84	85	83	88	89	88	88	83	83	95	93	91	84	89	87	92	92	86	84	91	94	88	90	92	93	88	80	..	87.0
	Minimum	54	47	54	53	62	63	58	74	72	65	66	64	67	71	66	61	59	63	74	74	69	67	71	67	66	64	69	72	73	60	..	64.8
Jackson	Maximum	75	79	79	81	88	83	87	91	90	86	83	84	92	92	89	81	89	83	93	95	87	86	88	94	91	91	90	94	93	81	..	87.2
	Minimum	46	46	55	54	61	62	55	74	65	66	61	64	64	69	65	63	59	65	75	72	68	67	68	62	74	67	68	73	64	60	..	63.7
Poplar Bluff	Maximum	66	71	73	79	86	80	83	93	88	90	84	78	84	84	84	84	90	97	92	84	91	85	87	94	86	94	86	94	88	75	..	85.0
	Minimum	49	55	55	60	63	58	58	72	61	66	66	67	72	66	63	60	65	71	73	69	67	71	66	66	63	69	72	72	60	51	..	64.2
Cairo, Ill.	Maximum	70	75	76	81	86	75	86	87	87	83	78	85	90	85	87	78	87	82	93	91	86	82	88	89	85	86	91	92	83	76	..	84.0
	Minimum	58	56	59	60	67	66	61	76	68	68	65	68	68	69	72	68	67	70	76	73	71	71	69	66	75	69	71	76	67	64	..	67.8
Ozark Plateau.																																	
Arcadia §§	Maximum	66	75	75	80	85	72	83	87	81	82	78	76	90	84	86	74	82	80	90	88	85	81	82	89	83	83	89	90	71	76	..	81.4
	Minimum	49	47	52	49	57	58	53	59	63	63	62	61	62	66	64	62	55	64	67	71	66	67	68	62	66	62	61	70	67	58	..	61.0
Birchtree	Maximum	70	75	75	82	83	75	83	87	85	83	79	80	91	89	83	78	80	82	89	85	83	80	86	89	89	82	87	91	87	75	..	82.8
	Minimum	51	48	54	53	50	60	54	72	66	64	65	65	65	72	65	62	60	64	73	69	66	65	71	69	65	64	67	70	67	58	..	63.1
Eldon	Maximum	68	76	78	84	69	73	78	80	78	82	82	82	96	89	85	81	79	85	90	80	85	86	79	89	69	77	80	91	79	77	..	80.9
	Minimum	51	40	48	55	56	55	55	63	60	60	60	60	69	70	64	61	62	66	70	66	64	66	64	68	64	64	65	72	65	49	..	61.1
Farmington	Maximum	64	79	77	84	88	78	91	92	89	85	85	76	96	91	85	77	70	76	95	88	85	86	83	96	84	81	94	93	84	75	..	84.2
	Minimum	56	57	53	52	60	59	55	62	64	63	61	65	63	68	66	61	58	64	70	70	67	67	67	64	66	61	66	71	63	57	..	62.5
Hollister	Maximum	70	78	76	77	85	80	82	90	86	88	80	85	95	86	93	78	92	94	92	94	86	86	95	90	92	91	93	95	80	79	..	86.3
	Minimum	45	38	38	39	42	45	46	50	51	52	48	50	60	65	65	65	65	67	68	67	64	60	62	60	65	64	68	70	55	50	..	56.1
Koshkonong	Maximum	70	75	78	83	84	78	..	87	83	87	78	85	91	85	88	80	87	83	91	85	84	80	87	92	89	89	90	91	80	76	..	[a]84.0
	Minimum	55	52	55	57	64	65	..	60	66	65	67	65	70	68	65	65	63	66	73	70	67	66	71	70	67	64	67	69	64	60	..	[a]64.7
Lebanon §§	Maximum	65	74	78	80	83	74	83	87	77	82	84	82	93	92	84	78	79	83	89	81	82	83	87	86	83	80	88	90	73	75	..	81.8
	Minimum	52	45	49	53	57	55	55	61	65	60	61	65	65	72	65	63	64	67	69	70	62	64	65	65	65	65	64	65	62	52	..	61.4
Mountain Grove §§	Maximum	64	75	78	83	83	79	81	86	83	85	83	81	93	87	86	80	80	80	88	82	83	82	89	88	88	84	87	92	85	75	..	83.0
	Minimum	54	45	50	56	61	58	59	70	70	61	67	65	70	68	67	62	64	66	71	66	64	63	69	69	68	64	63	72	64	56	..	63.4
Neosho	Maximum	75	78	80	86	86	86	89	85	85	87	88	90	91	92	89	86	91	92	92	89	85	83	91	89	88	88	92	92	91	76	..	87.1
	Minimum	58	46	49	55	65	61	63	76	62	63	71	62	70	67	68	67	66	72	75	70	64	66	63	72	74	67	72	74	68	59	..	65.5
Rolla	Maximum	68	75	76	81	87	86	85	91	88	85	87	87	95	92	86	83	80	82	94	92	87	87	92	92	90	79	93	90	87	75	..	85.7
	Minimum	53	60	52	57	60	58	57	71	66	61	63	64	69	72	67	62	64	65	74	70	65	67	71	70	62	65	66	75	63	55	..	64.1
Springfield	Maximum	64	72	74	79	83	73	83	85	79	83	79	85	89	84	84	72	80	84	88	78	81	81	85	87	84	83	88	89	71	73	..	80.7
	Minimum	54	51	53	58	66	60	60	71	61	62	67	65	73	64	63	66	67	68	74	65	61	66	63	72	66	66	67	69	62	58	..	64.0
Southwest Plain.																																	
Appleton City	Maximum	66	74	78	84	86	75	86	86	80	78	85	82	92	88	86	83	80	91	90	85	78	83	86	89	81	78	91	90	83	77	..	83.0
	Minimum	54	50	53	59	66	57	62	65	61	64	68	67	74	67	64	66	65	70	78	65	65	70	64	75	69	66	66	77	62	55	..	64.9
Clinton	Maximum	67	77	80	86	90	80	90	90	80	82	88	86	98	94	91	87	85	95	95	87	81	90	93	95	85	85	94	94	80	84	..	87 0
	Minimum	53	50	50	67	63	57	65	70	63	64	66	66	73	68	67	55	65	70	68	65	65	66	65	75	68	70	74	78	60	55	..	64.7
Harrisonville §§	Maximum	65	75	78	83	85	74	85	86	81	78	84	79	88	91	85	81	75	89	93	76	78	83	85	88	78	75	88	88	76	78	..	81.6
	Minimum	52	50	50	50	56	53	55	62	60	60	64	65	66	66	64	65	64	63	72	66	63	65	72	63	69	66	64	67	57	53	..	61.4
Lamar §§	Maximum	66	73	77	82	84	76	86	86	71	84	86	89	90	89	85	81	91	93	91	77	84	82	86	90	84	86	92	91	74	76	..	83.4
	Minimum	55	50	51	55	62	58	60	68	65	63	65	65	69	67	64	66	68	71	75	73	65	68	64	67	71	69	70	72	63	56	..	64.5
Lamonte	Maximum	70	76	79	81	88	75	85	87	87	82	87	79	91	91	87	86	75	88	92	84	82	87	92	90	79	76	90	89	76	74	..	83.5
	Minimum	53	48	48	57	59	53	57	64	60	60	62	63	68	71	65	64	65	68	76	65	64	68	64	72	67	66	64	73	59	53	..	62.5
Marshall	Maximum	70	75	78	80	80	79	83	86	84	85	85	80	87	89	85	82	80	86	..	91	81	86	89	91	89	81	89	90	90	78	..	[b]83.8
	Minimum	52	53	47	56	55	52	55	63	62	63	60	63	62	69	62	72	63	65	..	67	62	68	65	75	64	66	65	72	72	52	..	[a]62.1
Nevada	Maximum	65	76	78	82	88	83	85	88	82	81	83	88	90	87	83	82	83	90	89	83	81	85	86	88	83	83	93	91	83	75	..	83.8
	Minimum	53	52	52	60	76	69	62	68	62	62	69	66	74	65	63	66	68	70	70	65	65	62	62	74	71	72	69	71	61	54	..	65.1
Warrensburg	Maximum	68	73	80	82	88	74	87	87	84	80	86	79	90	92	85	85	80	89	92	84	82	86	90	91	84	79	90	91	79	75	..	83.7
	Minimum	48	46	48	54	62	52	52	64	59	62	64	67	68	68	64	64	65	69	75	65	65	67	63	74	67	66	63	62	58	53	..	61.8
Warsaw	Maximum	66	75	77	81	88	88	87	87	83	83	86	81	91	92	82	84	82	89	92	87	82	85	88	90	86	79	91	89	78	74	..	84.1
	Minimum	54	48	49	58	58	68	60	66	68	62	67	67	73	69	66	64	67	69	77	70	65	68	64	75	67	65	60	78	61	54	..	64.6
Northwest Plateau.																																	
Chillicothe §§	Maximum	69	72	76	78	84	71	82	86	86	78	84	83	86	88	82	82	77	87	92	74	84	85	88	89	80	77	87	83	71	71	..	81.1
	Minimum	52	47	45	54	58	51	54	55	59	60	60	65	62	67	53	63	65	66	70	66	59	63	63	67	64	65	66	68	58	52	..	59.9
Grant City	Maximum	71	76	77	80	75	70	67	81	82	80	83	81	86	88	80	81	79	85	88	88	80	85	85	83	79	76	85	83	78	72	..	80 1
	Minimum	50	48	48	54	60	46	50	55	56	56	60	64	66	68	62	62	64	65	74	63	55	64	66	63	58	54	65	65	54	51	..	58.9
Kansas City	Maximum	68	74	78	79	84	72	86	86	77	78	86	77	86	90	83	85	76	90	95	77	79	84	86	90	79	75	90	85	73	74	..	81.4
	Minimum	52	55	55	57	64	56	58	70	57	63	66	65	69	72	65	68	64	70	77	62	62	71	63	69	67	63	63	73	58	57	..	63.3
Kidder §§	Maximum	71	77	78	81	85	75	82	85	78	78	85	79	88	89	82	80	80	86	92	71	81	85	86	87	80	77	86	84	70	75	..	81.1
	Minimum	50	48	47	50	55	50	51	51	56	56	59	62	62	68	64	62	64	63	67	64	57	62	62	65	63	64	65	65	56	51	..	58.6
Lexington §§	Maximum	69	77	79	81	81	72	84	87	84	79	85	81	86	88	85	80	77	87	94	74	79	85	87	89	83	78	87	88	75	75	..	81.9
	Minimum	53	51	50	56	61	54	57	64	60	62	61	64	69	71	65	65	66	68	67	67	63	69	64	72	67	69	66	67	59	56	..	62.8
Maryville	Maximum	71	75	79	82	77	72	68	83	76	78	84	79	86	87	82	82	75	86	85	73	81	85	85	84	77	77	86	83	75	74	..	79.6
	Minimum	41	49	48	54	61	46	50	56	54	55	60	61	67	69	63	63	63	65	72	63	55	68	59	63	58	65	67	65	53	50	..	58.8
Oregon	Maximum	69	75	77	78	83	71	76	83	74	77	83	78	86	89	80	84	77	88	88	77	81	85	86	77	77	86	84	73	72	71	..	79.5
	Minimum	50	50	50	53	62	50	52	60	55	57	60	59	66	70	63	63	63	66	76	62	57	60	64	61	66	66	69	55	53	52	..	59.7
St. Joseph	Maximum	68	73	78	80	81	74	85	88	78	80	85	81	88	91	84	85	78	90	89	75	82	86	88	85	81	76	88	83	70	73	..	81.4
	Minimum	52	53	50	57	59	54	55	60	56	60	62	63	69	73	65	66	63	68	75	62	58	64	63	67	63	68	67	70	57	55	..	61.8
Trenton	Maximum	65	70	72	75	76	69	72	81	80	75	80	77	82	84	78	78	75	83	89	81	79	83	83	81	84	74	83	85	75	69	..	78.0
	Minimum	52	52	51	54	59	50	52	59	60	58	60	65	68	68	65	64	65	66	74	65	58	68	66	65	64	67	68	70	60	59	..	61.7

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

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CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVIII. COLUMBIA, MO., JULY, 1924. No. 7.

GENERAL SUMMARY.

Persistently and uniformly low temperatures for the season, much cloudiness and rain, and a few rather severe local storms were the more outstanding features of July, 1924. As compared with other years only a few Julys have been as cool as the current month, namely, in 1915, 1905, and 1891.

The rainfall was above the normal, but the month was not as wet as several other Julys in the past, though it was more uniformly distributed this July. While some rain fell in some parts of the State nearly every day the heaviest and most continuous fell mainly during the second decade. There were some large amounts in all sections, but especially in the western parts of the Ozarks, southeastern lowlands, and southwestern plain.

Harvesting and threshing wheat, hay making, and other farming operations were hindered by showers. Corn did well but was about two weeks backward. not because of the July rains, but because of the wet June and May.

TEMPERATURE.

The mean temperature for the State, as determined from the records of 65 stations, was 73.3°, or about 4.1° lower than the 36-year normal. It was the coolest July since 1905, and only one other July (1891) since the beginning of State records in 1889 was as cool as the current month. The deficiency was noticeable in all sections but somewhat less so in the Ozarks and southeastern lowlands. Except about five or six days in the last half of the month, the temperature was continuously below the normal. Early morning temperatures on the 1st, 3d, 4th, and 5th varied between 40° and 45°. The minimum, 40°, has been recorded only once before this in July, in 1891. Afternoon warmth on the 16th, 23d, and 24th, approximated full summer value in most parts; a maximum of 103° occurred at Caruthersville, on the 24th.

PRECIPITATION.

The precipitation for the State as a whole, 104 stations reporting, was 5.39 inches, or 1.34 inches more than the 56 years' average. There was excess moisture everywhere, but the wetness was much more marked in the Ozark Plateau and southwestern plain than in other parts. Rain in more or less appreciable amounts fell in some parts of the State on almost every day, though there was less rainy weather in the northwestern plateau. The heaviest and most continuous rainy spell probably continued from about the 9th to the 22d. The greatest local monthly fall was 14.52 inches, at New Madrid; and the greatest 24-hour amount, 7.14 inches, fell at the same station, on the 19th. The next heaviest falls within a period of 24 consecutive hours, were 5.16 inches and 5.20 inches, at Lockwood and Lamar, respectively.

WIND.

The prevailing winds were from the south. The average movement based on records of 8 well placed stations equipped with anemometers was 5,098, 6.9 miles per hour or about 6 per cent less than normal. There were some local high winds on the 16th, and 17th.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine for the State, based upon the records of 6 stations equipped with sunshine recorders, was 318, 70 per cent of the possible and very nearly normal. The current month had about 6 per cent less sunshine than July, 1923.

MISCELLANEOUS PHENOMENA.

Hail.---At Arcadia, 5th; Louisiana, 6th; Appleton City, 13th; St. Joseph, 16th, and St. Louis, 17th. No damage reported.

Halos, solar.---4th, 11th, 17th, 18th, 19th, 20th, 27th, and 28th.

Halos, lunar.---10th, and 11th.

Thunderstorms.---Local, 1st, 2d, 3d, 11th, 13th, 14th 20th, 28th, and 29th. General 12th, 16th, 17th, 19th, 21st, 22d, 30th, and 31st.

SPECIAL STORM NOTES.

July 12.---Thunderstorm, attended by high wind and excessive rainfall, occurred at Lamar, Mo., beginning about 4 p. m. of the 11th and ending after midnight; 5.20 inches of water fell, and considerable damage was done to crops, probably several thousand dollars.

July 14.---At Appleton City a thunderstorm, attended by heavy rain, high wind, and some small hail, occurred the night of the 13-14th. There was some relatively small damage to fruit and shade trees, and electric wire systems.

July 16-17th.---A severe electric storm with strong squalls and heavy rainfall swept across the State from southwest to northeast, beginning in the southwest about Sedalia at or before 11 p. m. and crossing the Mississippi River at St. Louis at about 1:45 to 3 a. m. At Columbia the wind reached a velocity of 50 miles an hour just before midnight, while a 63 mile gale blew at St. Louis later. Damage to trees, and the telegraph and telephone systems in Columbia, about $5,000; at Fulton, including roofs, plate glass, etc, $10,000, and about the same amount at Jefferson City; at Wellsville homes, barns, and crops were damaged, estimated at about $15,000. At St. Louis 13 houses were set on fire by lightning. The Bell Telephone Company was damaged to the amount of $85,000. Some parks were seriously damaged. Total loss heavy but not given.

From midnight of the 18th to 3:30 a. m. of the 19th, 7.14 inches of rain fell at New Madrid. There was considerable damage but no estimate given.

July 24.---A severe windstorm swept over the town of Martinsburg, Mo., about 11:40 p. m. The storm's path was about two miles wide. Several barns were blown over; trees, telephone, and telegraph poles blown down; and two cows were killed. Damaged to the amount of several thousand dollars.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
								Max. velocity.		
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Miles per hour.	Direction.	Date.
Columbia	30.00	86	65	306	68	4,286	5.8	50	nw.	16
Hannibal	30.01	80	..	...	..	4,850	6.5	27	sw.	9
Kansas City	29.98	77	59	364	80	5,976	8.0	58	n.	16
St. Joseph	29.98	81	57	347	76	4,735	6.4	43	ne.	17
St. Louis	30.01	75	55	260	57	6,923	9.3	54	sw.	17
Springfield	30 02	80	65	307	69	5,929	8.0	35	nw.	14
Cairo, Ill	30.00	81	65	...	..	4,207	5.7	33	nw.	17
Keokuk, Iowa	30.02	77	59	322	71	3,879	5.2	25	nw.	24

COMPARATIVE DATA FOR JULY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	79.3	+2.3	111	50	3.31	−0.98	......	0	7	....	....	....
1889	77.1	+0.1	107	46	3.75	−0.54	......	0	8	....	....	....
1890	79.6	+2.6	106	52	2.98	−1.31	......	0	5	....	....	....
1891	72.7	−4.3	103	40	3.55	−0.74	......	0	8	....	....	....
1892	75.8	−1.2	101	45	4.99	+0.70	4.75	0	8	12	10	9
1893	77.3	+0.3	101	51	4.91	+0.62	6.44	0	8	14	12	5
1894	76.5	−0.5	109	42	2.48	−1.81	4.90	0	5	18	10	3
1895	74.4	−2.6	106	45	6.79	+2.50	6.52	0	10	10	12	9
1896	77.3	+0.3	108	48	5.87	+1.58	8.00	0	9	15	11	5
1897	78.7	+1.7	106	48	3.22	−1.07	4.05	0	6	19	9	3
1898	76.1	−0.9	104	42	5.58	+1.29	8.15	0	9	16	10	5
1899	76.0	−1.0	102	43	4.51	+0.22	4.48	0	9	15	11	5
1900	76.9	−0.1	102	46	4.11	−0.18	7.03	0	8	17	10	4
1901	85.4	+8.4	116	46	2.02	−2.27	3.78	0	5	19	10	2
1902	77.0	0.0	103	50	4.59	+0.30	5.30	0	8	17	11	3
1903	77.4	+0.4	102	51	3.22	−1.07	3.26	0	8	17	10	4
1904	74.2	−2.8	100	47	4.65	+0.36	4.15	0	10	15	11	5
1905	73.4	−3.6	101	48	7.45	+3.16	7.60	0	12	12	10	9
1906	74.7	−2.3	100	48	3.53	+0 76	4.46	0	8	17	10	4
1907	78.4	+1.4	105	47	4.57	+0.28	6.70	0	8	19	8	4
1908	76.5	−0.5	101	49	2.23	−2.06	2.65	0	8	18	9	4
1909	76.7	−0.3	102	41	6.41	+2.12	10.71	0	10	17	8	6
1910	76.8	−0.2	109	46	6.70	+2.41	5.80	0	9	16	9	6
1911	78.0	+1.0	113	43	3.95	−0.34	4.20	0	8	16	9	6
1912	78.8	+1.8	104	52	2.74	−1.55	3.17	0	7	18	9	4
1913	80.2	+3.2	108	47	3.13	−1.16	3.62	0	7	18	9	4
1914	80.5	+3.7	109	45	2.67	−1.66	4.45	0	7	17	9	5
1915	74.6	−2.4	102	42	6.05	+1.59	6.77	0	12	14	9	8
1916	81 6	+4.6	109	52	1.25	−3.15	2.55	0	3	25	5	1
1917	77.5	+0.2	107	42	2.96	−1.22	3.40	0	8	20	8	3
1918	77.1	+0.2	110	41	1.76	−2.49	3.75	0	6	19	8	4
1919	80.0	+2.3	115	50	2.33	−1.37	4.55	0	5	23	6	2
1920	76.3	−0.9	105	47	3 25	−0.84	3.84	0	7	18	8	5
1921	80.3	+2.9	109	46	2.32	−1.77	2.25	0	5	20	8	3
1922	76.8	−0.7	103	46	5.85	+1.82	12.25	0	8	17	9	5
1923	78.2	+0.7	105	50	3.07	−0.89	7.42	0	6	18	8	5
1924	73.3	−4.1	103	40	5.39	+1.34	7.14	0	10	15	11	5
....	......	......	.....	......	......	....	......	....	....	....	....	....

Climatological Data for July, 1924.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	45	74.3	− 1.4	95	16	50	3	32	6.88	+2.24	1.71	0	13	19	0	12	se.	O. K. Benecke
Clifton Hill	Randolph	731	25	72.4	− 4.0	93	12	49	1†	32	5.19	+1.31	1.30	0	12	16	10	5	......	Dr. A. J. Bradsher
Columbia	Boone	748	34	72.2	− 4.7	92	21	50	4	28	5,70	+2.05	2.58	0	15	13	11	7	s.	U. S. Weather Bureau
Downing	Schuyler	878	3	71.4	......	93	16†	49	2	38	3.99	−0.94	1.20	0	9	16	13	2	w.	E. E. St. Clair
Fayette	Howard	661	44	72.2	− 5.2	94	23	48	3†	31	3.23	−0.42	0.91	0	11	..	..	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	36	72.5	− 5.4	92	21	48	3	28	3.62	−0.37	0.88	0	13	14	14	3	sw.	Westminster College
Gorin	Scotland	700	37	....	......	..	..	..	..	..	3.27	−0.76	1.25	0	8	12	10	9	sw.	J. W. Pulliam
Hannibal	Marion	534	32	72.6	− 4.2	93	16	50	4	29	2.23	−1.52	0.85	0	13	12	11	8	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	36	73.6	− 4.5	93	16	52	4†	29	4.41	+0.39	1.70	0	9	21	8	2	s.	Miss Emma Swift
Kirksville	Adair	969	35	71.1	− 5.0	92	16	48	1	38	2.14	−2.31	0.68	0	10	16	9	6	s.	Prof. J. S. Stokes
Louisiana	Pike	469	30	72.8	− 3.6	102	16	45	5	42	4.65	+1.53	2.20	0	11	27	2	2	w.	J. T. Farrell
Macon	Macon	875	25	72.6	− 4.8	95	16	49	1†	32	3.18	−0.58	1.55	0	12	17	9	5	se.	W. C. Brown
Mexico	Audrain	800	35	72.5	− 4.8	94	21†	48	4	31	3.29	−0.46	0.83	0	10	23	3	5	s.	Mrs. Abbie Snoddy
Palmyra	Marion	652	25	....	......	..	..	..	..	..	....	......	....	0	..	..	..	..	......	Highway Department
St. Catharine	Linn	800	13	72.2	− 3.9	89	16†	49	2	28	3.76	−0.81	0.88	0	13	9	20	2	n.	L. D. Baker
St. Charles	St. Charles	456	36	73.4	− 4.7	91	16†	51	5	31	4.22	+0.99	1.10	0	10	12	9	10	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	50	75.0	− 3.6	93	21	55	3	22	3.62	+0.19	1.13	0	12	9	16	6	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	12	74.6	− 5.5	94	29	56	1†	21	3.16	+0.41	0.79	0	11	19	9	3	n.	St. Louis University
Shelbina	Shelby	779	31	....	......	..	..	..	..	..	3.18	−0.98	1.20	0	6	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	26	74.6	− 3.4	95	16	48	3	32	3.38	−1.05	0.83	0	7	10	17	4	e.	Frank Hall
Unionville	Putnam	1,062	31	71.8	− 4.8	95	16	46	2	33	4.25	−0.04	1.35	0	8	15	8	8	nw.	Geo. W. Davis
Warrenton	Warren	816	42	72.4	− 5.4	93	29	51	1†	29	5.05	+1.63	1.52	0	11	17	9	5	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	52	72.7	− 4.2	94	16	52	4	27	4.85	+0.82	1.53	0	12	11	14	6	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	72.8	− 4.4	102	16	45	5	42	3.97	+0.06	2.58	0	11	15	10	6	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	28	82.0	+ 1.4	103	24	57	2	35	2.48	−0.93	1.00	0	6	26	5	0	e.	H. E. Averill
Doniphan	Ripley	344	20	74.8	− 3.4	97	24	49	4	41	3.28	−1.45	0.83	0	7	10	18	3	w.	W.W. Martin
Jackson	Cape Girardeau	428	33	74.3	− 3.1	96	21	49	1†	35	5.73	+2.21	2.00	0	12	3	9	19	s.	John G. Putz
Marble Hill	Bollinger	470	29	73.6	− 3.7	94	24	49	1†	37	5.72	+1.04	2.00	0	10	18	12	1	w.	R.A. DeWitt
Parma	New Madrid	281	3	....	......	..	..	..	..	..	8.57	......	4.15	0	9	..	..	..	......	J.E. Pearce
Patton (near)	Bollinger	500	15	....	......	..	..	..	..	..	3.65	−0.09	1.10	0	8	..	..	..	.....	George F. Ellis.
Poplar Bluff††	Butler	339	20	75.2	− 3.5	97	22	50	3	35	4.92	+1.37	1.32	0	11	26	2	3	w.	J. H. Wolpers
Vanduser	Scott	304	23	....	......	..	..	..	..	..	5.62	+0.85	1.52	0	11	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	76.0	− 3.6	92	21	56	3	21	3.73	+0.28	0.69	0	11	12	12	7	n.	U. S. Weather Bureau
Section means and	extremes	....	..	76.1	− 2.5	103	24	49	1†	41	4.85	+0 27	4.15	0	9	14	11	6	w.	
Ozark Plateau.																				
Arcadia	Iron	926	43	70.1	− 5.8	88	30	45	4	33	5.92	+1.68	2.12	0	14	18	8	5	w.	Arcadia College
Birchtree	Shannon	1,000	29	73.2^a	− 3.2	93	24	50	1†	28	5.53	+1.54	1.78	0	11	15	9	7	s.	V. H. Kirkendall
Bolivar	Polk	1,071	30	74.1	− 3.0	95	16	50	3†	32	8.11	+4.36	2.20	0	9	14	10	7	w.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	25	....	......	..	..	..	..	..	7.31	+3.26	3.65	0	6	17^a	5^a	8^a	w.	H. E. Dean
Eldon	Miller	934	28	73.4	− 3.6	93	16	48	4	33	5.93	+2.27	1.52	0	11	6	18	7	sw.	E. H. Shepherd
Farmington	St. Francois	918	13	72.2	− 3.1	93	21	49	2†	32	5.06	+1.51	1.59	0	11	11	16	4	ne	Robert Forsyth
Gano ‡‡	Dent	1,250	20	72.5	− 4.4	94	23	49	4	31	6.79	+3.29	1.53	0	13	14	11	6	sw.	A. C. Leach
Goodland	Iron	1,000	30	71.5	− 4.1	94	24†	44	1†	36	6.44	+2.26	2.00	0	10	14	13	4	s.	F. M. Adams
Greenville	Wayne	381	2	73.8	......	94	24	46	4	34	7.01	......	2.04	0	7	20	9	2	s.	A. M. Rhodes
Hollister	Taney	735	37	72.7	− 6.7	96	23†	40	3†	46	7,20	+3.28	2.00	0	8	8	14	9	s.	Mrs. W. P. Chapmann
Koshkonong	Oregon	958	23	75.6	− 2.7	96	24	53	3†	28	3.16	−0.76	1.11	0	7	15	8	8	sw.	R. M. Hitt
Lebanon	Laclede	1,265	36	72.4	− 4.5	96	23	45	4	33	4.80	+0.68	1.29	0	9	19	5	7	s.	Thomas E. Mulcare
Lockwood	Dade	1,078	18	75.0	− 2.6	93	13†	50	3†	35	10.72	+5.85	5.16	0	9	19	2	10	sw.	C. S. Crow
Mountain Grove	Wright	1,463	23	72.8	− 3.2	94	24	47	4	31	6.94	+2.94	1.91	0	15	14	14	3	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	36	74.2	− 3.4	94	16†	45	3	33	7 80	+3.62	3 85	0	7	20	9	2	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	24	74.9	− 2.5	96	16†	51	1†	33	5.65	+1.56	1.37	0	9	13	15	3	w.	Prof. Elmo G. Harris
Seligman	Barry	1,542	22	74.0^a	− 2.6	94	23	49	3	28	7.08	+2.68	2.70	0	7	19	9	3	s.	Floyd E. Fawver
Seymour	Webster	1,642	18	71.5	− 4.0	92	24	44	4	32	5.98	+1.17	2.43	0	11	16	13	2	s.	Ira H. Hailey
Springfield	Greene	1,350	36	73.2	− 3.4	91	16	53	3	23	5.92	+1.13	2.00	0	13	18	10	3	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	73.2	− 3.7	96	16†	40	3†	46	6.49	+2.35	5.16	0	10	15	11	5	s.	
Southwest Plain.																				
Appleton City	St. Clair	853	30	74.3	− 4.0	94	16	53	3	26	8.99	+4.36	3.45	0	12	13	16	2	ne.	W. G. Bigelow
Clinton	Henry	765	31	77.0	− 0.5	98	16	52	3	33	7.74	+3.80	2.00	0	13	16	13	2	se.	A. E. Derwent, M. D
Harrisonville	Cass	904	47	72.8	− 5.0	95	16	50	1	30	4.50	+0.72	1.18	0	11	9	1	21	s.	John H. Patterson
Lamar	Barton	980	37	74.3	− 4.2	94	16†	50	3†	31	8.75	+4.51	5.20	0	9	14	11	6	ne.	Jesse A. Mann
Lamonte	Pettis	867	23	74.0	− 5.5	96	16	49	4	34	4.72	+0.72	1.18	0	12	13	14	4	se.	J. E. Wheeler
Marshall	Saline	779	35	73.2	− 4.1	93	16	49	4	32	4.78	+0.82	1.20	0	11	13	13	5	ne.	Dr. W. H. Black
Nevada	Vernon	862	31	73 6	− 6.6	93	16	49	3	28	7.52	+3.59	3.78	0	10	18	7	6	s.	George A. Kaupp
Warrensburg	Johnson	878	37	74.0	− 4 8	96	16	49	1†	36	7.95	+4.00	1.74	0	13	14	14	3	e.	E. A. Markey.
Warsaw	Benton	687	24	73.6	− 4.7	94	16	48	4	32	7.42	+3.12	2.35	0	10	12	13	6	e.	Everett Martin
Section means and	extremes	.....	..	74.1	− 4.4	98	16	48	4	36	6.93	+2.95	5.20	0	11	14	11	6	ne.	
Northwest Plateau.																				
Avalon	Livingston	730	34	72.8	− 6.3	93	16	50	2	28	5.09	+0.98	1.50	0	8	14	14	3	sw.	F. G. Ashbaugh
Bethany	Harrison	916	32	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	Owen Ross
Chillicothe	Livingston	779	15	71.6	− 8.6	93	16	49	2†	32	5.02	+0.44	1.50	0	15	20	9	2	ne.	Wm. J. Olenhouse
Conception	Nodaway	980	35	73.3	− 3.1	94	16	49	2	30	5 44	+1.14	2.14	0	11	15	14	2	sw	Fr. Adelhelm Hess
Edgerton	Platte	856	4	72.8^b	......	98	16	46	1†	35	3.33	−1.47	0.91	0	12	27^a	2^a	1^a	s.	Fred L. Stiff
Grant City	Worth	1,134	20	72.3	− 3.9	92	16	48	1†	30	4.72	−0.44	1.50	0	6	14	15	2	s.	B. F. Locke
Kansas City	Jackson	963	35	74.6	− 3.5	97	16	53	2	33	3.41	−1.43	1.54	0	15	12	15	4	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	31	71.8	− 5.1	94	16	47	2	32	4.67	+0.74	2.03	0	15	17	8	6	se.	Linn Terry
Lexington	Lafayette	688	39	73.6	− 3.5	95	16	50	3	32	8.29	+3.57	2.45	0	12	14	14	3	s	Edwin G. Loomis
Liberty	Clay	859	34	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	....	....
Maryville	Nodaway	1,169	34	72 1	− 3.5	93	16	47	2†	32	5 15	−0.24	2.33	0	8	18	7	6	s.	J. R. Brink
Oregon	Holt	1,048	68	72.2	− 3.4	91	16	49	1	28	3 31	−1.01	1.12	0	11	15	13	3	ne	Tom Curry
St. Joseph	Buchanan	967	16	73.8	− 5.4	98	16	50	3	32	4.44	+1.51	2.27	0	12	20	8	3	se.	U. S. Weather Bureau
Tarkio	Atchison	916	21	72.1	− 4.9	99	23	47	2†	36	5.34	+1.63	1.93	0	10	17	9	5	se.	Albert Volker
Trenton	Grundy	822	28	71.3	− 5.6	87	28†	50	2	24	5.54	+1.21	1.68	0	11	18	11	2	ne.	W. H. Estes
Section means and	extremes	.....	..	72.6	− 4.7	99	23	46	1†	36	4.90	+0.51	2.45	0	11	17	11	3	s.	
State means and	extremes	.....	..	73.3	− 4.1	103	24	40	3†	46	5.39	+1.34	5.20	0	10	15	11	5	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for July, 1924.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville||	Missouri	....	....	....	....	....	....	....	.04	.62	....	....	.10	....	.35	....	1.80	1.10	....	.55	.13	.13	.55	....	....	....	....	....	....	....	.12	....	5.49
Brunswick||	Grand	....	.15	....	....	....	....	....	.02	.25	....	....	.15	....	.60	....	.28	1.71	....	1.28	1.16	.05	.90	....	....	.15	....	....	....	....	.18	....	6.88
Clifton Hill	Chariton	.08	.03	....	....	....	....	....	....	.29	....	....	....	T.	.06	....	.21	1.30	.55	1.22	T.	....	1.02	....	.08	....	....	T.	T.	.08	.27	....	5.19
Columbia***	Missouri	.01	....	....	....	....	T.	....	.01	.35	....	T.	.14	.21	.31	....	2.30	.42	.13	.21	.12	.78	.03	....	T.	....	....	....	....	.01	.67	T.	5.70
Downing	Mississippi	.20	....	....	....	....	....	....	....	1.08	....	....	....	....	....	....	....	.75	....	1.20	....	....	.18	....	.41	....	....	.12	.02	....	.03	....	3.99
Fayette|||	Missouri	.04	....	....	....	....	....	....	.02	....	....	....	.04	....	.31	....	.27	.91	.57	.24	....	.52	....	....	....	....	....	.01	....	....	.30	....	3.23
Fulton	do	....	.05	....	....	....	....	....	.03	.42	....	.03	.05	....	.50	....	.05	.50	.15	....	.10	....	.88	....	.11	....	....	....	....	....	.75	....	3.62
Gorin	Mississippi	....	....	....	....	....	....	....	....	.55	....	....	.07	.07	....	....	....	.40	....	1.25	....	....	....	....	.72	....	....	....	.17	.04	....	....	3.27
Hannibal***	do	T.	.16	.01	....	....	....	T.	.03	.29	....	....	.20	T.	....	....	.02	.15	.01	.84	....	.11	.04	....	T.	....	....	T.	.01	T.	.36	....	2.23
Hermann||	Missouri	....	.02	.73	....	....	....	....	....	....	.24	....	.08	1.10	.60	....	.40	.65	.03	.45	.10	.60	.45	....	....	.06	....	....	.08	....	.20	.33	6.12
Jefferson City||	do	....	....	....	....	....	....	....	....	.60	.20	....	....	....	1.70	....	.40	.42	....	.45	.11	....	.17	....	....	....	....	....	....	....	.36	....	4.41
Kirksville	Mississippi	....	....	....	....	....	....	....	....	.68	....	....	.22	.14	....	....	.07	.14	....	.42	....	....	.05	....	.18	....	....	.04	....	.20	....	....	2.14
Louisiana	do	....	....	.02	....	....	.02	.08	T.	....	T.	....	....	.20	....	T.	....	.22	....	2.20	.40	.20	.40	....	.06	....	....	T.	....	....	.85	....	4.65
Macon ||	Chariton	....	....	....	.07	....	....	....	....	.10	.26	....	.07	....	....	....	.07	1.55	....	.54	.15	....	.13	....	....	.11	....	....	.03	....	.10	....	3.18
Mexico ||	Mississippi	....	....	....	....	....	....	....	....	.14	T.	T.	....	.14	.23	....	.02	.83	....	.45	.42	.01	.65	....	T.	....	....	....	....	....	.40	....	3.29
Milan ||	Grand	....	.05	....	....	....	....	....	....	.18	.02	....	.25	....	....	....	.03	.30	....	.60	.90	....	.48	....	....	.10	....	....	....	....	.05	....	2.96
Pacific||	Meramec	....	....	.03	....	....	....	....	....	....	.10	....	.23	.15	.80	....	.52	.48	T.	.42	.80	.03	.08	....	....	.02	....	....	....	....	.23	.25	4.14
Palmyra||	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
St. Catharine	Grand	.12	T.	T.	....	T.	....	....	....	.50	....	....	.88	.07	.03	....	.23	.66	.12	.20	....	.14	....	....	.37	....	....	....	....	.11	.33	....	3.76
St. Charles	Missouri	....	.09	....	T.	....	....	....	....	.03	....	....	.36	T	.86	....	.05	1.10	T.	.91	.03	T.	.30	....	T.	....	....	....	....	....	.49	....	4.22
St. Louis (1)***	Mississippi	....	.04	T.	....	....	....	....	....	.02	....	....	1.13	T.	.80	....	.06	.46	.09	.43	.09	.05	.02	....	T.	....	....	....	....	....	.43	....	3.62
St. Louis (2)	do	....	.03	T.	....	....	....	....	....	.02	....	....	.45	T.	.56	....	.07	.60	.06	.36	.16	.06	T	....	T.	....	....	....	....	....	.79	....	3.16
Shelbina |||	do	....	....	....	....	....	....	....	....	.30	....	....	....	....	....	....	....	.45	....	.40	.55	....	1.20	....	....	....	....	....	....	....	.28	....	3.18
Steffenville	do	....	....	....	....	....	....	.83	....	.25	....	T.	.65	T.	....	....	....	.18	T.	.55	....	....	.30	....	.62	....	....	....	T.	T.	....	....	3.38
Union|||	Meramec	....	....	.08	....	....	....	....	....	....	.15	....	.16	.10	.50	....	.72	.48	....	.92	.91	.07	.25	....	....	.07	....	....	....	....	.15	.30	4.86
Unionville	Chariton	....	T.	T.	....	....	....	....	....	1.35	....	....	T.	T.	.10	....	.20	.40	T.	.80	....	....	.70	....	.20	....	....	T.	....	.50	....	....	4.25
Valley Park|||	Meramec	....	....	T.	....	....	....	....	....	....	.09	....	.40	.22	.92	....	....	.77	....	.38	.25	.01	.02	....	....	....	....	....	....	....	.11	.14	3.31
Warrenton	Mississippi	....	....	....	....	....	....	....	T.	.11	....	....	1.15	....	1.52	....	.04	1.08	.19	.36	.23	.04	.03	....	....	....	....	....	T.	....	.30	....	5.05
Keokuk, Ia.***	do	.02	....	T.	....	....	....	.13	....	.33	....	T.	.15	T.	....	....	T.	.87	....	.69	....	1.52	.01	....	.96	....	....	.08	.02	T.	.07	....	4.85
Southeast Lowlands																																	
Cape Girardeau||	Mississippi	....	....	....	....	....	....	....	....	....	.12	....	.01	1.72	.40	....	....	.35	....	.45	.15	....	....	.11	....	.48	....	....	....	....	.01	.16	3.96
Caruthersville	do	....	T.	T.	....	....	T.	....	....	T.	.55	....	1.00	....	.08	....	T	T.	.10	T.	....	....	T.	.65	....	.10	....	....	....	....	T.	....	2.48
Doniphan	Black	....	T.	T.	....	....	....	....	....	T.	....	....	.46	....	.67	....	.15	....	.34	....	....	....	.45	....	.83	....	....	....	....	....	.38	....	3.28
Jackson	Mississippi	....	....	....	....	....	....	....	....	....	.14	....	1.62	.14	.32	....	.40	.16	.11	.34	....	....	.04	.20	.26	....	....	....	....	....	....	2.00	5.73
Leeper ||	Black	....	....	....	....	....	....	....	....	....	....	....	1.95	....	.50	....	.30	.24	....	.85	....	....	....	.10	....	1.07	....	....	....	....	1.30	....	6.31
Marble Hill	Mississippi	....	....	....	....	....	....	....	....	.16	....	....	2.00	....	1.05	....	.43	.28	.38	.50	....	....	....	....	.52	....	....	....	....	....	.10	.30	5.72
New Madrid|||	do	....	....	....	....	....	....	....	....	....	1.00	....	.03	.54	.94	.01	....	....	.01	7.14	2.04	....	....	1.45	....	.74	....	....	....	....	....	.62	14.52
Parma	St. Francis	....	....	....	....	....	....	....	....	....	.20	....	.80	....	.97	....	.18	....	....	4.15	.93	....	....	65	....	.48	....	....	....	....	.21	....	8.57
Patton (near)	Mississippi	....	....	....	....	....	....	....	....	....	....	....	1.10	....	.80	....	.30	.10	.05	.20	....	....	....	....	.40	....	....	....	....	....	.70	....	3.65
Poplar Bluff	Black	....	....	T.	....	.27	....	....	....	.10	....	....	.27	.24	.15	....	.21	....	1.32	....	....	....	.87	....	.66	....	....	....	....	.03	.80	....	4.92
Vanduser	Mississippi	....	....	....	....	....	....	....	....	....	.27	....	....	.18	1.52	....	....	.70	.15	1.10	.08	....	....	.12	.99	.04	....	....	....	....	.52	....	5.62
Cairo, Ill.***	do	....	....	....	....	T.	....	T	....	.26	....	....	.52	....	.55	....	.15	.23	.17	.68	....	....	.35	....	.61	....	....	....	....	....	.14	.07	3.73
Ozark Plateau.																																	
Annapolis||	St. Francis	....	....	....	....	.55	....	....	....	....	....	....	1.11	....	.57	....	.37	....	.27	.14	....	....	.47	....	2.03	....	....	....	....	.47	....	....	5.98
Arcadia ||	do	....	....	.01	....	....	.17	....	....	....	.13	....	.27	.34	2.12	.04	.06	.50	....	.32	.24	.29	T.	....	....	1.06	....	....	....	....	.37	....	5.92
Birchtree	Black	....	.12	....	....	....	....	....	....	.10	....	....	1.78	....	.84	....	.22	.04	.30	....	....	....	1.15	....	.31	....	....	....	....	....	.45	.22	5.53
Bolivar||	Osage	....	....	....	....	....	....	....	....	....	....	.45	2.20	....	1.28	....	....	....	.18	.95	1.13	....	.07	....	....	....	....	....	....	....	.60	1.25	8.11
Dean	Neosho	....	....	....	....	....	....	....	....	....	.70	T.	3.65	....	....	....	....	1.65	.83	....	.22	....	T.	....	....	....	....	....	....	....	.26	....	7.31
De Soto|||	Mississippi	....	....	.05	....	....	....	....	....	.25	....	....	.43	....	1.23	....	.36	.42	.24	.89	.56	.14	.17	....	.31	....	....	....	T.	....	.31	....	5.36
Eldon	Missouri	....	....	....	....	....	....	....	....	.61	....	....	1.01	....	1.52	....	.41	.12	.02	.95	.11	....	....	....	....	....	....	....	....	.08	.50	.60	5.93
Farmington	St. Francis	....	.02	T.	....	....	.16	....	....	.18	....	....	.51	....	.34	....	.64	.16	.32	1.59	.02	....	....	....	1.12	....	....	....	....	....	....	T.	5.06
Fredericktown|||	do	....	....	T.	....	....	....	....	....	.04	....	....	....	.90	1.68	.63	....	.42	....	.47	....	.53	....	.07	....	.28	1.35	.95	.42	.16	.67	.02	8.59
Galena|||	White	....	....	....	....	....	....	....	....	....	.50	2.50	....	....	....	....	....	....	1.60	1.40	.25	....	1.05	....	....	.50	....	....	....	....	....	.35	8.15
Gano	Meramec	....	.13	....	....	....	....	....	....	.45	....	....	.66	....	1.53	....	.34	.20	.42	1.36	.30	....	.15	....	.45	....	....	....	....	....	.15	.65	6.79
Goodland	Black	....	....	....	....	....	....	....	....	.25	....	....	.46	....	2.00	....	....	.44	.98	.15	.40	....	....	....	.52	....	....	....	....	....	.44	.80	6.44
Greenville	St. Francis	....	....	....	....	....	....	....	....	....	....	....	2.04	....	1.35	....	.37	....	.10	1.05	....	....	....	....	.75	....	....	....	....	....	1.35	....	7.01
Hollister	White	....	....	....	....	....	....	....	....	.10	....	1.40	.40	1.10	....	....	....	....	2.00	1.00	....	....	....	....	....	....	....	....	....	....	1.10	.10	7.20
Jerome ||	Gasconade	....	....	....	T.	....	....	....	....	....	.62	....	.60	....	1.10	.40	T.	....	1.00	1.95	T	T.	....	....	....	....	....	....	....	....	.50	....	6.17
Koshkonong	Black	....	....	.23	....	....	....	....	....	.08	....	....	.61	....	88	....	....	....	.13	....	.12	....	....	....	....	1.11	....	....	....	....	....	....	3.16
Lebanon ||	Osage	....	....	....	....	....	....	....	....	T.	1.29	....	.89	.02	.80	....	....	....	.14	....	1.10	.04	T.	....	....	....	....	....	....	....	.17	.35	4.80
Lockwood	do	....	....	....	....	....	....	....	....	.85	....	....	5.16	....	2.20	....	....	.76	....	.24	.80	....	.20	....	....	....	....	....	....	T.	.35	.16	10.72
Mineral Point|||	Meramec	....	....	....	....	....	....	....	....	....	....	....	....	....	.10	.50	....	.20	....	.40	.50	....	....	....	....	....	....	....	....	....	....	....	1.70
Mountain Grove||	White	....	....	....	....	.13	....	....	T.	.18	....	.12	1.08	....	1.91	....	.15	.16	.11	1.15	.32	....	.55	....	.21	.14	....	....	....	....	.15	.58	6.94
Neosho	Neosho	....	....	....	....	T.	....	....	T.	.62	....	....	3.85	....	.16	....	....	T.	.73	....	.84	....	....	....	....	....	....	....	....	....	.20	1.40	7.80
Rolla	Meramec	T.	....	....	....	T.	....	....	....	.42	....	.60	....	1.37	....	.21	.44	....	1.10	1.04	....	.04	....	....	T.	....	....	....	....	....	.43	....	5.65
Seligman	Neosho	....	....	....	....	....	....	....	....	....	....	....	2.70	....	T.	....	....	....	1.67	....	.05	....	.26	....	....	.58	....	....	....	....	.04	1.78	7.08
Seymour	White	....	T.	....	....	T.	....	....	.03	.06	....	T.	2.43	....	1.58	....	.07	.12	.40	.20	.22	....	.07	....	....	....	....	....	....	....	.80	T.	5.98
Springfield***	do	....	....	....	....	....	....	....	T.	.05	....	.12	1.88	....	1.10	....	T.	.12	.13	.16	.33	.08	.67	....	....	....	....	....	....	.06	.62	.60	5.92
Steelville||	Meramec	....	....	T.	....	....	T.	....	....	....	.58	....	.57	....	1.02	....	....	.82	....	1.04	.64	....	....	....	....	....	....	....	....	....	....	....	4.67
Tuscumbia ||	Osage	....	....	T.	T.	....	....	....	T.	.27	.11	....	.87	.13	1.59	....	.49	.13	.01	....	.40	....	.01	.06	....	....	....	....	....	....	.60	.10	4.77
Willow Sprgs. ||| (near)	White	....	....	T.	....	....	....	....	....	....	.10	....	1.80	....	1.70	.40	T.	.14	.19	.18	.14	....	.22	.01	....	.57	....	....	....	....	.42	....	5.87
Southwest Plain.																																	
Appleton City	Osage	....	.02	....	....	....	....	....	T.	.66	....	.23	.97	....	3.45	....	....	.54	.02	.03	1.75	....	1.15	....	....	....	....	....	....	.12	.05	....	8.99
Clinton	do	....	.10	....	....	....	....	....	....	.80	....	.30	1.00	.05	2.00	....	.04	.45	....	.65	1.65	....	.40	....	....	....	....	....	....	.28	.02	....	7.74
Harrisonville||	do	....	.08	....	....	....	.20	....	....	.08	....	....	.32	....	.79	....	....	1.18	.07	.13	.82	....	.43	....	....	....	....	....	....	....	.40	....	4.50
Joplin*	Neosho	..	....	....	....	....	....	....	T.	.05	....	.08	3.46	....	.86	....	....	....	.30	.30	.07	.28	T.	....	....	....	....	....	....	.01	.07	.07	5.55
Lamar ||	do	....	....	....	....	....	....	....	T.	.27	....	....	5.20	....	1.70	.30	....	T.	....	.17	.74	.02	.27	....	....	....	....	....	....	....	.08	....	8.75
Lamonte	Missouri	.01	....	....	....	.03	....	....	....	.65	....	.04	.30	....	.58	....	.86	.50	....	1.18	.12	....	.28	....	....	....	....	T.	....	.17	....	....	4.72
Marshall	do	.18	....	....	....	T.	....	....	T.	.75	....	T.	.11	....	.29	....	1.20	1.10	.10	.40	.15	T.	.41	....	....	....	....	T.	....	.09	....	....	4.78
Nevada	Osage	....	....	....	....	....	....	....	....	.22	....	.18	3.78	....	1.50	....	....	.28	.31	.24	.52	....	.14	....	....	....	....	....	....	T.	.35	....	7.52
Osceola|||	do	....	.06	....	....	....	....	....	....	.52	....	....	1.07	....	2.65	....	....	.32	.06	.26	.66	....	.80	....	....	....	....	....	....	....	.18	....	6.58
Warrensburg	Missouri	.01	.07	....	....	....	....	....	T.	.47	....	.35	.31	....	1.43	....	1.74	....	.54	1.71	.54	....	.43	....	.02	....	....	T.	....	.33	....	....	7.95
Warsaw	Osage	T.	....	....	....	....	....	....	T.	1.05	....	....	1.40	....	2.35	....	T.	.37	T.	.73	.25	.10	.39	....	T.	....	....	....	....	.18	.60	....	7.42
Waverly ||	Missouri	....	.04	....	....	....	....	....	T.	.71	T.	....	.07	....	.57	....	.74	1.27	....	.12	.51	.09	.62	....	....	T.	....	....	T.	....	.11	....	4.85
Northwest Plateau.																																	
Albany|||	Grand	....	....	....	....	....	....	....	1.41	....	....	....	.59	.69	....	....	.47	2.94	....	.11	....	....	....	....	....	....	....	T.	T.	....	....	....	6.21
Avalon	do	.22	....	....	....	....	....	....	.55	....	....	....	....	.12	....	....	1.50	....	.60	.23	....	1.30	....	....	....	....	....	....	....	.57	....	....	5.09
Bethany	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Chillicothe |||	do	....	.10	....	....	....	.02	....	T.	.31	.50	....	.42	....	.12	....	.08	1.50	....	.42	.37	....	.64	....	.02	.11	....	....	.03	....	.38	....	5.02
Conception	Missouri	.03	....	....	....	....	....	....	....	1.48	....	T.	.75	.08	.06	....	.10	2.14	.13	.47	....	T.	....	....	.03	....	....	T.	....	.17	....	....	5.44
Edgerton	do	.04	T.	.02	....	....	....	....	....	.25	....	.15	....	....	.03	....	.78	.91	.44	.02	....	.48	....	....	....	....	....	.16	....	.05	....	....	3.33
Gallatin	Grand	....	....	....	....	....	....	....	....	.50	.40	....	.60	....	.10	....	.10	1.80	....	.70	.10	....	.65	....	....	T.	....	....	T.	....	.20	....	5.15
Grant City	do	....	....	....	....	....	....	....	....	1.11	....	T.	.27	T.	....	....	.37	1.05	T.	1.50	T.	.42	....	....	T.	....	....	T.	....	T.	T.	....	4.72
Kansas City***	Missouri	.04	T.	....	....	....	....	....	....	.23	....	.02	.14	.14	....	....	.27	1.44	.38	.24	.10	.09	....	....	.04	....	....	.06	....	.17	.05	....	3.41
Kidder ||	Grand	....	.04	....	....	....	....	....	....	.34	.16	....	.67	.02	.09	....	.09	2.03	....	.28	.07	....	.58	....	.03	.02	....	....	.08	....	.17	....	4.67
Lexington	Missouri	....	.05	....	....	....	....	....	....	.65	....	....	.18	.	1.04	....	2.15	.85	....	.15	2.45	.12	.50	....	....	....	....	....	.01	....	.14	....	8.29
Liberty	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Maryville	do	....	T.	....	....	....	....	....	....	.52	....	....	.59	....	....	....	.36	2.33	....	.39	.90	....	....	....	....	....	....	....	.04	.02	....	....	5.15
Oregon	do	.04	....	.04	....	....	....	....	....	1.12	....	....	.75	.05	....	....	.13	.41	..	.52	....	....	....	....	.05	....	....	.13	....	.07	....	....	3.31
St. Joseph***	do	.05	....	T.	....	....	....	....	T.	.31	....	.09	.24	.05	....	....	.41	1.98	.28	T.	....	.88	....	....	.05	....	....	.05	....	.05	....	....	4.44
Tarkio	do	.03	....	....	....	....	....	....	....	.94	....	....	.72	.10	....	....	....	1.93	.46	.97	....	.11	....	....	....	....	....	.05	....	.03	....	....	5.34
Trenton	Grand	T	T.	T.	....	....	....	....	....	.87	....	.73	....	.06	....	....	.70	1.68	.80	.22	....	.19	....	....	.05	....	....	T.	....	.13	.11	....	5.54

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch.
*** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for July, 1924.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§..........	Maximum ...	77	76	79	82	84	86	87	86	83	89	85	90	81	85	90	95	89	73	82	84	93	91	93	83	85	89	86	93	89	90	92	86.0
	Minimum ...	55	53	50	51	55	53	57	61	68	59	62	69	64	63	58	64	68	61	63	68	71	67	64	68	62	63	66	68	70	70	71	62.6
Columbia	Maximum...	74	71	73	76	79	81	83	84	80	83	81	84	82	81	83	89	81	70	84	84	92	84	89	86	81	85	86	90	90	84	88	82.5
	Minimum	50	54	51	50	52	53	56	67	64	58	62	69	65	62	59	63	64	60	65	66	69	66	62	66	60	61	67	69	71	69	70	61.9
Fayette.................	Maximum...	75	72	75	77	81	82	83	83	83	85	82	88	82	84	84	93	82	73	85	81	91	85	94	87	83	87	84	90	88	86	88	83.6
	Minimum ...	49	51	48	48	50	51	53	63	65	58	60	68	64	61	56	65	65	60	64	64	70	68	60	71	60	61	64	65	68	67	69	60.8
Hannibal	Maximum.,..	72	69	73	76	80	81	80	85	79	84	84	87	82	81	86	93	80	77	74	85	92	86	88	84	82	87	85	91	93	86	83	82.7
	Minimum ...	52	54	50	50	52	55	61	61	66	59	59	71	64	64	58	64	65	57	63	66	72	68	61	69	76	63	66	70	74	71	69	62.4
Jefferson City §§.......	Maximum ...	75	71	73	78	80	82	85	85	80	85	81	86	87	82	85	93	78	76	89	87	82	86	92	92	82	86	89	91	90	82	90	83.9
	Minimum ...	53	54	53	52	52	55	60	62	66	61	61	61	64	66	63	66	69	60	60	65	72	72	68	73	64	62	64	70	70	71	69	63.2
Kirksville	Maximum....	70	71	79	77	79	81	82	82	79	83	87	87	79	83	84	92	83	74	76	87	91	88	89	83	83	85	83	90	88	89	84	82.8
	Minimum ...	48	49	49	50	52	55	58	59	65	57	60	69	60	62	54	54	66	55	61	66	66	64	62	67	58	51	63	64	65	66	65	59.4
Louisiana	Maximum...	80	70	74	78	80	82	80	86	88	82	88	90	92	92	85	102	95	82	82	82	95	93	92	90	84	88	90	93	94	86	95	83.9
	Minimum ...	48	55	46	50	45	50	52	55	56	68	54	70	60	72	55	60	68	55	70	72	74	80	68	68	58	58	62	66	78	70	70	61.7
Macon§§................	Maximum ...	79	74	75	78	84	84	85	86	82	87	86	88	78	83	87	95	82	75	76	87	94	90	91	84	84	88	84	93	92	88	89	84.8
	Minimum ...	49	49	49	50	53	54	56	60	66	57	62	67	62	61	55	64	65	56	60	63	70	63	64	67	57	61	65	64	70	68	66	60.4
Mexico§§...............	Maximum ...	75	72	74	78	82	84	81	89	80	86	86	89	80	83	87	93	79	74	83	85	94	84	91	87	83	87	89	93	94	87	89	84.5
	Minimum ...	51	52	50	48	51	53	50	61	64	58	60	65	64	60	57	64	62	57	60	64	71	68	60	63	60	64	65	67	68	68	70	60.5
St. Catharine	Maximum ...	77	71	75	78	82	83	84	84	78	85	83	85	82	80	85	89	85	74	74	84	89	86	87	83	82	86	82	88	88	87	85	82.6
	Minimum ...	52	49	50	52	54	57	59	64	67	59	65	69	62	57	57	65	67	59	59	65	72	65	63	69	59	62	65	66	70	67	66	61.7
St. Louis(1)............	Maximum...	72	71	72	76	79	79	81	86	76	85	85	81	88	82	84	90	80	75	81	85	93	86	89	91	83	87	88	89	93	81	89	83.1
	Minimum ...	58	56	55	57	61	62	64	67	70	66	71	70	71	65	68	68	65	59	63	69	74	74	72	72	67	67	71	72	74	74	71	66.9
Unionville..............	Maximum ...	76	73	77	80	83	84	85	86	80	84	81	88	78	80	84	95	90	76	82	88	91	88	88	85	84	94	85	91	87	90	90	84.6
	Minimum ...	48	46	48	47	52	54	57	60	66	55	57	68	56	56	54	62	66	55	60	67	70	60	60	66	57	62	60	64	66	66	62	58.9
Warrenton..............	Maximum...	72	72	68	75	76	76	81	81	81	81	81	80	80	81	84	89	85	75	83	86	92	86	92	85	81	86	88	91	93	88	88	82.5
	Minimum ...	51	54	51	51	53	56	59	60	67	62	63	68	65	63	61	63	65	57	60	65	70	68	63	70	62	63	67	67	68	71	71	62.4
Southeast Lowlands.																																	
Caruthersville.........	Maximum ...	85	86	86	86	88	93	95	98	90	94	96	88	100	92	96	98	100	96	101	100	101	102	101	103	93	97	100	101	102	98	97	95.6
	Minimum ...	59	57	59	58	63	58	61	63	69	71	66	73	72	72	71	72	75	70	73	72	74	72	72	74	72	65	68	68	72	75	72	68.3
Doniphan	Maximum...	77	77	76	79	80	84	87	90	87	88	91	88	92	87	90	90	90	86	95	93	93	93	93	97	92	89	89	92	94	86	91	88 3
	Minimum ...	50	50	51	49	50	53	55	57	54	59	57	70	66	67	65	67	70	65	65	68	70	73	69	68	67	59	60	62	53	64	70	61.4
Jackson	Maximum...	77	75	77	79	80	84	88	90	90	88	90	87	92	89	87	86	86	81	85	90	96	91	91	94	83	88	89	94	93	91	93	87.2
	Minimum ...	49	49	52	51	52	52	54	55	67	58	58	68	65	65	68	65	68	62	64	63	72	64	70	65	65	53	62	63	64	70	70	61.4
Poplar Bluff...........	Maximum...	67	67	75	76	83	83	86	90	85	90	92	85	95	88	91	88	92	78	96	92	96	97	95	96	88	91	92	95	95	88	93	87.9
	Minimum ...	51	52	50	54	53	56	56	61	61	58	71	61	66	65	65	71	66	61	61	68	68	69	68	66	69	67	59	64	70	60	70	62.5
Cairo, Ill.	Maximum...	73	73	75	77	78	82	84	86	82	85	88	81	90	80	85	84	85	74	86	90	92	92	90	90	82	85	87	89	91	88	90	84.3
	Minimum ...	59	58	56	58	62	62	65	66	72	68	67	72	70	68	70	69	69	67	67	71	76	72	72	70	70	66	70	71	72	74	73	67.8
Ozark Plateau.																																	
Arcadia§§.	Maximum ...	72	69	72	74	77	79	82	85	78	84	86	82	86	80	84	87	81	87	81	85	87	84	85	87	72	82	81	84	86	88	86	81.7
	Minimum ...	46	47	49	45	47	48	49	53	62	53	54	62	62	64	59	62	65	61	61	67	66	71	65	64	60	55	59	60	62	67	70	58.5
Birchtree...............	Maximum ...	72	71	70	75	78	80	81	83	80	85	..	88	89	82	85	87	87	74	89	90	89	89	90	93	83	85	84	88	89	82	88	ª83.5
	Minimum ...	50	51	50	52	50	53	56	61	68	60	..	78	67	66	64	64	67	64	64	66	71	70	69	69	63	60	62	64	66	70	69	ª62.8
Eldon	Maximum...	78	75	76	79	81	83	85	85	83	88	86	89	90	83	92	93	79	75	90	85	90	87	91	90	84	85	88	92	88	82	89	85.2
	Minimum ...	53	52	58	48	51	51	62	64	58	57	59	67	66	61	64	67	65	62	57	66	72	69	63	68	59	59	61	64	68	68	68	61.5
Farmington...........	Maximum...	71	72	71	75	80	82	81	86	74	86	86	85	90	80	86	88	85	77	82	90	93	86	86	90	85	86	88	90	92	84	92	83.8
	Minimum ...	51	49	49	49	50	54	54	56	68	56	59	69	65	64	61	64	65	58	59	66	61	70	67	65	61	58	62	63	63	69	70	60.5
Hollister	Maximum...	75	76	70	70	80	78	80	91	82	80	90	86	95	90	88	92	95	82	94	90	92	94	96	96	88	88	90	90	93	92	85	86.7
	Minimum ...	45	48	40	42	42	40	42	45	60	61	55	65	68	66	60	61	65	68	70	60	66	70	70	71	65	66	55	68	60	60	66	58.7
Koshkonong	Maximum...	75	75	74	77	79	81	84	88	80	85	90	82	92	89	89	89	88	80	92	89	92	93	94	96	82	86	88	91	93	85	90	86.1
	Minimum ...	54	55	53	53	57	57	60	64	68	62	62	69	70	67	67	71	70	67	68	70	71	71	68	73	66	64	64	64	67	73	73	65.1
Lebanon§§	Maximum ...	75	75	74	77	79	81	83	83	82	87	86	85	92	80	87	93	86	78	90	85	89	87	96	92	84	87	88	92	86	79	91	84.8
	Minimum ...	46	50	46	45	46	49	52	56	66	56	59	65	65	62	59	61	65	65	68	68	68	69	67	67	58	56	60	66	66	69	69	60.1
Mountain Grove§§	Maximum...	74	75	75	76	78	77	82	80	81	86	83	84	92	82	88	90	89	79	91	82	87	92	93	94	81	87	84	87	87	81	87	84.0
	Minimum ...	48	48	48	47	50	49	54	63	66	55	62	66	65	64	60	64	67	65	65	68	70	68	68	72	61	57	63	65	67	70	70	61.5
Neosho.................	Maximum ...	76	73	74	74	81	81	84	86	86	86	85	86	93	93	90	94	93	83	89	85	89	89	94	94	92	86	87	91	91	86	86	86.4
	Minimum ...	49	48	45	49	46	48	51	62	65	53	61	66	65	68	62	73	72	68	70	69	69	72	69	70	63	55	59	63	68	72	69	61.9
Rolla....................	Maximum ...	75	74	76	79	79	84	87	87	85	89	88	87	92	86	90	96	96	80	82	86	93	89	96	92	83	89	88	93	91	87	90	86.7
	Minimum ...	51	53	51	51	53	54	54	63	65	60	61	67	68	64	63	64	65	62	66	68	73	70	68	73	62	61	63	67	71	73	71	63.1
Springfield	Maximum...	71	71	71	72	75	77	80	82	79	81	82	82	89	79	83	91	82	76	88	81	87	86	91	90	78	83	83	88	83	76	83	81.3
	Minimum ...	55	56	53	56	60	54	60	66	67	62	65	66	69	65	65	72	71	68	71	69	69	67	71	71	63	62	65	67	71	70	70	65.0
Southwest Plain.																																	
Appleton City	Maximum...	76	73	76	78	80	81	76	86	84	85	83	84	88	81	84	94	84	81	86	82	90	86	91	90	84	88	86	90	81	84	89	83 9
	Minimum ...	54	54	53	54	59	55	57	68	66	61	64	66	69	64	65	69	67	69	69	68	72	69	69	69	65	62	64	66	73	73	73	64.7
Clinton.................	Maximum ...	80	78	82	84	85	88	90	90	90	87	90	90	93	83	90	98	96	82	84	82	96	92	95	91	90	92	92	95	91	91	96	89.1
	Minimum ...	53	55	52	55	55	55	57	68	66	59	63	67	70	64	62	79	67	68	73	68	73	70	68	74	60	64	65	68	72	73	70	64.9
Harrisonville§§	Maximum...	76	74	75	79	80	79	84	86	85	87	82	86	84	82	84	95	83	77	84	80	89	86	89	85	84	83	84	89	77	87	87	83.3
	Minimum ...	50	51	53	53	55	55	58	59	67	60	62	65	67	61	63	65	66	66	68	69	69	65	66	69	57	59	64	66	67	69	70	62.4
Lamar§§................	Maximum ...	74	73	75	77	80	83	85	86	84	86	87	85	92	80	86	94	85	81	90	83	90	87	94	92	82	86	88	92	82	89	89	85.1
	Minimum ...	53	54	50	50	51	52	55	61	68	58	62	66	68	66	64	67	69	69	71	71	72	72	69	71	60	60	62	64	70	72	71	63.5
Lamonte...............	Maximum...	77	75	78	81	82	83	87	86	82	88	84	89	88	85	90	96	85	75	82	83	93	90	94	87	85	88	88	93	84	90	93	85.8
	Minimum ...	50	53	50	49	51	54	55	66	66	58	62	67	67	61	59	62	67	64	69	68	72	68	63	70	58	60	64	66	70	70	68	62.2
Marshall	Maximum...	68	75	77	80	84	85	85	83	84	85	83	88	84	84	88	93	88	79	90	83	91	89	90	89	85	89	87	90	88	89	92	85.3
	Minimum ...	50	50	52	49	52	55	55	63	62	59	60	67	65	64	58	63	66	61	63	63	63	64	63	71	58	59	65	65	68	69	69	61 0
Nevada.................	Maximum...	73	73	73	76	79	80	83	85	82	83	84	80	87	81	83	93	89	81	88	83	88	88	90	87	80	85	85	89	81	83	88	83.2
	Minimum ...	52	53	49	50	52	52	60	66	66	56	65	65	66	64	64	73	66	69	72	71	73	70	68	75	60	60	64	67	73	71	69	63.9
Warrensburg	Maximum ...	76	73	76	78	81	82	87	86	83	87	85	87	86	83	88	96	91	79	86	83	91	86	93	86	84	87	86	91	82	89	90	85.1
	Minimum ...	49	58	49	54	59	54	58	66	62	57	64	67	64	61	63	60	68	65	71	67	73	67	67	73	59	60	64	65	63	71	71	62.9
Warsaw	Maximum...	75	73	76	77	80	81	85	85	82	84	85	84	90	83	85	94	88	78	86	83	92	87	92	88	82	86	90	91	86	85	91	84.6
	Minimum ...	50	54	49	48	51	51	53	67	65	56	61	57	67	62	61	67	67	67	72	69	72	70	66	73	60	60	69	67	73	72	69	62.7
Northwest Plateau.																																	
Chillicothe §§..........	Maximum ...	74	72	74	79	81	82	84	87	80	83	84	87	76	79	86	93	84	69	78	84	91	85	90	79	83	85	82	91	86	90	86	82.7
	Minimum ...	51	49	49	49	52	53	53	58	67	55	59	68	62	61	56	61	64	60	61	67	71	64	61	70	58	63	64	65	67	67	66	60.4
Grant City.............	Maximum ...	77	73	76	79	81	82	83	80	83	83	84	87	82	80	85	92	88	75	79	86	90	88	89	87	84	89	85	90	87	91	86	83.9
	Minimum ...	48	50	48	49	54	53	55	66	66	54	64	67	63	57	55	62	67	61	68	68	73	60	62	67	57	58	64	65	70	66	64	60.7
Kansas City	Maximum ...	76	68	72	75	78	80	85	89	82	85	84	88	79	79	86	97	83	73	83	82	90	84	91	82	83	88	85	91	80	90	87	83.1
	Minimum ...	58	53	56	56	61	62	64	71	69	66	67	67	64	63	69	64	65	65	70	70	74	69	70	71	63	66	68	70	70	74	72	66 0
Kidder§§	Maximum ...	77	74	75	80	81	82	85	87	83	85	85	89	78	81	87	94	86	69	79	87	90	87	90	84	86	88	81	89	85	93	87	84.0
	Minimum ...	49	47	49	49	52	54	56	59	66	56	60	64	63	60	58	62	64	60	61	66	71	61	61	65	55	60	62	63	67	65	66	59.7
Lexington§§...........	Maximum ...	76	73	77	80	81	79	85	85	84	87	82	89	85	83	88	95	85	77	85	82	90	86	89	83	84	89	85	89	82	91	90	84.4
	Minimum ...	52	52	50	51	54	54	54	67	67	59	63	63	63	62	59	63	67	64	69	68	72	65	63	75	63	63	66	67	73	70	72	62.9
Maryville	Maximum ...	79	75	79	77	82	81	85	86	83	84	83	90	78	82	86	93	85	71	85	86	90	90	91	83	86	88	79	91	80	93	83	84 0
	Minimum ...	49	47	47	50	54	56	58	64	65	54	54	64	63	57	57	64	65	62	63	63	73	60	65	65	57	59	65	64	70	66	65	60.2
Oregon	Maximum ...	76	71	76	79	82	82	84	88	80	84	84	86	81	78	85	91	86	74	82	83	90	88	89	84	81	84	79	89	84	87	81	82.8
	Minimum ...	49	50	51	52	56	55	58	66	67	56	65	64	63	60	60	64	65	61	64	70	73	63	64	65	57	60	66	65	71	66	67	61.7
St. Joseph	Maximum ...	76	74	74	79	80	82	86	89	82	85	85	88	79	81	89	98	85	70	82	86	91	87	92	81	84	87	83	92	81	91	87	84.1
	Minimum ...	53	51	50	51	54	58	60	70	66	58	68	67	65	63	60	66	66	64	68	71	71	65	69	67	61	66	70	66	71	69	69	63.6
Trenton	Maximum ...	71	71	70	74	77	79	81	85	79	79	83	84	76	76	80	86	80	70	76	82	86	81	85	80	79	80	81	87	87	85	81	79.7
	Minimum ...	54	50	51	51	56	55	60	65	67	60	62	68	62	61	60	62	68	61	61	68	71	65	65	70	71	66	67	67	70	69	68	62.9

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVIII. COLUMBIA, MO., AUGUST, 1924. No. 8.

GENERAL SUMMARY.

As compared with averages, the weather of August, 1924, in Missouri, was without unusual features, though it does stand out as the only real summer month of the year. Normally July is warmer than August, but the current month was much warmer than the preceding July, though, it must be said, July was an uncommonly cool summer month. The temperature conditions of the current August, however, were not constant. Except a few scattered summer days, the first half or more of the month was mainly cooler than normal. The last ten days were persistently hot, and more than made up the deficiency of the first part. The extremes of 48° and 106° are well within limits of past years.

There was no lack of rainfall anywhere. Crops were good generally, and throughout the Ozarks they probably were never better at the time of season. Thunderstorms were numerous, but mostly of a mild type. Damage resulting from rain, hail, and wind was relatively small, and local.

TEMPERATURE.

The monthly mean temperature for the State was 77.2°, as based upon the reports of 65 stations. The month was nearly 4° warmer than July, and about 1.2° warmer than the 36-year August normal. In the northwestern plateau the average daily excess was less than 1°, but in the other four divisions it ranged from 1° to 1.5°. Except some warm weather a few days during the first half of the month was mainly cool, but real summer weather prevailed most of the time on and after the 19th. Afternoon temperatures reached 90° or higher on 17 days, and the 100° was reached at nine stations on one or two days. The extremes were 106° and 48°.

PRECIPITATION.

The precipitation for the State, 102 stations reporting, 4.14 inches, or 0.46 inch more than the 56 years' average. Over portions of the southwestern and northwest sections the rainfall was slightly less than normal; it was normally wet in the northeast, and excessively wet in most of the Ozark Plateau; in the southeastern lowlands the month was more than 1 inch dryer than usual. Except in the southeastern lowlands showers fell quite often, the most general and heaviest falling on the 5-6th, 10-11th, 14-16th, and 22-24th. The greatest local monthly amount was 9.51 inches, at Lebanon, and the least was 0.99 inch, at Warrensburg. The greatest amount in any 24 consecutive hours was 3.50 inches, at Lebanon on the 11th.

WIND.

The prevailing winds were from the south. The average movement based upon the reports of 8 stations equipped with anemometers, was 5,768 miles, or about 7.8 miles an hour, and about 15 per cent more than normal. There were a few thunderstorm squalls.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine for the State, six well placed stations equipped with sunshine recorders reporting, was 327, 74 per cent of the possible, and about 3 per cent more than normal. The current month had about 6 per cent more sunshine than August, 1923.

MISCELLANEOUS PHENOMENA.

Hail.---At Downing, Fayette, and St. Joseph, 8th. Conception, Kidder, 23d. Eldon, on the 24th.

Halos, solar.---1st, 4th, 8th, 22d, 24th, and 31st.

Halos, lunar.---None.

Thunderstorms.---General, 2d, 6th, 8th, 19th, 24th, and 31st. Local, 1st, 4th, 9th, 10th, 11th, 15th, 16th, 21st, 22d, and 23d.

SPECIAL STORM NOTES.

During the afternoon and evening of the 23d a thunderstorm, attended by rain, hail, and squalls, advanced from west to east across the northwest part of the State from about Buchanan to Nodaway counties and as far east as Caldwell and Daviess counties. Damage was light, except in the neighborhoods of Conception, and Kidder. At Conception some hail was "goose egg size", and at Kidder, the stones "were large." Damage seemed to have been confined to relatively narrow strips, mostly corn, but a few windows were broken and outhouses damaged. Estimated damage put at about $10,000.

Wind squalls, with some minor damage, occurred at Brunswick on the 5th; Gorin on the 8th, and Maryville on the 24th.

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PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	29.93	87	72	321	76	4,697	6.3	39	nw.	24
Hannibal	29.94	81	..	...	..	5,629	7.6	38	nw.	8
Kansas City	29.91	80	63	356	84	6,855	9.2	50	n.	24
St. Joseph	29.90	82	64	322	76	5,554	7.5	34	nw.	5
St. Louis	29.96	79	61	309	73	8,194	11.0	56	nw.	9
Springfield	29.97	84	71	333	79	6,416	8.6	34	s.	15
Cairo, Ill	29.97	85	70	...	..	4,420	5.9	42	n.	9
Keokuk, Iowa	29.95	84	67	320	75	4,377	5.9	34	sw.	5

COMPARATIVE DATA FOR AUGUST.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	74.0	−1.6	110	48	7.25	−3.80	......	0	11	....	....	....
1889	73.5	−2.1	101	52	1.96	−1.49	......	0	14	....	....	....
1890	73.3	−2.3	104	49	4.84	+1.39	......	0	9	....	....	....
1891	73.2	−2.4	108	38	5.34	+1.89	......	0	8	....	....	....
1892	74.3	−1.3	100	40	2.42	−1.03	4.55	0	6	17	8	6
1893	72.8	−2.8	100	40	2.20	−1.25	5.60	0	4	18	10	3
1894	77.0	+1.4	111	39	1.58	−1.87	3.07	0	5	14	16	1
1895	75.3	−0 3	104	48	4.23	+0.78	3.50	0	8	15	11	5
1896	76.6	+1.0	108	41	3.25	−0.20	4.80	0	6	17	10	4
1897	74.1	−1.5	108	41	2.39	−1.06	5.00	0	6	19	9	3
1898	75.8	+0.2	103	44	3.03	−0.42	4.75	0	5	17	10	4
1899	78.8	+3.2	107	49	3.35	−0.10	4.28	0	7	18	10	3
1900	80 3	+4.7	105	52	3.51	+0.06	2 77	0	6	19	9	3
1901	78.4	+2.8	109	47	1.88	−1.57	4.33	0	5	19	9	3
1902	75.0	−0.6	103	47	6.16	+2.71	7.84	0	10	14	11	6
1903	74.4	−1.2	102	43	5.40	−1.95	6.40	0	10	16	11	4
1904	73.7	−1.9	100	43	5.46	+2.01	4.43	0	8	16	10	5
1905	76.4	+0.8	102	48	4.69	+1.24	3.94	0	8	19	7	5
1906	76.6	+1.0	101	40	4.72	+0.27	3.55	0	11	14	10	7
1907	77.3	+1.7	109	47	3.71	+0.26	6.30	0	9	17	8	6
1908	76.4	+0.8	102	46	3.87	+0.42	3.57	0	8	17	9	5
1909	79.5	+3.9	110	46	0.55	−2.90	4.00	0	2	24	6	1
1910	74.7	−0.9	103	40	2.77	−0.68	5.80	0	6	15	9	7
1911	75.4	−0.2	109	41	4.20	+0 55	5.17	0	7	15	8	8
1912	76.2	+0.6	104	41	4.19	−0.74	2.62	0	9	17	8	6
1913	82.8	+6.9	110	41	1.06	−2.51	3.51	0	3	22	7	2
1914	78.0	+1.8	106	49	4.25	+0.60	8.50	0	9	15	9	7
1915	69.8	−6.5	98	37	7.86	+4.15	8.20	0	12	12	9	10
1916	79.2	+2 9	107	41	4.05	+0.49	6.48	0	7	19	7	5
1917	73.3	−2.9	104	38	4.45	+0.94	5.20	0	9	16	8	7
1918	81.8	+5.8	111	45	3.34	−0.27	3.42	0	8	17	9	5
1919	75.7	−0.5	106	44	4.29	+0.49	7 00	0	8	17	9	5
1920	73.1	−3.0	102	43	4.78	+0.89	5.77	0	9	15	8	8
1921	76.8	+0.8	109	48	5.27	+1.63	5.20	0	9	14	10	7
1922	77.5	+1.2	107	46	2.40	−1.60	3.87	0	6	18	8	5
1923	77 3	+1.3	108	42	3.99	+0.31	5.25	0	8	16	9	6
1924	77.2	+1.2	106	48	4.14	+0.46	3.50	0	7	19	8	4
....	......	......	.....	......	....	......	......	....	....	....	....	....

Climatological Data for August, 1924.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	45	78.2	+ 4.4	98	20	53	12	32	2.43	−1.46	0.95	0	8	21	0	10	e.	O. K. Benecke
Clifton Hill	Randolph	731	25	76.6	+ 0.4	96	20	56	14	31	2.64	−1.39	1.40	0	6	13	14	4	......	Dr. A. J. Bradsher
Columbia	Boone	748	34	77.1	+ 1.5	95	20	53	12	29	3.09	+0.05	1.42	0	9	16	12	3	s.	U. S. Weather Bureau
Downing	Schuyler	878	3	75.2	......	95	20†	54	14	30	7.11	+3.59	2.42	0	7	18	8	5	s.	E. E. St. Clair
Fayette	Howard	661	44	76.1	0.0	98	21	51	12	30	2.46	−0.76	0.89	0	5	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	36	76.4	− 0.1	94	21†	57	13	29	3.37	−0.14	0.88	0	7	22	6	3	s.	Westminster College
Gorin	Scotland	700	37	....	......	..	..	..	..	..	4.78	+1.78	1.47	0	7	14	11	6	sw.	J. W. Pulliam
Hannibal	Marion	534	32	76.8	+ 1.8	97	5	53	12	29	2.54	−0.84	1.00	0	9	14	15	2	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	36	76.6	− 0.1	94	27†	56	12	31	4.70	+1.64	1.60	0	7	25	5	1	s.	Miss Emma Swift
Kirksville	Adair	969	35	73.9	− 0.1	96	3	53	12†	40	5.84	+2.52	2.17	0	7	23	3	5	s.	Prof. J. S. Stokes
Louisiana	Pike	469	30	76.7	+ 1.7	101	22	48	12	37	5.07	+1.34	1.76	0	9	28	2	1	w.	J. T. Farrell
Macon	Macon	875	25	77.1	+ 0.8	99	4†	52	12	33	4.62	+1.34	2.43	0	7	18	10	3	sw.	W. C. Brown
Mexico	Audrain	800	35	77.6	+ 1.5	100	5	52	12	33	2.22	−1.03	0.72	0	7	25	0	6	w.	Mrs. Abbie Snoddy
Palmyra	Marion	652	25	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	....
St. Catharine	Linn	800	13	75.4	+ 1.3	94	5†	50	12	32	3.03	−0.67	1.27	0	8	17	10	4	sw.	L. D. Baker
St. Charles	St. Charles	456	36	78.5	+ 1.8	97	31	55	14	30	5.18	+1.72	1.92	0	6	16	12	3	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	50	78.2	+ 0.9	95	27	57	14	27	3.90	+1.24	0.98	0	9	17	9	5	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	12	77.8	+ 0.6	95	4†	58	14	28	4.95	−0.66	1.25	0	11	21	8	2	se.	St. Louis University
Shelbina	Shelby	779	31	....	......	..	..	..	..	..	3.47	+0.62	1.94	0	7	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	26	78.2	+ 1.5	100	27	52	12	33	3.85	+0.38	1.20	0	6	16	13	2	s.	Frank Hall
Unionville	Putnam	1,062	31	74.5	− 0.5	95	3	50	10	33	4.45	+0.49	1.65	0	6	16	9	6	s.	Geo. W. Davis
Warrenton	Warren	816	42	77.6	+ 1.2	96	20	54	12	29	2.32	−0.86	0.86	0	5	23	5	3	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	52	75.4	+ 0.4	97	5	54	14	28	5.60	+2.36	3.09	0	8	11	11	9	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	76.7	+ 1.0	101	22	48	12	40	3.98	+0.51	3.09	0	8	19	8	4	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	28	84.8	+ 5.1	106	4†	62	13†	34	1.00	−2.57	0.40	0	4	27	4	0	s.	H. E. Averill
Doniphan	Ripley	344	20	78.6	+ 1.2	98	5	54	13	36	2.75	−1.56	1.10	0	4	10	21	0	w.	W. W. Martin
Jackson	Cape Girardeau	428	33	77.4	+ 1.2	97	21†	54	13	42	3.10	−0.51	0.78	0	7	13	10	8	s.	John G. Putz
Marble Hill	Bollinger	470	29	77.5	+ 0.5	95	21†	54	18	38	2.79	−0.71	0.96	0	4	22	8	1	w.	R. A. DeWitt
Parma	New Madrid	281	3	....	......	..	..	..	..	..	2.73	......	1.30	0	6	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	15	....	......	..	..	..	..	..	2.94	−1.60	0.97	0	4	..	..	..	......	George F. Ellis.
Poplar Bluff††	Butler	339	20	78.8	+ 0.8	100	5†	51	13	38	3.42	−0.85	1.22	0	7	24	5	2	s.	J. H. Wolpers
Vanduser	Scott	304	23	....	......	..	..	..	..	..	2.25	−1.56	0.95	0	4	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	78.2	+ 0.4	95	4	62	14	28	2.84	−0.09	0.94	0	7	17	6	8	s.	U. S. Weather Bureau
Section means and	extremes	....	..	79.2	+ 1.5	106	4†	51	13	42	2.65	−1.18	1.30	0	5	19	9	3	s.	
Ozark Plateau.																				
Arcadia	Iron	926	43	72.8	− 1.7	91	27	52	13	29	4.85	+1.13	1.33	0	11	23	6	2	s.	Arcadia College
Birchtree	Shannon	1,000	29	76.7	+ 0.8	93	28	50	13	33	4.42	+0.03	1.25	0	8	22	6	3	s.	V. H. Kirkendall
Bolivar	Polk	1,071	30	77.8	+ 0.8	93	5†	57	12	29	7.26	+3.58	2.82	0	9	20^{a}	7^{a}	3^{a}	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	25	..	......	..	..	..	..	..	4.29	+0.02	1.42	0	9	21^{a}	3^{a}	6^{a}	e.	H. E. Dean
Eldon	Miller	934	28	76.8	+ 0.4	98	28	52	12	33	2.13	−1.85	0.72	0	6	15	11	5	sw.	E. H. Shepherd
Farmington	St. Francois	918	13	76.6	+ 1.8	96	8	53	13	30	3.48	+0.10	1.58	0	6	19	9	3	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	77.6	+ 1.5	98	20	54	12	30	7.11	+2.70	3.57	0	9	20	8	3	s.	A. C. Leach
Goodland	Iron	1,000	30	75.8	+ 1.3	95	28	50	13	35	5.89	+1.86	1.75	0	7	22	7	2	s.	F. M. Adams
Greenville	Wayne	381	2	76.6	......	95	4†	50	15	34	5.65	......	2.30	0	5	23	6	2	s.	A. M. Rhodes
Hollister	Taney	735	37	78.3	+ 0.4	98	28	55	14	34	5.00	+1.03	1.40	0	6	23	6	2	s.	Mrs. W. P. Chapmann
Koshkonong	Oregon	958	23	79.0	+ 1.3	96	3	59	13	26	7.93	+3.48	3.04	0	6	19	7	5	sw	R. M. Hitt
Lebanon	Laclede	1,265	36	77.9	+ 1.6	101	23	52	12	40	9.51	+5.98	3.50	0	10	23	5	3	s	Thomas E. Mulcare
Lockwood	Dade	1,078	18	78.2	+ 1.0	94	28	57	12	26	7.76	+3.59	2.16	0	6	24	5	2	sw.	C. S. Crow
Mountain Grove	Wright	1,463	23	76.8	+ 1.7	94	23†	55	13	30	7.22	+2.82	2.18	0	11	20	9	2	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	36	78.6	+ 1.7	95	29	55	12	30	5.20	+1.11	1.94	0	7	20	11	0	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	24	78.8	+ 3.0	97	8	57	12†	30	3.67	−0.41	1.06	0	6	23	7	1	sw.	Prof. Elmo G. Harris
Seligman	Barry	1,542	22	78.2^{a}	+ 2.6	94	28	60	14	28	4.72	+0 73	1.49	0	8	18^{a}	9^{a}	3^{a}	s.	Floyd E. Fawver
Seymour	Webster	1,642	18	75.8	+ 0.8	92	28	52	13	33	4.27	+0.43	2.00	0	8	22	7	2	s.	Ira H. Hailey
Springfield	Greene	1,350	36	77 0	+ 1.3	91	23	60	12	23	5.97	+1.66	1.80	0	9	24	5	2	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	76.6	+ 1.2	101	23	50	13†	40	5.60	+1.53	3.50	0	8	21	7	3	s.	
Southwest Plain.																				
Appleton City	St. Clair	853	30	78.4	+ 0.6	94	27†	56	12	29	2 37	−1.37	1.33	0	7	16	14	1	sw.	W. G. Bigelow
Clinton	Henry	765	31	80.9	+ 4.1	100	5	55	12	31	3.59	+0.23	1.90	0	5	22	8	1	sw.	A. E. Derwent, M. D
Harrisonville	Cass	904	47	76.5	+ 0.7	96	27	53	12†	31	3.98	−0.17	1.66	0	7	11	0	20	s.	John H. Patterson
Lamar	Barton	980	37	78.6	+ 1.1	97	28	57	12	29	5.02	+0.84	1.82	0	9	20	8	3	sw.	Jesse A. Mann
Lamonte	Pettis	867	23	79.2	+ 2 5	100	28	52	12	35	2.89	−0.83	1.03	0	5	23	7	1	se.	J. E. Wheeler
Marshall	Saline	779	35	78.0	+ 2.4	97	27	52	12	33	3.85	+0.19	1.89	0	6	17^{a}	11^{a}	2^{a}	sw.	Dr. W. H. Black
Nevada	Vernon	862	31	77.7^{a}	+ 0.8	98	28	59	12	31	4.67	+1.16	2.00	0	7	18^{a}	6^{a}	6^{a}	sw.	George A. Kaupp
Warrensburg	Johnson	878	37	76.2^{j}	− 0.8	99	28	52	12	32	0.99	−2.60	0.32	0	6	14^{j}	6^{j}	1^{j}	sw.	E. A. Markey.
Warsaw	Benton	687	24	77.9	+ 0.5	97	28	51	25	38	3.15	−1.14	1.67	0	3	17	11	3	s.	Everett Martin
Section means and	extremes	.....	..	78.2	+ 1.3	100	5†	51	25	38	3.39	−0.41	2.00	0	6	18	8	5	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	34	76.8	+ 0.2	96	20	55	12	29	2.41	−1 20	1.20	0	6	25	4	2	sw.	F. G. Ashbaugh
Bethany	Harrison	916	32	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	Owen Ross
Chillicothe	Livingston	779	15	75.4	− 0.7	96	3†	49	12	32	2.84	−1.82	1.30	0	8	15	13	3	sw.	Wm. J. Olenhouse
Conception	Nodaway	980	35	76.2	+ 1.6	98	20	54	10	27	3.55	+0.07	0.91	0	12	15	12	4	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	4	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	Fred L. Stiff
Grant City	Worth	1,134	20	75.6	+ 0.7	96	26	52	12	30	3.69	+0.06	0.98	0	6	16	15	0	s.	B. F. Locke
Kansas City	Jackson	963	35	78.2	+ 1.6	95	3	59	10	26	3.12	−1.63	1.52	0	8	18	10	3	s	U. S. Weather Bureau
Kidder	Caldwell	1,020	31	75.8	+ 0.1	99	5†	54	10†	32	4.14	+0.23	1.59	0	8	22	4	5	se.	Linn Terry
Lexington	Lafayette	688	39	77.7	+ 1.7	97	28	54	12	28	5.27	+2.04	1.87	0	7	23	7	1	s.	Edwin G. Loomis
Liberty	Clay	859	34	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	....
Maryville	Nodaway	1,169	34	75.8	+ 2.2	100	26	51	10	32	1.66	−2.20	0.65	0	5	19	4	8	s.	J. R. Brink
Oregon	Holt	1,048	68	75.0	0.0	94	26	54	10†	26	4.23	+0.26	2.12	0	8	16	13	2	se.	Tom Curry
St. Joseph	Buchanan	967	16	77.8	+ 1.0	97	26	57	12	27	3.17	0.00	1.14	0	10	16	12	3	se.	U. S. Weather Bureau
Tarkio	Atchison	916	21	75.2	− 0.4	98	26	51	10	31	3.36	−0.51	0.78	0	10	14	9	8	se.	Albert Volker
Trenton	Grundy	822	28	74.6	− 0 6	92	5	56	10†	24	3.13	−0.49	0.86	0	9	21	7	3	s.	W. H. Estes
Section means and	extremes	.....	..	76.2	+ 0.6	100	26	49	12	32	3.38	−0.43	2.12	0	8	19	9	3	s.	
State means and	extremes	.....	..	77.2	+ 1.2	106	4†	48	12	42	4.14	+0.46	3.50	0	7	19	8	4	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson; of Gano Salem, R. F. D. No. 5.

Daily Precipitation for Augsut, 1924.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri		.06				1.10	.40		.55		.25					.08								.48								2.92
Brunswick‖	Grand						.95	.05		.35		.14				.06	.30						.08		.50								2.43
Clifton Hill	Chariton				T.		.42			.30	.03	.06			T.	.43									1.40								2.64
Columbia***	Missouri	.30					.58		1.33	.09	.07	.02				.15	T.			T.				T.	.50							.05	3.09
Downing	Mississippi					.21	1.54		.10	2.42						.50				T.					2.25							.09	7.11
Fayette⦀	Missouri						.88		.89		.09					.03							T.		.57								2.46
Fulton	do	.75					.50			.30	.88					.14	.30								.50								3.37
Gorin	Mississippi					.40	1.47			1.44						.37				.07					.87							.16	4.78
Hannibal***	do						.28		.98		.07	.01		.03		.16				.01			T.	.08	.92								2.54
Hermann‖	Missouri									2.20		1.03					.41								.45								4.09
Jefferson City‖	do	.97	.33				.18			1.10		1.60					.12							.40									4.70
Kirksville	Mississippi					1.96				1.20	.06				.10	.15								.20	2.17								5.84
Louisiana	do		.50				.05			.74		.03	.05	.26		.33				T.					1.76							1.35	5.07
Macon ‖	Chariton						.67	.33		.90		.13				.02	.14							T.	2.43								4.62
Mexico ‖	Mississippi						.44	.10		.72	.01	.15					.10			T.					.70								2.22
Milan‖	Grand						1.95	.12		1.75		.05							.35				.10		1.60								5.92
Pacific‖	Meramec	.03	.17					.12		.39		1.18	.78				.20								.52								3.39
Palmyra‖	Mississippi																																....
St. Catharine	Grand					T.	.97			.42	.08	.09			.03	.14							T.	.03	1.27								3.03
St. Charles	Missouri		1.75				.03			.66		.36				T.				T.					1.92							.46	5.18
St. Louis (1)***	Mississippi	T.	.98				.66		.45	.09	T.	.59				.06	T			.08			T		.97							.02	3.90
St. Louis (2)	do	.04	1.25				.71		.79	.09		.44				.05	T.			.21		T.	.02		1.02							.33	4.95
Shelbina ⦀	do						.57		.02	.62		.12	.03				.17								1.94								3.47
Steffenville	do						1.20			.90	T.	.10				.05								.40	1.20								3.85
Union‖	Meramec	.15	.84							1.48		1.32	.54				.42								.84								5.59
Unionville	Chariton					.40	1.25		T.	1.00	T.				.20	.50				T.			T.	T.	1.10							T.	4.45
Valley Park⦀	Meramec		.10	.52				.35		.33		.62	1.13				.19				.01		.10		1.18								4.53
Warrenton	Mississippi		.38				T.			.50		.28				T.	.30								.86							T.	2.32
Keokuk, Ia.***	do					.97	2.12		1.26							.20				.13			.06	.01	.85							T.	5.60
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi	.02	.17	.43						.02		.16	.02				.59									.59							2.04
Caruthersville	do	T.	T.				T.	T.			.30	.10					.20								.40								1.00
Doniphan	Black	T.					T.	.04			.38	.67				T.	1.10								.60								2.75
Jackson	Mississippi	.30	.43					.08		.78		.15					.62								.74								3.10
Leeper ‖	Black		2.00					.16			.19	.54	.15				.98								.90								4.92
Marble Hill	Mississippi		.60									.40					.96								.83								2.79
New Madrid‖	do	.03	.33	.24				1.50		1.10	.03		.10				.10									.40							3.83
Parma	St. Francis	.15	.46						1.30			.22					.15								.45								2.73
Patton (near)	Mississippi		.97									.66					.74								.57								2.94
Poplar Bluff	Black	1.22					.33			.12	.20	.28				.46								.81									3.42
Vanduser	Mississippi	.21		.95								.22					.87																2.25
Cairo, Ill.***	do		.35				.93	.01		.18		.10				T.	.81								.46								2.84
Ozark Plateau.																																	
Annapolis‖	St. Francis	1.47								.37		.74				.87									.87								4.32
Arcadia ‖	do	.10	.91	.17				T.		.10	.14	.44	.72				.73	T.					T.	.08	1.33	.13							4.85
Birchtree	Black	1.25					.10	.10		.06	.68	.70					.83								.70								4.42
Bolivar‖	Osage	.15					.72				.08	2.82				.50	.75						.01		.03							2.20	7.26
Dean	Neosho		1.25				1.42			.04	.11	.65				.52	.27	.01					.02										4.29
De Soto⦀	Mississippi		.98				.09			.49		1.89				.21									1.14							.73	5.53
Eldon	Missouri	.50	.03				.27			.16						.72									.45								2.13
Farmington	St. Francis	T.	.18				T.			.34		1.58				T.	.50						.04		.84								3.48
Fredericktown⦀	do				.41		T.	.66				.71					.33			.28			.30	.67		.31							3.67
Galena⦀	White		.50				1.05					1.12																					2.67
Gano	Meramec	.05	.04				T.			.24	1.64	3.57				.08	.62			T.	.05				.82							T.	7.11
Goodland	Black		1.53							.15	.40	1.75					.81						.65		.60								5.89
Greenville	St. Francis	.25	2.30								1.00						1.20								.90								5.65
Hollister	White	.10					.60				.90	1.30				.70																1.40	5.00
Jerome ‖	Gasconade								.20	.03	1.26						.34								1.10								2.93
Koshkonong	Black	.77					.20				3.04	3 00					.45								.47								7.93
Lebanon ‖	Osage	.29	.50				.16	.09		.29	2.10	3.50	1.12				.77								.69								9.51
Lockwood	do		.10				2.16				1.65	1.70				.50	1.65															T.	7.76
Mineral Point⦀	Meramec																																....
Mountain Grove‖	White	.07	.03				.18			.84	.38	1.70				.14	.90			.24					.56							2.18	7.22
Neosho	Neosho		.80				1.94			.14		1.43				.58	.21								.10								5.20
Rolla	Meramec						T.		.28		.96	.62				.29								1.06								.46	3.67
Seligman	Neosho		1.49				.77			.02	.22		.75			.25	.67															.55	4.72
Seymour	White	T.		.18			.63			.15		2.00				.28	.72								.19							.12	4.27
Springfield***	do	.09	.10				.84			1.80		1.03				1.03	.75						T.		.07							.26	5.97
Steelville‖	Meramec	1.23	.07							.40		1.27	.54				.30								.67								4.48
Tuscumbia ‖	Osage		.40				.30	.17		.25		.85	.02				.29		T.						.39								2.67
Willow Sprgs. ⦀ (near)	White		.11				.13			.57	.91	1.10	1.40				1.50				.04				.40	.20							6.36
Southwest Plain.																																	
Appleton City	Osage		.09			.01	1.33			.01		.40				.40	T.						.13										2.37
Clinton	do						1.90	.02				1.02				.60						.05											3.59
Harrisonville‖	do	.44	T.				1.66	.39				.65				.22	.39						.23										3.98
Joplin*	Neosho		.39				1.56			.66		3.00				2.21	T.							.26								.03	8.11
Lamar‖	do		.10				1.82	.03			1.40	.38	.14			T.	.82						.03	.30									5.02
Lamonte	Missouri	.58					1.03			.12		.98				.18																	2 89
Marshall	do						1.89			.87		.07				.10				.07			T.		.85							T.	3.85
Nevada	Osage	.20	.33			T.	2.00			.73		.60				.48							.33										4.67
Osceola⦀	do	.08	.16				1.45					.58				.37	.64							.24									3 52
Warrensburg	Missouri	.12					.32			.02		.14				.32							.07										0.99
Warsaw	Osage					T.	1.23			T.	T.	1.67				.25																	3.15
Waverly ‖	Missouri						1.21	.47		2.52		.08				.15		T.					T.		1.30								5.73
Northwest Plateau.																																	
Albany⦀	Grand					.75									.80										1.31						.35		3.21
Avalon	do					1.20				.06	.09				.16							.25			.65								2.41
Bethany	do																																....
Chillicothe⦀	do						.62	.11		.01		.22				.09	.13						.36		1.30								2.84
Conception	Missouri		.05		T.	.91	.52				.03	.05	T.		.22	.56	.08					T.	.13	.12	.71							.17	3.55
Edgerton	do																																....
Gallatin	Grand						.35	.20				.20				.40	.20						.20		.75								2.30
Grant City	do		T.		T.	.42	.70				T.				T.	.70				T.			T.	.73	.98							.16	3.69
Kansas City***	Missouri				T.	.57	.95				.82	.03			.01	.29		T.		T.		.13	.32		T.							T	3.12
Kidder ‖	Grand						.92	.50		.37		.13				.28	.10						.25	1.59									4.14
Lexington	Missouri						1.62	.10	1.87		1.16				.20	.06							.26										5.27
Liberty	do																																....
Maryville	do		.07									.30				.65							.17		.47								1.66
Oregon	do		.32			2.00	.12				.34		T.			.47	T.						.36		.19							.43	4.23
St. Joseph***	do	T.	.20		T.	.27	.37		1.14	T.	.22	.01				.36						.09	.08		.43								3.17
Tarkio	do		.68			.18	.20				.10		.15	.02		.78							.05	.55	.65								3.36
Trenton	Grand					.25	.56		.35	T.	.06				.53	.34				T.		T.	.13	.05	.86								3.13

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for August, 1924.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	84	94	96	96	96	84	90	94	82	84	83	85	82	84	73	84	84	90	94	98	96	90	97	88	92	95	97	97	97	95	85	89.9
	Minimum	66	68	70	75	74	70	68	68	67	59	65	53	55	57	60	64	59	65	68	77	76	70	66	64	64	66	70	68	69	71	73	66.6
Columbia	Maximum	83	89	94	93	94	81	86	94	82	79	79	80	81	82	78	79	79	85	94	95	94	84	91	82	85	92	93	90	93	94	88	86.9
	Minimum	66	72	75	75	73	69	65	65	64	61	60	53	60	59	68	64	60	66	72	77	75	71	66	64	63	67	72	70	70	74	70	67.3
Fayette	Maximum	84	89	94	92	94	77	86	92	84	80	80	81	80	84	74	80	79	86	93	94	96	86	91	84	88	92	94	91	92	94	86	87.0
	Minimum	65	69	71	72	70	68	64	69	63	58	62	51	54	58	65	63	59	58	71	72	74	70	62	62	62	64	68	68	68	69	72	65.2
Hannibal	Maximum	81	87	96	94	97	80	88	94	79	79	78	81	78	79	72	78	79	81	90	96	96	89	91	82	85	91	92	88	91	94	91	86.4
	Minimum	65	69	74	78	75	68	67	65	65	60	59	53	62	56	66	65	60	60	70	79	78	72	67	66	64	67	71	67	68	75	70	67.1
Jefferson City §§	Maximum	85	90	93	92	93	82	82	81	79	74	67	71	82	85	80	80	82	89	93	89	93	90	91	89	89	93	94	92	94	90	92	86.3
	Minimum	69	69	72	74	73	69	66	68	66	65	63	56	60	61	63	61	60	62	70	75	73	74	66	69	63	63	63	66	70	74	72	66.9
Kirksville	Maximum	87	89	96	92	95	86	79	82	76	71	80	81	79	77	71	81	80	84	93	93	89	88	90	85	89	92	90	89	92	93	84	85.6
	Minimum	60	61	61	75	67	61	64	68	60	54	61	53	57	54	65	62	61	53	53	75	70	66	61	62	63	61	68	60	62	66	64	62.2
Louisiana	Maximum	82	88	96	95	96	96	93	94	92	77	80	85	78	80	75	80	78	80	91	96	100	101	92	82	88	92	94	92	93	95	92	88.8
	Minimum	64	66	71	75	70	72	65	65	64	58	64	48	54	54	60	62	52	58	68	78	72	75	62	67	66	60	72	70	62	70	58	64.6
Macon §§	Maximum	86	93	98	99	99	84	90	96	81	83	81	85	84	82	69	82	83	89	95	98	97	90	94	87	89	95	96	93	95	96	82	89.4
	Minimum	62	65	70	75	72	69	64	67	64	55	61	52	59	55	59	62	55	61	64	75	75	70	64	63	63	66	69	64	66	71	72	64.8
Mexico §§	Maximum	85	94	98	96	100	81	90	97	84	81	81	85	82	85	77	82	82	88	96	99	98	90	95	83	89	93	96	94	97	98	95	90.0
	Minimum	64	66	70	74	71	69	65	68	64	59	61	52	56	55	58	64	56	62	63	73	74	72	66	63	61	65	72	65	68	68	73	65.2
St. Catharine	Maximum	81	88	93	92	94	82	84	90	85	78	78	82	79	77	76	78	79	85	92	94	95	88	90	87	85	92	92	88	92	92	85	86.2
	Minimum	64	67	73	74	73	69	66	72	64	55	60	50	57	54	63	59	64	59	70	73	72	67	62	59	60	64	65	62	66	74	69	64.7
St. Louis(1)	Maximum	85	86	93	95	95	82	89	93	87	80	75	80	80	80	79	83	80	83	91	94	94	91	93	82	85	89	95	89	90	95	94	87.3
	Minimum	67	69	72	78	77	75	70	66	66	61	65	61	65	57	64	69	62	60	67	78	77	77	74	67	67	69	74	73	68	70	72	69.0
Unionville	Maximum	84	90	95	93	94	84	84	90	80	80	78	80	80	76	72	78	80	81	91	94	93	88	85	84	88	94	90	90	93	92	85	86.0
	Minimum	60	64	72	72	67	67	60	66	62	50	56	52	56	52	64	60	53	58	70	70	73	68	62	60	60	67	66	57	66	72	60	62.6
Warrenton	Maximum	85	89	95	94	95	91	89	95	91	81	77	83	80	82	80	80	82	84	92	96	95	89	93	87	89	91	95	91	93	95	93	88.8
	Minimum	63	67	71	73	71	72	67	70	65	60	63	54	61	55	63	65	58	59	65	75	73	75	68	66	67	62	72	67	66	70	74	66.4
Southeast Lowlands.																																	
Caruthersville	Maximum	94	91	105	106	106	102	97	104	104	94	88	91	92	94	93	89	96	100	100	101	102	103	103	94	96	92	102	105	103	104	102	98.5
	Minimum	74	73	74	75	72	77	72	72	74	72	72	64	62	66	62	70	70	68	72	77	75	75	70	70	64	67	76	75	73	65	72	71.0
Doniphan	Maximum	91	87	97	97	98	89	92	97	95	85	81	82	85	84	83	83	86	89	93	94	95	97	97	90	87	88	95	96	94	97	93	90.9
	Minimum	69	70	70	67	62	73	70	67	73	66	67	59	54	58	58	65	64	65	66	79	70	69	72	68	61	60	62	68	67	63	70	66.2
Jackson	Maximum	88	86	93	96	95	94	91	95	91	86	82	82	85	85	83	84	86	87	93	95	97	93	96	89	85	90	95	95	92	97	93	90.3
	Minimum	70	67	62	73	57	74	70	67	67	69	66	57	54	57	56	65	64	63	64	74	70	71	63	67	60	59	63	68	60	55	70	64.6
Poplar Bluff	Maximum	88	86	97	99	100	89	93	97	94	88	80	86	89	88	84	84	90	91	94	96	96	97	96	93	92	91	100	100	94	100	93	92.4
	Minimum	66	66	69	64	70	71	67	72	69	67	58	55	51	52	61	65	70	65	71	70	69	72	59	68	61	61	69	66	60	71	68	65.3
Cairo, Ill.	Maximum	83	76	91	95	93	90	89	90	90	83	76	78	83	80	81	83	81	84	90	92	93	93	91	83	84	86	91	91	88	94	90	86.9
	Minimum	74	69	71	77	75	72	72	73	69	71	66	63	62	62	63	67	69	63	70	75	76	75	76	67	64	68	69	73	66	66	74	69.6
Ozark Plateau.																																	
Arcadia §§	Maximum	80	79	88	88	89	78	85	89	84	76	66	75	78	75	74	79	77	79	86	90	88	86	88	80	83	82	91	86	86	88	87	82.6
	Minimum	67	66	66	69	63	68	68	67	64	65	63	54	52	54	58	61	58	58	60	68	69	69	65	66	60	58	62	66	63	62	66	63.1
Birchtree	Maximum	85	83	92	92	92	84	91	92	84	82	76	79	83	82	77	82	84	84	89	92	90	91	92	87	85	89	92	93	92	90	92	87.0
	Minimum	68	69	70	70	67	70	70	70	65	65	67	58	50	60	62	64	65	64	68	73	73	72	69	67	61	62	65	69	68	68	69	66.4
Eldon	Maximum	88	92	95	92	93	85	91	95	81	80	82	83	86	87	78	85	83	90	95	95	95	87	95	86	89	93	96	98	97	96	92	89.7
	Minimum	69	67	70	68	69	70	62	65	64	62	63	52	55	58	54	65	56	63	69	69	70	68	61	64	60	61	62	66	64	70	66	63.9
Farmington	Maximum	94	87	95	95	94	88	91	96	92	84	72	78	82	85	76	78	86	85	92	94	94	91	92	80	85	87	90	91	91	94	94	88.2
	Minimum	68	69	69	73	67	70	68	68	64	65	58	56	53	55	58	64	61	58	63	73	70	71	71	66	60	59	65	69	64	66	70	65.0
Hollister	Maximum	90	92	94	94	95	87	88	90	95	90	89	90	92	88	89	90	90	90	90	96	95	91	97	94	90	94	96	98	96	96	99	92.4
	Minimum	65	68	68	65	64	68	66	69	67	66	64	62	60	55	56	58	60	64	66	68	68	68	65	65	60	62	62	66	67	64	65	64.2
Koshkonong	Maximum	91	87	96	95	96	85	91	95	88	84	79	81	83	86	80	81	88	89	92	93	93	93	94	87	86	90	93	94	95	94	91	89.4
	Minimum	73	70	71	71	70	71	72	72	69	65	65	61	59	61	63	66	65	65	70	72	73	73	70	68	71	65	67	73	69	72	71	68.5
Lebanon §§	Maximum	91	94	94	94	95	85	96	95	99	89	78	85	86	88	78	87	85	89	92	91	94	84	101	89	93	93	93	100	93	93	93	91.0
	Minimum	69	69	70	68	69	66	66	71	65	65	65	52	54	59	62	64	61	63	64	70	71	69	61	62	60	60	63	66	66	69	71	64.8
Mountain Grove §§	Maximum	90	85	91	91	92	80	91	92	89	81	78	84	82	81	78	85	84	84	88	90	90	88	94	89	89	91	92	94	90	90	94	87.7
	Minimum	66	70	70	69	68	68	69	71	66	62	65	56	55	60	63	62	63	64	68	72	70	71	64	66	59	62	66	68	70	68	69	65.8
Neosho	Maximum	90	93	93	90	91	94	92	91	94	89	88	83	86	86	86	90	88	90	92	93	93	93	93	92	89	91	94	94	95	91	91	90.8
	Minimum	67	69	69	70	72	68	71	70	70	66	65	55	57	59	63	67	66	65	65	74	78	67	64	67	61	62	64	66	68	68	70	66.5
Rolla	Maximum	87	94	96	96	96	83	92	97	91	86	83	84	85	88	78	85	84	88	90	96	95	87	95	95	87	90	91	95	94	94	95	90.2
	Minimum	67	72	72	74	70	70	68	71	66	66	64	57	57	60	66	66	61	64	68	75	75	73	66	65	61	61	64	70	69	71	71	67.3
Springfield	Maximum	85	88	89	89	90	80	86	90	87	82	74	78	82	82	77	82	83	84	89	90	89	80	91	87	84	88	89	90	89	90	90	85.6
	Minimum	68	70	73	75	74	67	70	73	65	64	64	60	61	64	63	66	65	68	72	74	73	70	68	68	64	66	71	72	73	72	67	68.4
Southwest Plain.																																	
Appleton City	Maximum	89	90	92	91	92	83	88	92	90	84	80	83	85	86	77	82	83	88	92	92	92	82	93	88	90	92	94	94	92	92	86	88.2
	Minimum	69	69	77	73	75	68	67	74	71	65	65	56	60	65	65	66	62	69	74	74	74	67	64	66	65	66	69	69	72	71	72	68.5
Clinton	Maximum	96	95	98	97	100	88	94	98	90	89	80	85	89	88	78	86	87	92	97	98	97	91	95	95	92	97	97	98	97	97	93	92.7
	Minimum	70	72	75	75	75	68	65	74	70	74	68	55	60	64	65	64	62	68	75	75	75	69	65	65	74	66	75	69	70	67	73	69.1
Harrisonville §§	Maximum	86	88	91	91	92	81	87	90	80	80	81	81	84	84	72	82	80	86	91	92	91	84	91	87	89	94	96	94	92	90	83	86.8
	Minimum	66	67	72	74	73	68	67	68	67	60	64	53	53	63	64	63	61	63	69	73	74	65	65	64	63	65	65	69	69	73	71	66.2
Lamar §§	Maximum	91	91	94	92	94	83	90	93	91	86	78	82	85	88	81	82	88	90	92	94	93	81	94	92	89	91	93	97	95	93	94	89.7
	Minimum	69	69	72	72	74	68	68	71	69	67	66	57	58	62	65	63	65	68	71	74	75	66	65	67	63	64	65	68	70	72	72	67.6
Lamonte	Maximum	89	93	95	94	96	81	92	94	86	86	84	86	86	88	82	85	83	90	95	97	95	96	97	91	94	95	98	100	99	96	90	91.4
	Minimum	66	69	74	75	73	68	64	72	66	62	63	52	60	60	67	62	60	66	71	73	73	72	62	65	60	70	69	67	69	74	72	67.0
Marshall	Maximum	87	92	94	94	95	89	90	92	87	93	82	83	84	85	83	82	82	88	93	95	91	88	90	88	90	93	97	94	91	91	87	89.6
	Minimum	65	65	70	72	71	69	71	72	62	60	65	52	60	58	67	62	63	65	73	77	73	69	62	63	62	65	68	68	69	74	71	66.5
Nevada	Maximum	88	88	91	96	95	85	90	90	86	83	79	79	82	85	80	81	84	87	91	92	90	83	90	87	85	90	94	98	92	90	..	[a]87.7
	Minimum	65	69	75	74	75	73	73	71	69	64	63	59	60	64	63	65	62	68	73	74	75	66	65	64	62	66	72	68	61	73	..	[a]67.7
Warrensburg	Maximum	89	91	93	93	95	85	90	92	87	83	81	81	84	86	80	81	81	..	..	..	..	..	..	..	..	..	..	99	96	85	86	[j]87.7
	Minimum	65	70	74	74	73	68	65	65	63	61	63	59	60	58	62	62	60	..	..	..	..	..	..	..	..	..	..	62	69	62	63	[j]64.8
Warsaw	Maximum	91	91	93	92	94	84	90	93	89	85	81	82	85	86	79	82	83	89	93	94	94	86	93	88	89	94	95	97	95	95	88	89.4
	Minimum	69	70	74	74	73	68	67	73	70	64	65	54	58	63	68	63	61	68	74	77	75	68	61	55	51	61	60	58	68	75	74	66.4
Northwest Plateau.																																	
Chillicothe §§	Maximum	87	91	96	92	94	84	85	92	77	81	79	81	81	81	75	79	81	90	92	96	95	87	92	87	86	92	92	93	94	93	80	87.3
	Minimum	64	65	68	74	73	69	64	65	63	54	51	49	52	56	58	61	58	63	67	73	74	66	64	60	61	64	68	65	67	68	67	63.6
Grant City	Maximum	80	88	91	90	91	85	85	91	84	73	80	80	81	88	76	79	78	87	92	95	94	88	81	86	87	96	91	89	90	93	88	86.5
	Minimum	63	66	74	79	68	69	62	70	61	58	57	52	59	58	61	57	56	64	72	72	74	66	64	57	61	67	65	64	70	73	61	61.6
Kansas City	Maximum	83	91	95	93	94	82	87	94	78	79	78	82	79	86	78	78	80	87	93	95	95	84	92	83	89	92	95	94	92	93	80	87.1
	Minimum	68	73	77	78	69	69	69	75	61	59	64	61	64	64	66	66	63	68	75	78	69	67	70	65	68	71	75	73	76	75	69	69.2
Kidder §§	Maximum	80	84	95	91	99	86	87	91	75	81	80	84	83	82	77	80	81	88	96	99	93	90	92	87	90	95	96	92	93	94	80	87.9
	Minimum	64	65	65	67	71	75	62	65	62	54	60	51	57	55	59	60	56	56	66	71	73	65	65	59	61	64	67	66	70	71	65	63.6
Lexington §§	Maximum	84	89	92	95	94	88	90	92	84	80	81	83	82	84	78	81	79	87	92	94	92	85	92	86	91	93	97	96	93	92	84	88.1
	Minimum	66	68	75	77	74	69	65	73	66	58	64	54	61	60	66	64	61	66	66	76	75	67	65	64	63	66	71	69	70	71	73	67.3
Maryville	Maximum	80	90	94	92	94	87	86	93	79	78	82	79	82	80	79	80	78	86	93	95	93	87	83	85	89	100	92	92	90	96	80	86.9
	Minimum	63	67	73	75	70	68	63	72	61	51	59	53	59	59	61	56	57	65	74	71	75	65	65	59	62	68	65	64	71	72	59	61.7
Oregon	Maximum	81	87	91	91	91	82	84	89	78	77	75	80	78	83	79	75	77	84	90	92	90	83	88	81	86	94	89	89	87	93	84	84.8
	Minimum	64	68	69	75	67	66	63	72	62	54	60	54	60	61	63	59	58	64	74	73	75	65	65	59	64	66	68	67	72	73	58	65.1
St. Joseph	Maximum	82	92	95	93	94	85	87	94	75	79	79	83	82	86	80	79	81	88	93	96	94	87	91	86	90	97	93	96	93	95	80	87.9
	Minimum	66	70	78	78	70	68	66	68	60	57	61	57	64	62	67	62	61	67	76	78	71	68	68	61	65	70	72	71	75	77	66	67.7
Trenton	Maximum	81	85	90	89	92	80	81	87	74	78	75	80	76	75	71	74	75	84	88	90	90	84	85	79	83	90	88	84	88	90	81	82.8
	Minimum	66	68	71	73	74	70	65	68	61	56	62	56	60	59	65	60	59	66	72	74	75	68	67	61	63	68	69	67	70	73	66	66.3

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVIII. COLUMBIA, MO., SEPTEMBER, 1924. NO. 9.

GENERAL SUMMARY.

The outstanding feature of September, 1924, in Missouri, was persistent cool weather. Using terms applied by the general public, September apparently had changed places with October. The records show that only three other Septembers in 37 years have been as cool or cooler than the current month. Normal warmth obtained on not more than five or six days any where during the entire month. The last ten days were markedly cool; and frost, ranging from light to killing, occurred in all sections on the morning of the thirtieth. The injury to vegetation depended upon the topography more than latitude. In fact, lower temperatures were recorded in the southern than in the northern part of the State. On the whole, damage was light, and confined to low lands.

The month's weather was unfavorable, as a rule, for maturing the corn crop. The rainy periods were too close together, in connection with the prevailing lack of warmth. The bulk of the crop, however, was safe from ordinary frost by the end of the month. Preparations for fall seeding progressed favorably, save in a few of the excessively wet counties.

There was no flood damage. Winds caused some little local damage.

TEMPERATURE.

The monthly mean temperature for the State, based upon the records of 67 stations, was 64.0°, or about 5° below the normal for 36 years. It was the coolest September since 1918, and only two others, (1890, 1902) have been as cool or cooler since 1888. There were but few days during the month when the temperature was above normal. The extremes were 96° and 29°, on the 8th and 30th, respectively. Light frosts were recorded on the 28th, and 29th, and heavy frosts on the 30th; in some localities in low places killing frost, with thin ice occurred. The 1st, 7th, and 20th were the warmest days, the 11th also might be included. Afternoon temperatures on these dates were 90° or higher quite generally.

PRECIPITATION.

The average precipitation for the State, based upon the records of 104 stations, was 3.77 inches. The departure from the 56 years' average was plus 0.04, or practically normal. The precipitation was unevenly distributed, though there was ample for all present needs, and a bit too much in some localities. South of the Missouri River about 18 counties had an excess of moisture, while not more than 10 in the northern sections were much wetter than usual. The more or less general rains fell on the 1st, 7th, 11-12th, 15-16th, 19-20th, and 27th (1st and 19-20th probably the heaviest). The heaviest local monthly amount was 8.92 inches, at Fredericktown. The heaviest in any 24 consecutive hours was 3.72 inches, at Arcadia on the 20th.

WIND.

The prevailing winds were from the southeast. The total wind movement, based upon the records of 8 stations equipped with anemometers, was 6,062 miles, or an hourly velocity of 8.2 miles. This is about 5 per cent more than normal. There were a few local high winds, particularly on the 19th, and 21st.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well placed stations equipped with sunshine recorders reporting, was 244. This is about 66 per cent of the possible, and very near the normal for September. The same month in 1923, had 8 per cent less sunshine than the present month.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---3d, 20th, 23d, and 28th.

Frost, light.---28th, 29th, and 30th. Heavy, 30th. Killing, thin ice, in low places, 30th.

Hail.---Some small stones fell at Mexico on the 1st, Columbia and Liberty on the 8th, Kansas City 11th, and at Liberty on the 15th.

Halos, solar.---5th. 6th, 10th, 11th, 12th, 15th, 17th, and 26th.

Halos, lunar.---11th, and 17th.

Thunderstorms.---1st, 7th, 11th, 15th, 16th, 19th, 21st, 26th, and 27th.

SPECIAL STORM NOTES.

September 12.---Quite a violent wind occurred at Downing, Schuyler County, about 7:30 p. m., doing much damage to telephone wires, and trees.

September 18th.---During a thunderstorm about 5:30 p. m,, a barn owned by Franklin Lollar, 8 miles southeast of Cameron, Clinton County, was struck by lightning and burned. One horse was killed and six injured. Other stock was saved. About 25 tons of hay, 2700 bushels of wheat, farming machinery, etc., were destroyed. Loss above $8,000. Insurance about $2,000.

September 19th.---A strong wind crossed northeastward through Reynolds and Iron counties about 6 p. m. Apparently the storm had some of the characteristics of the tornado. The path was a few hundred yards wide. One reliable observer said there was a funnel-shaped cloud, but was not lower than tops of trees when seen. It dropped to the ground in spots. The greatest damage was done at Annapolis, Iron County, where "thirty to forty houses were partly wrecked or damaged." Strong winds were felt also at the towns of Leadanna, Hogan, and Ellington. Estimated damage put at $30,000, mostly at or near Annapolis.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.05	88	72	238	64	4,844	6.7	32	nw.	7
Hannibal	30.06	86	..	...	..	5,558	7.7	30	sw.	21
Kansas City	30.03	80	63	293	79	6,760	9.4	38	w.	7
St. Joseph	30.02	87	64	245	66	5,371	7.5	41	nw.	21
St. Louis	30.05	84	66	203	54	8,209	11.4	50	se.	19
Springfield	30 05	83	67	254	68	6,838	9.5	33	nw.	1
Cairo, Ill	30.04	83	68	...	..	6,003	8.3	30	n.	29
Keokuk, Iowa	30.06	84	70	230	62	4,915	6.8	36	w.	21

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COMPARATIVE DATA FOR SEPTEMBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	65.2	−3.7	97	28	1.11	−2.56	......	0	4	....	....	....
1889	64.7	−4.2	94	31	4.66	+0.99	......	0	11	....	....	....
1890	63.7	−5.2	98	34	3.98	+0.31	......	0	9	....	....	....
1891	70.6	+1.7	104	30	0.63	−3.04	......	0	6	....	....	....
1892	67.8	−1.1	97	32	2.39	−1.26	3.00	0	4	19	6	5
1893	69.9	+1.0	107	26	3.92	+0.25	5.20	0	6	17	7	6
1894	68.5	−0.4	101	34	4.93	+1.26	3.07	0	5	13	11	6
1895	71.8	+2.9	104	25	2.45	−1.22	6.21	0	4	19	8	3
1896	65.0	−3.9	101	28	4.17	+0.50	4.40	0	10	11	10	9
1897	71.3	+5.4	105	27	0.74	−2.93	2.13	0	2	23	5	2
1898	70.9	+2.0	103	30	6.74	+3.07	6.10	0	9	15	9	6
1899	67.4	−1.5	108	16	2.04	−1.63	3.01	0	4	20	6	4
1900	71.1	+2.2	100	29	4.81	+1.14	3.79	0	10	13	10	7
1901	68.9	0.0	103	27	2.31	−1.36	2.80	0	6	18	8	4
1902	63.2	−5.7	95	30	4.78	+1.11	6.55	0	10	15	6	9
1903	66.4	−2.5	98	32	4.41	+0.74	6.77	0	8	17	6	7
1904	69.6	+0.7	96	34	3.85	+0.18	2.46	0	3	16	8	6
1905	69.6	+0.7	98	41	7.67	+4.00	7.90	0	10	15	6	9
1906	71.9	+3.0	98	36	4.15	+0.48	4.28	0	11	15	8	7
1907	68.9	0.0	101	31	1.93	−1.74	2.25	0	6	18	7	5
1908	71.6	+2.7	99	28	1.80	−1.87	2.68	0	4	18	8	4
1909	68.7	−0.2	105	28	4.62	+0.95	4.48	0	8	18	6	6
1910	69.5	+0.6	97	31	5.53	+1.91	4.63	0	10	14	6	10
1911	73.7	+4.6	105	39	7.13	+3.46	7.75	0	11	13	7	10
1912	68.6	−0.3	105	27	3.06	−0.61	3.61	0	9	17	5	8
1913	69.4	+0.5	109	27	4.63	+0.79	4.08	0	9	13	7	10
1914	69.6	+0.5	99	35	6 27	+2.52	9.22	0	9	15	8	7
1915	70.6	+1.5	98	34	5.25	+1.51	5.91	0	7	16	7	7
1916	67.8	−1.5	101	27	2.94	+0.86	2.80	0	6	19	7	4
1917	67.9	−1.2	101	33	2.78	−1.09	4.13	0	5	19	6	5
1918	62.3	−6.7	96	29	4.73	+0.77	6.61	0	7	17	6	7
1919	71.4	+2.7	104	38	3.29	−0 54	4.93	0	5	20	6	4
1920	70.0	+1.4	100	31	4.81	+0.92	4.10	0	9	17	7	6
1921	73.4	+4.7	104	34	7.03	+3.15	5.45	0	13	13	9	8
1922	71.7	+2.6	107	34	3.31	−0.57	5.36	0	5	21	5	4
1923	68.7	−0.3	98	33	4.59	+0.86	5.26	0	11	12	9	9
1924	64.0	−5.0	96	29	3.77	+0.04	3.72	0	8	14	8	8
....	......	....	.....	.....	.....	....	......	....	....	....	....	....

Climatological Data for September, 1924.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	45	64.2	− 2.5	92	11	33	30	42	4.99	+0.60	1.70	0	12	17	0	13	se.	O. K. Benecke
Clifton Hill	Randolph	731	25	63.2	− 5.7	88	11	31	30	38	3.55	−1.31	1.40	0	10	12	7	11	......	Dr. A. J. Bradsher
Columbia	Boone	748	34	62.7	− 5.5	90	11	33	30	32	4.99	+2.14	2.59	0	10	13	7	10	se.	U. S. Weather Bureau
Downing	Schuyler	878	3	61.2	......	85	4	32	30	32	4.03	−0.68	1.86	0	12	14	7	9	n.	E. E. St. Clair
Fayette	Howard	661	44	62.2[b]	− 6.1	87	20	32	30	40	3.51	−1.32	1.32	0	9	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	36	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	Westminster College
Gorin	Scotland	700	37	....	......	..	..	..	..	..	2.50	−1.79	0.89	0	9	11	9	10	nw.	J. W. Pulliam
Hannibal	Marion	534	32	62.3	− 5.4	87	20	33	30	35	2.02	−1.54	0.55	0	10	16	5	9	n.	U. S. Weather Bureau
Jefferson City	Cole	557	36	64.0	− 5.1	90	20	37	30	37	3.90	+0.62	1.40	0	12	17	11	2	n.	Miss Emma Swift
Kirksville	Adair	969	35	61.6	− 4.4	86	20	31	30	36	1.85	−2.46	0.94	0	4	15	2	13	n.	Prof. J. S. Stokes
Louisiana	Pike	469	30	63.6	− 4.3	95	1	29	30	42	2.07	−1.88	0.65	0	9	19	5	6	e.	J. T. Farrell
Macon	Macon	875	25	62.8	− 5.5	87	20	33	30	35	3.36	−0.85	1.04	0	11	16	7	7	sw.	W. C. Brown
Mexico	Audrain	800	35	62.8	− 5.8	91	1	32	30	43	4.05	−0.63	1.51	0	12	16	3	11	e.	Mrs. Abbie Snoddy
Palmyra	Marion	652	25	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	....
St. Catharine	Linn	800	13	62.2	− 5.6	85	11	30	30	33	4.16	+0.06	1.45	0	11	13	10	7	se.	L. D. Baker
St. Charles	St. Charles	456	36	64.4	− 3.5	90	20	34	30	37	4.42	+1.14	1.42	0	6	11	8	11	n.	L. C. Saeger
St. Louis (1)	St. Louis City	717	50	65.0	− 5.1	89	21	40	30	34	1.97	−0.94	0.45	0	6	12	9	9	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	12	65.0	− 5.2	90	21	40	30	34	2.89	−1.75	0.79	0	6	12	10	8	se.	St. Louis University
Shelbina	Shelby	779	31	....	......	..	..	..	..	..	2.79	−1.19	0.68	0	10	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	26	65.2	− 3.9	87	20	30	30	39	2.92	−1.27	1.00	0	9	10	15	5	s.	Frank Hall
Unionville	Putnam	1,062	31	61.7	− 5.5	85	7†	30	30	34	2.10	−2.51	1.20	0	7	13	5	12	nw.	Geo. W. Davis
Warrenton	Warren	816	42	64.2	− 4.6	91	1	33	30	33	3.34	−0.70	0.60	0	10	12	12	6	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	52	61.4	− 6.1	84	20	36	30	33	1.70	−2.27	0.48	0	7	13	7	10	e.	U. S. Weather Bureau
Section means and	extremes	.....	..	63.1	− 5.0	95	1	29	30	43	3.20	−0.88	2.59	0	9	14	7	9	n.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	28	71.6	− 1.8	96	8	41	30	37	3.20	+0.10	1.55	0	7	20	5	5	n.	H. E. Averill
Doniphan	Ripley	344	20	65.4	− 5.4	89	21	34	30	36	2.10	−1.54	0.57	0	8	16	8	6	nw.	W.W. Martin
Jackson	Cape Girardeau	428	33	65.6	− 4.3	93	20	34	30	36	3.08	−0.47	1.13	0	11	7	8	15	n.	John G. Putz
Marble Hill	Bollinger	470	29	65.6	− 4.8	90	21	38	30	45	1.86	−1.77	0.52	0	6	12	8	10	n.	R.A. DeWitt
Parma	New Madrid	281	3	....	......	..	..	..	..	..	2.37	.	0.58	0	7	..	..	..	......	J.E. Pearce
Patton (near)	Bollinger	500	15	....	......	..	..	..	..	..	3.87	−0.66	2.03	0	4	..	..	..	.....	George F. Ellis.
Poplar Bluff††	Butler	339	20	66.2	− 5.1	90	20†	31	30	44	1.82	−1.76	0.78	0	5	19	0	11	w.	J. H. Wolpers
Vanduser	Scott	304	23	....	......	..	..	..	..	..	2.93	+0.07	0.94	0	7	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	66.4	− 5.1	88	21	41	30	28	2.84	+0.37	0.88	0	8	12	11	7	n.	U. S. Weather Bureau
Section means and	extremes	....	..	66.8	− 4.4	96	8	31	30	45	2.67	−0.71	2.03	0	7	14	7	9	n.	
Ozark Plateau.																				
Arcadia	Iron	926	43	60.0	− 7.6	82	20†	33	30	35	5.64	+2.00	3.72	0	9	18	2	10	s.	Arcadia College
Birchtree	Shannon	1,000	29	64.3[a]	− 5.2	89	21	35	30	31	2.01	−1.58	0.65	0	7	15	9	6	se.	V. H. Kirkendall
Bolivar	Polk	1,071	30	65.0	− 4.6	88	20	36	30	31	3.86	−0.24	1.58	0	7	17	7	6	nw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	25	....	......	88	11	..	..	..	5.10	+1.48	2.70	0	7	18[c]	3[c]	6[c]	e.	H. E. Dean
Eldon	Miller	934	28	63.4[e]	− 5.9	90	13†	33	30	42	1.65	−2.15	0.53	0	5	8	13	9	n.	E. H. Shepherd
Farmington	St. Francois	918	13	62.8	− 6.5	88	1	34	30	36	4.54	+1.32	2.30	0	10	12	12	6	ne.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	63.3	− 6.2	88	7	34	30	34	5.39	+1.13	1.88	0	9	14	8	8	se.	A. C. Leach
Goodland	Iron	1,000	30	63.4	− 3.9	86	7†	30	30	38	3.99	+0.26	2.00	0	9	15	5	10	s.	F. M. Adams
Greenville	Wayne	381	2	64.0	......	89	21	32	30	39	3.35	....	0.80	0	6	18	8	4	s.	A. M. Rhodes
Hollister	Taney	735	37	64.8	− 6.8	94	7	33	30	44	5.10	+1.39	1.60	0	4	20	6	4	se.	Mrs. W. P. Chapmann
Koshkonong	Oregon	958	23	65.4	− 5.5	87	21	37	30	31	3.73	+0.34	1.94	0	9	13	5	12	ne.	R. M. Hitt
Lebanon	Laclede	1,265	36	63.4	− 6.1	87	20†	30	30	41	4.70	+0.61	2.36	0	11	18	7	5	s.	Thomas E. Mulcare
Lockwood	Dade	1,078	18	63.8	− 7.5	92	1	36	30	30	3.39	−0.61	1.65	0	5	18[a]	7[a]	4[a]	sw.	C. S. Crow
Mountain Grove	Wright	1,463	28	63.2	− 5.2	85	7	33	30	36	3.83	−0.21	1.37	0	9	14	8	8	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	36	65.4	− 4.9	88	1	32	30	36	5.18	+0.96	2.25	0	8	21	6	3	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	24	64.4	− 3.6	89	7	35	30	35	3.73	−0.11	2.50	0	7	17	6	7	n.	Prof. Elmo G. Harris
Seligman	Barry	1,542	22	65.4[c]	− 3.4	88	7	35	30	32	5.48	+1.36	2.76	0	8	17[a]	8[a]	4[a]	e.	Floyd E. Fawver
Seymour	Webster	1,642	18	62.0	− 6.6	88	7	30	30	38	4.58	0.00	2.05	0	8	16	8	6	ne.	Ira H. Hailey
Springfield	Greene	1,350	36	63.8	− 5.1	86	7	39	30	29	4.12	+0.36	2.23	0	12	17	9	4	se.	U. S. Weather Bureau
Section means and	extremes	....	..	63.8	− 5.6	94	7	30	30	44	4.18	−0.35	3.72	0	8	16	7	7	se.	
Southwest Plain.																				
Amoret	....	.....	..	65.2	− 3.5	91	11	32	30	37	5.17	+1.27	1.35	0	8	15	13	2	se.	Andrew Rood
Appleton City	St. Clair	853	30	65.4	− 4.9	88	20	38	30	33	6.88	+3.21	1.53	0	9	12	17	1	se.	W. G. Bigelow
Clinton	Henry	765	31	69.4[m]	− 0.8	95	20	40	30	37	3.81	−0.01	1.00	0	7	9[m]	3[m]	5[m]	se.	A. E. Derwent, M. D
Harrisonville	Cass	904	47	63.7	− 4.6	90	12	37	30	38	4.20	−0.16	1.29	0	12	11	2	17	nw.	John H. Patterson
Lamar	Barton	980	37	65.0	− 5.6	86	11	35	30	35	4.89	+0.65	2.30	0	9	14	11	5	se.	Jesse A. Mann
Lamonte	Pettis	867	23	64.8	− 5.3	94	12	32	30	45	3.79	−0.71	1.00	0	9	11	13	6	se.	J. E. Wheeler
Marshall	Saline	779	35	66.0[b]	− 2.3	93	11	35	30	45	4.24	−0.64	1.25	0	8	9[e]	13[e]	5[e]	nw.	Dr. W. H. Black
Nevada	Vernon	862	31	65.0	− 4.1	88	20	34	30	31	4.15	−0.01	1.75	0	8	15	9	6	s.	George A. Kaupp
Warrensburg	Johnson	878	37	67.0	− 3.1	94	11†	38	30	39	3.44	−0.15	1.11	0	9	13	12	5	e.	E. A. Markey.
Warsaw	Benton	687	24	65.1	− 4.9	91	11	32	30	35	4.34	+0.02	2.60	0	7	14	12	4	w.	Everett Martin
Section means and	extremes	.....	..	65.7	− 3.9	95	20	32	30	45	4.49	+0.35	2.60	0	9	13	11	6	se.	
Northwest Plateau.																				
Avalon	Livingston	730	34	64.0	− 5.6	90	11	35	30	35	4.45	−0.61	1.40	0	6	14	13	3	nw.	F. G. Ashbaugh
Bethany	Harrison	916	32	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	Owen Ross
Chillicothe	Livingston	779	15	62.3	− 7.3	91	11	31	30	42	5.34	−0.40	2.00	0	9	13	13	4	e.	Wm. J. Olenhouse
Conception	Nodaway	980	35	62.8	− 4.4	90	7	38	29†	33	3.97	+0.12	2.47	0	6	13	10	7	ne.	Fr. Adelhelm Hess
Edgerton	Platte	856	4	64.3[g]	......	90	2†	31	30	45	6.39	+3.11	2.25	0	9	23[b]	2[b]	3[b]	w.	Fred L. Stiff
Grant City	Worth	1,134	20	62.7	− 4.3	89	7	32	30	37	2.71	−1.28	1.95	0	5	12[a]	11[a]	7[a]	se.	B. F. Locke
Kansas City	Jackson	963	35	65.0	− 3.9	90	11	42	30	37	4.68	+0.92	1.13	0	7	12	13	5	s	U. S. Weather Bureau
Kidder	Caldwell	1,020	31	62.0	− 5.7	91	7†	32	30	42	4.97	+0.73	1.58	0	10	20	0	10	se.	Linn Terry
Lexington	Lafayette	688	39	64.8	− 3.7	91	11	35	30	33	5.63	+1.19	1.70	0	10	13	12	5	n.	Edwin G. Loomis
Liberty	Clay	859	34	65.4	− 4.0	91	1†	31	30	37	3.77	−0.67	1.04	0	9	17	6	7	se.	Rev. Philip Nathans
Maryville	Nodaway	1,169	31	62.6[a]	− 2.8	89	7	34	30	36	1.55	−2.66	0.80	0	9	17	2	11	nw.	J. R. Brink
Oregon	Holt	1,048	68	61.1	− 5.9	88	7	37	29	32	4.12	+0.68	1.89	0	6	12	10	8	nw.	Tom Curry
St. Joseph	Buchanan	967	16	63.4	− 5.5	91	7	35	30	38	5.78	+1.19	2.36	0	10	11	10	6	se.	U. S. Weather Bureau
Tarkio	Atchison	916	21	60.6	− 6.0	87	7	32	29†	36	1.79	−1.71	1.21	0	4	12	7	11	se.	Albert Volker
Trenton	Grundy	822	28	61.4	− 6.0	81	4†	35	30	26	2.67	−1.59	1.10	0	7	18	5	7	ne.	W. H. Estes
Section means and	extremes	.....	..	63.0	− 5.0	91	1†	31	30	45	4.15	−0.07	2.47	0	8	15	8	7	se.	
State means and	extremes	.....	..	64.0	− 5.0	96	8	29	30	45	3.77	+0.04	3.73	0	8	14	8	8	se.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b], represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for September, 1924.

Stations.	Drainage-basins.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Northeast Plain.																																	
Boonville‖	Missouri		.34						.70				.46		.23		2.40				.12								.30				4.55
Brunswick‖	Grand	.02	.75					.08	.35				1.02		.10	.05	1.70				10		.54					.03	.25				4.99
Clifton Hill	Chariton	.29					.02		.19				.86		.17	.05	1.40			.11		.12						.34					3.55
Columbia***	Missouri	2.54					.02	.13				T.	.20		.14	.18	.95			.34		.03						.46					4.99
Downing	Mississippi	.37					.05	.02	.94			.05	1.86			.02	.09			.35	.02	.02						.24					4.03
Fayette‖‖	Missouri	1.32					.03	.09					.29		.14		1.25			.14		.05						T.	.20				3.51
Fulton	....do	.70							.10			.35	.10		.11	1.10				.80								.46					3.72
Gorin	Mississippi	.62					.03		.14				.89				.02			.54	.01	.02						.23					2.50
Hannibal***	....do	.55					.02	.03	T.		.11	.21	.08		.02	T.	.14			.43		T.						.43					2.02
Hermann‖	Missouri	.03	.78						.04			.10	.13			.11	.44	.28		.04	.63		.32						.28				3.18
Jefferson City‖	....do	.46	.50					.06			.05		.15			.30	1.40	.12		.08	.17		.10						.51				3.90
Kirksville	Mississippi	.34										.03	.94															.54					1.85
Louisiana	....do	.65	.05				.03					.23	.04		.07		.35			.30								.35					2.07
Macon‖	Chariton		.50					.03	.16			T.	.83		.10		1.04	.05		.12	.14		.06						.33				3.36
Mexico‖	Mississippi	.11	1.51				T.	T.	.20			.01	.12		.17	.01	.73	.07		.10	.50	T.							.52				4.05
Milan‖	Grand	T.	.30				.32		.08				1.15				T.				.10					.08			.15				2.18
Pacific‖	Meramec	.27	.17									.03	.07				.23	.40		.01	.62	T.	.35						.16				2.31
Palmyra‖	Mississippi																																....
St. Catharine	Grand	.26					.05	.14				.13	1.44		.09	T.	1.45			.16	.02	.23						.19					4.16
St. Charles	Missouri	1.15										1.42	T.				.63			.40		.60							.22				4.42
St Louis (1)***	Mississippi	.45					T.					.24	T.		T.		.39		T	.20		.45						.24	T.				1.97
St. Louis (2)	....do	.59					T.					.79	T.		T.		.45		T.	.33		.23						.50					2.89
Shelbina ‖‖	....do		.60					.01	.14			.11	.33		.16		.68	.02			.41								.33				2.79
Steffenville	....do	1.00					.05	T.	.42			.05	.25		.03		.02			.40								.70					2.92
Union‖	Meramec	.04	.72									.04					.30	.52		.04	1.75		.14						.16				3.71
Unionville	Chariton	.15					.10	.05					1.20				.05			.35								.20					2.10
Valley Park‖	Meramec	.29	.45					T.	T.			.05	.28			.03	.25	.32		.04	.25		.35						.29				2.60
Warrenton	Mississippi	.60	.05									.28	.15		T.		.58			.47	.34	.55						.09	.23				3.34
Keokuk, Ia.***	....do	.36					T.	.17	T.		T.	.06	.10				.07		T.	.48		T.						.46					1.70
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi		.38											.16				.28		.28	.21		.36					.04	.12				1.83
Caruthersville	....do	.25	.45						T				.40	.25			T.		T.	.15	.15	T.	1.55					T.					3.20
Doniphan	Black	.22							T.				.09				.25	.30	.25	.57		.37							.05				2.10
Jackson	Mississippi	.55											.07				.04	.23	.27	.02	1.13	.31	.10					.08	.28				3.08
Leeper ‖	Black																																....
Marble Hill	Mississippi	.50											.12				.12		.52	.10			.50										1.86
New Madrid‖	....do		.13								.01			.31				.02	.09	.23	.06		.55					.02	.25				1.67
Parma	St. Francis	.37											.15						.32	.37	.43		.58					.15					2.37
Patton (near)	Mississippi																		.25	2.03		1.51						.08					3.87
Poplar Bluff	Black	.33											T.			T.		.22	.78	.04		.45											1.82
Vanduser	Mississippi		.35										.22					.54	.94		.30	.45						.13					2.93
Cairo, Ill.***	....do	.61	T.				T.		T.				.16	T.			.21	.18	.22	.88		.35						.23					2.84
Ozark Plateau.																																	
Annapolis‖	St. Francis							.11											.19	1.29							.28						1.87
Arcadia‖	....do		.56						T.				T.	.11			.17	.08	.06	.26	3.72		.32						.36				5.64
Birchtree	Black	.65	.17										.15				.07		.12	.55		.30											2.01
Bolivar‖	Osage	.80											.20				.65		.56	1.58		.04						.03					3.86
Dean	Neosho		1.05					T.	.04				.26						.11	2.70								.93		.01			5.10
De Soto‖‖	Mississippi	T.										T.	T.		T.		.17				2.34	.56						.19					3.26
Eldon	Missouri	.53											* *	.25				.03				.48						.36					1.65
Farmington	St. Francis		.11				T.		T				.18				.14	.32	.10	.42	2.30	.52					T.	.15	.30				4.54
Fredericktown‖‖	....do		.16					.11				.05			.72			.35	.42	.91	3.74		.86			.73		.07	.80				8.92
Galena‖‖	White	1.16	.85																	1.12	2.00	2.00							.65				7.78
Gano	Meramec	1.52	.13										T.				.27		.16	.67	1.88	.31						.23	.22				5.39
Goodland	Black		.62										.10				.30		.14	.10	2.00	.32						.13	.28				3.99
Greenville	St. Francis	.35																.50	.45	.75		.80							.50				3.35
Hollister	White	1.30	1.10																		1.60							1.10					5.10
Jerome ‖	Gasconade	.20	1.38						T.								.50	.55	.10	.08	1.77		.50						.35				5.43
Koshkonong	Black	1.94	.21										.15						.26	.54	.03	.44				.03			.13				3.73
Lebanon ‖	Osage	.35	.40						.04				.04				.40	.08	.20	.26	2.36		.18						.39				4.70
Lockwood	....do	T.	.33					T.								T.			.45	1.65		.28						.68					3.39
Mountain Grove‖	White	.13	.05					T.					T.		T.		.09		1.02	1.37	.27	.38				T.		.38	.14				3.83
Neosho	Neosho	.41	.94					T.	.03				.23			T.			.06	2.25		.30						.96		T.			5.18
Rolla	Meramec	.11									.04					.17	.23			2.50		.37						.31					3.73
Seligman	Neosho	1.13	.66										.02						.11	2.76	.02	.28						.50					5.48
Seymour	White	.54	.10					T.					T.				.15		.50	2.05	.10	.21				T.		.93					4.58
Springfield***	....do	.76	.01					.18					.12			.05	.03	.01	.10	2.23	.01	.12						.50					4.12
Steelville‖	Meramec	.22	T.														.25	.14		.11	2.15		.13						.30				3.30
Tuscumbia ‖	Osage	.11	.71						.01			.01	.15			T.	.46			.10	.46		.39						.53				2.93
Willow Sprgs.‖‖ (near)	White	.84	.21					T.					.02		T.		.04		.33	.45	.85		.87						.21				3.82
Southwest Plain.																																	
Amoret		1.00						.12					1.35			.68			.03	1.29		.05						.65					5.17
Appleton City	Osage	1.53					T.	.27					1.03			.28	.72		.85	.76	T.	1.11						.33		T.			6.88
Clinton	....do	.22											.50				1.00		.02	.75		1.00						.32					3.81
Harrisonville‖	....do	.01	.42								.06		1.29		.05	.12	.86				.77	.10	.09					.38		.05			4.20
Joplin*	Neosho	1.68						.02				.21				T		.01	.12	2.83		.62						.77	T.				6.26
Lamar‖	....do	.11	.22										.20				T.		.24	.32	2.30		.85					.08	.57				4.89
Lamonte	Missouri	.10						.16					.85		.08	.70	.10			.30		1.00						.50					3.79
Marshall	....do	.14						T.	.35				.70		.23		1.25		.15			1.00						.42					4.24
Nevada	Osage	.20											.74			.28	.19		.19	1.75		.38						.42					4.15
Osceola‖‖	....do		.43										.22				1.17		.15	.26	.74	.10						.05	.40				3.52
Warrensburg	Missouri	.30							.23			T.	1.11		.24	.54				.30	.01	.20						.51					3.44
Warsaw	Osage	2.60											.30			T.	.30		.02	.70		.07						.35					4.34
Waverly ‖	Missouri	T.	.31				T.	T.	.34			T.	1.14		.10		3.70				.33	T.	.19					.10	.11	T.			6.32
Northwest Plateau.																																	
Albany‖‖	Grand						.05					.34					.40				.40							2.06					3.29
Avalon	....do	.75						.50				1.40		.20		1.40												.20					4.45
Bethany	....do																																....
Chillicothe ‖‖	....do		.39				T.	.05	.20			T.	2.00		.10		1.88		T.	T.	.09							.61	.02				5.34
Conception	Missouri	.23					.10	T.				.50		T.		T.	.08			.59		T.						2.47					3.97
Edgerton	....do		T.					.34			T.	2.25			.01	.57	2.02			.25	.02						.91		.02				6.39
Gallatin	Grand		20										1.20				1.30											1.00					3.70
Grant City	....do	.14					T.	T.	T.		T.	.27		T.		T.	.10		T.	.25	T.						T.	1.95					2.71
Kansas City***	Missouri	.48						.19		T.	T.	1.07		T	.43	.94			T.	.44		T.					T.	1.13	T.				4.68
Kidder ‖	Grand		.31				.07	.01	.94				1.48		.24		1.58				.10							1.12		.02			4.97
Lexington ‖	Missouri		.45						1.11				1.70		.27		1.70			.02		.15	.02					.20		.01			5.63
Liberty	....do	.41						.01	.42			.86		.02		1.04		02		.30							.69						3.77
Maryville	....do	.27	.12				.06					.01	.22		.01		.05				.01							.80					1.55
Oregon	....do	.20					T.	.15				.22					1.89			.16								1.80					4.42
St. Joseph***	....do	.33					T.	.03				.72		.07	.01	.87	1.26		T.	.13		T.					1.74	.62	T.				5.78
Tarkio	....do	.05										.33		T.		T.	.20											1.21					1.79
Trenton	Grand	.14					.02	.37			T.	1.10		T.		T.	.53			.14		T.						.37		T.			2.67

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for September, 1924.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	83	78	82	87	80	72	88	74	72	70	92	78	77	75	73	69	72	73	75	89	80	80	81	80	82	85	60	67	60	63	..	76.6
	Minimum	64	51	48	50	51	52	58	58	50	49	50	53	51	58	49	56	52	57	57	59	62	41	47	48	52	54	60	38	45	33	..	51.8
Columbia	Maximum	86	71	73	83	74	68	85	66	67	68	90	72	77	68	71	63	70	69	73	89	80	75	75	76	78	79	68	63	57	60	..	73.1
	Minimum	60	52	48	54	54	53	60	58	50	50	58	54	51	56	56	54	51	58	61	64	50	46	48	51	52	62	45	40	41	33	..	52.3
Fayette	Maximum	..	..	74	83	77	69	85	71	69	68	90	73	76	70	71	62	68	73	74	87	80	78	75	75	79	86	66	64	60	63	..	[b]73.8
	Minimum	..	..	46	49	52	52	55	56	48	49	50	52	49	54	51	56	50	50	56	60	62	43	45	41	50	59	62	45	45	32	..	[b]50.7
Hannibal	Maximum	85	70	75	83	72	67	82	68	65	60	78	72	74	72	75	64	70	73	73	87	84	75	75	75	80	80	70	62	56	59	..	72.7
	Minimum	59	53	48	52	54	53	62	59	51	50	52	55	53	56	52	56	51	55	60	64	49	46	46	49	52	61	48	40	39	33	..	51.9
Jefferson City §§	Maximum	84	69	77	84	75	85	88	65	72	73	89	73	80	67	75	64	70	70	71	90	79	80	80	80	79	80	72	66	59	65	..	75.4
	Minimum	70	54	50	50	51	52	57	56	52	50	52	54	50	51	53	56	52	56	56	57	65	45	47	50	50	55	61	43	46	37	..	52.6
Kirksville	Maximum	72	73	78	83	78	68	83	77	73	60	84	79	76	77	72	65	69	72	68	86	82	78	71	78	81	81	72	66	60	64	..	74.2
	Minimum	59	48	47	47	46	54	56	56	44	48	50	49	47	49	48	55	46	46	58	60	61	44	46	47	48	58	50	37	37	31	..	49.1
Louisiana	Maximum	95	79	76	80	76	72	85	83	70	64	78	78	76	75	77	68	70	72	72	87	90	85	75	76	82	82	74	66	60	56	..	76.0
	Minimum	66	53	47	48	55	48	60	58	48	46	52	54	50	55	54	54	47	48	60	64	62	43	43	40	42	60	52	42	58	29	..	51.3
Macon §§	Maximum	84	75	78	86	78	73	84	71	71	65	86	75	76	76	73	64	72	75	71	87	80	73	80	80	81	83	64	66	59	63	..	75.0
	Minimum	62	49	48	53	49	53	55	57	46	48	51	50	50	54	51	54	49	50	54	60	63	45	48	45	49	51	62	38	41	33	..	50.6
Mexico §§	Maximum	91	72	78	81	77	67	88	68	68	68	90	75	80	71	70	63	71	73	71	90	83	78	80	80	81	83	71	64	58	63	..	75.1
	Minimum	68	50	47	51	50	51	55	56	46	48	47	52	52	53	49	50	49	50	55	60	64	45	45	45	47	51	60	39	44	32	..	50.4
St. Catharine	Maximum	75	70	75	84	79	72	82	78	67	63	85	81	72	73	70	65	68	72	72	83	82	75	75	75	78	81	75	62	59	60	..	73.6
	Minimum	60	48	48	52	49	55	58	57	46	49	58	50	50	53	52	56	46	53	59	50	68	44	47	49	53	61	50	38	39	30	..	50.9
St. Louis (1)	Maximum	88	72	73	79	72	72	86	73	66	66	81	73	79	72	76	63	72	70	74	88	89	75	75	74	78	77	76	62	57	58	..	73.9
	Minimum	60	57	56	60	60	55	58	62	53	49	53	58	58	61	58	58	54	56	61	69	55	51	55	56	60	61	52	49	44	40	..	56.0
Unionville	Maximum	74	74	77	84	78	74	85	80	72	65	84	76	74	77	75	65	72	74	67	85	82	77	78	79	80	83	76	63	60	64	..	75.1
	Minimum	60	45	47	52	44	48	55	54	42	48	50	50	50	48	46	55	40	47	56	60	54	44	45	46	50	60	52	35	35	30	..	48.3
Warrenton	Maximum	91	71	76	81	75	71	87	77	67	69	85	81	78	74	76	70	71	73	73	89	87	75	76	78	79	79	75	61	58	58	..	75.4
	Minimum	67	52	48	55	54	51	58	59	49	46	52	54	53	54	54	56	49	54	58	64	66	46	60	49	53	59	56	42	43	33	..	53.1
Southeast Lowlands.																																	
Caruthersville	Maximum	88	83	86	83	86	83	94	96	86	82	93	93	72	88	90	90	86	72	86	93	93	82	84	83	74	75	83	73	68	78	..	84.1
	Minimum	73	63	59	56	61	56	58	60	56	52	56	64	63	56	58	58	61	62	66	63	73	55	53	55	64	62	66	53	46	41	..	59.0
Doniphan	Maximum	86	80	77	81	78	75	88	83	75	73	87	80	78	81	81	79	76	70	79	88	89	73	75	76	73	78	81	75	62	62	..	78.0
	Minimum	68	62	48	46	57	45	47	61	48	44	51	62	57	49	49	51	56	57	62	69	68	47	45	45	52	55	64	50	39	34	..	52.9
Jackson	Maximum	89	82	77	81	76	75	85	82	73	73	86	79	81	82	83	74	79	72	81	93	91	77	79	78	78	82	76	74	63	59	..	78.7
	Minimum	67	58	50	46	58	43	53	62	51	43	50	60	52	47	48	50	54	55	62	63	69	46	45	45	51	58	63	50	40	34	..	52.4
Poplar Bluff	Maximum	85	82	82	88	84	75	89	88	81	76	88	73	81	87	82	80	80	68	80	90	90	81	82	81	72	76	82	74	67	69	..	80.4
	Minimum	61	50	49	58	47	48	62	50	43	49	61	58	52	52	51	55	55	63	63	73	46	48	47	52	49	54	52	41	36	31	..	51.9
Cairo, Ill.	Maximum	82	73	73	79	73	72	83	82	71	71	84	76	70	78	78	77	76	66	81	87	88	72	74	76	74	73	77	64	59	58	..	74.9
	Minimum	70	61	57	58	59	55	58	64	54	50	56	63	60	56	57	55	59	59	64	74	63	54	55	54	61	63	58	53	44	41	..	57.8
Ozark Plateau.																																	
Arcadia §§	Maximum	81	68	70	78	70	64	80	69	69	65	79	62	76	75	77	62	72	63	70	82	82	73	73	70	78	70	73	61	54	60	..	70.9
	Minimum	64	55	45	43	47	43	48	56	50	40	44	53	48	49	46	50	52	53	53	63	70	44	43	42	45	50	60	46	38	33	..	49.1
Birchtree	Maximum	83	74	75	80	76	84	76	..	74	70	83	75	80	80	80	71	74	66	72	85	89	70	72	76	75	75	73	62	63	62	..	[a]75.0
	Minimum	61	57	50	49	60	59	62	..	50	47	55	61	52	55	52	56	55	57	61	67	65	45	50	49	49	60	50	46	40	35	..	[a]53.6
Eldon	Maximum	88	75	80	84	79	75	88	74	74	75	..	..	90	75	70	..	72	..	..	90	87	78	79	80	84	82	71	67	60	65	..	[c]77.7
	Minimum	57	53	45	49	52	52	58	55	47	44	..	..	48	62	56	..	50	..	..	60	58	44	44	45	44	56	42	36	41	33	..	[c]49.2
Farmington	Maximum	88	73	73	78	72	70	84	71	67	69	84	67	78	72	76	68	76	65	72	87	87	70	73	73	71	72	80	65	63	57	..	73.4
	Minimum	70	55	49	44	58	44	52	60	60	42	48	59	50	53	56	53	52	54	57	65	67	46	44	45	49	49	65	49	41	34	..	52.3
Hollister	Maximum	90	84	76	84	82	80	94	90	80	82	89	78	80	84	86	84	82	76	78	74	78	80	81	80	81	81	72	68	65	66	..	80.2
	Minimum	60	58	49	49	48	49	50	56	46	48	48	52	54	56	58	45	44	56	58	60	58	40	42	42	44	45	52	40	40	33	..	49.3
Koshkonong	Maximum	78	75	75	79	77	75	85	78	74	74	86	74	80	80	79	76	75	69	72	84	87	72	77	77	69	75	75	64	62	61	..	75.5
	Minimum	67	59	52	53	58	52	54	62	53	47	56	61	57	55	53	58	55	58	63	69	63	47	53	51	56	60	55	48	43	37	..	55.2
Lebanon §§	Maximum	88	77	82	86	77	77	87	67	76	74	86	75	81	81	83	75	71	67	69	87	87	76	79	79	76	80	72	65	60	65	..	76.8
	Minimum	65	55	45	45	50	49	53	57	48	47	48	55	46	46	50	50	54	54	55	62	66	40	41	48	49	51	61	38	40	30	..	49.9
Mountain Grove §§	Maximum	81	76	76	82	76	72	85	77	74	69	82	73	81	81	77	72	73	65	70	83	84	74	77	74	66	75	71	64	59	64	..	74.4
	Minimum	62	56	46	48	58	49	49	60	48	47	54	56	48	50	53	58	54	54	60	69	61	42	47	47	55	60	52	43	40	33	..	52.0
Neosho	Maximum	88	82	78	83	83	81	86	83	77	81	85	83	79	81	83	82	74	73	78	82	83	76	79	78	81	82	75	68	63	67	..	79.1
	Minimum	66	57	46	48	57	50	62	61	46	54	59	54	44	45	55	55	56	59	62	61	63	40	43	44	47	59	53	36	40	32	..	51.8
Rolla	Maximum	84	75	79	83	78	73	89	80	75	72	87	75	81	77	77	67	73	65	72	86	84	75	79	78	71	76	75	65	58	61	..	75.7
	Minimum	68	56	51	48	50	50	59	61	49	46	56	55	50	50	53	56	54	57	60	65	64	45	50	49	52	62	52	42	45	35	..	53.0
Springfield	Maximum	81	69	73	79	72	72	86	77	71	70	82	69	77	77	76	74	68	67	70	83	82	71	74	73	73	75	65	61	57	62	..	72.9
	Minimum	63	56	55	56	57	55	58	55	51	51	61	52	54	57	57	60	57	58	62	68	53	48	54	54	56	62	47	42	45	39	..	54.8
Southwest Plain.																																	
Amoret	Maximum	90	76	78	85	80	81	86	73	78	80	91	81	80	77	78	75	71	72	78	88	83	78	79	78	81	82	78	61	63	65	..	78.2
	Minimum	64	56	46	48	56	51	65	54	50	51	56	51	48	53	54	58	55	57	68	56	61	41	46	47	49	66	54	36	41	32	..	52.3
Appleton City	Maximum	87	73	83	83	78	78	82	70	72	77	87	80	79	74	77	71	69	68	75	88	81	79	78	77	80	81	73	63	61	64	..	76.3
	Minimum	66	52	52	59	56	55	64	57	54	52	64	52	52	56	57	60	55	58	60	61	60	46	49	52	54	52	53	45	44	38	..	54.5
Clinton	Maximum	92	80	82	..	..	..	..	..	..	..	..	..	..	..	..	..	78	77	77	95	88	84	84	87	90	87	85	70	70	74	..	[m]82.4
	Minimum	62	65	61	..	..	..	..	..	..	..	..	..	..	..	..	..	65	59	60	60	64	48	50	50	55	62	52	46	55	40	..	[m]56.3
Harrisonville §§	Maximum	87	70	78	88	78	78	87	73	72	76	90	77	80	68	69	73	68	67	74	86	77	80	76	75	78	80	57	66	62	66	..	75.2
	Minimum	65	50	50	53	52	53	58	55	53	52	52	51	51	51	55	57	56	56	56	56	62	45	45	53	53	54	55	40	41	37	..	52.2
Lamar §§	Maximum	88	72	79	84	77	83	85	69	78	81	86	70	79	83	85	76	70	72	78	85	79	77	80	80	82	83	61	66	62	66	..	77.2
	Minimum	67	56	49	50	54	53	56	58	49	50	55	53	47	48	56	60	54	56	61	62	67	45	46	48	51	53	59	40	42	35	..	52.7
Lamonte	Maximum	87	79	82	88	82	81	89	71	77	76	75	94	90	82	75	75	75	72	76	91	79	80	84	82	84	85	70	69	62	68	..	79.3
	Minimum	59	50	45	45	50	54	62	55	50	49	48	49	45	51	55	54	53	57	59	60	54	42	46	50	52	52	46	38	43	32	..	50.2
Marshall	Maximum	85	78	87	..	79	76	87	80	70	73	93	82	80	78	72	66	71	74	88	88	81	88	78	78	80	82	74	..	69	64	..	[b]78.6
	Minimum	65	47	62	..	50	52	59	52	50	47	59	52	50	55	55	55	51	60	69	59	60	43	51	48	57	60	52	..	40	35	..	[b]53.4
Nevada	Maximum	81	72	80	81	75	81	83	77	77	79	87	81	77	75	77	69	68	72	75	88	82	68	70	70	80	81	75	68	60	62	..	75.7
	Minimum	66	52	49	55	55	55	65	64	60	53	63	53	49	53	55	61	55	58	60	61	63	44	46	53	54	62	52	40	40	34	..	54.3
Warrensburg	Maximum	87	75	81	88	83	82	90	80	74	76	94	90	80	81	76	74	71	80	76	91	85	80	80	79	83	94	73	68	62	67	..	80.0
	Minimum	64	51	46	53	60	56	64	55	50	54	62	51	50	50	56	60	55	57	59	61	63	43	47	54	55	61	51	38	54	38	..	53.9
Warsaw	Maximum	86	78	77	84	78	78	84	68	73	76	91	82	80	78	77	74	72	70	76	90	81	78	78	79	81	82	75	65	61	65	..	77.2
	Minimum	67	52	48	49	54	53	62	57	50	51	60	53	48	56	55	59	55	59	60	59	66	43	48	47	50	62	55	38	41	32	..	53.0
Northwest Plateau.																																	
Chillicothe §§	Maximum	74	72	78	86	79	74	87	73	69	70	91	74	77	74	70	63	70	73	74	87	80	86	78	79	81	84	57	66	60	64	..	75.0
	Minimum	61	48	44	51	48	54	56	57	46	48	52	50	47	52	49	56	47	50	56	59	60	44	41	47	49	53	54	36	40	31	..	49.6
Grant City	Maximum	66	74	77	86	80	75	89	79	81	73	86	77	77	79	70	65	69	71	66	74	82	80	79	78	80	83	76	66	61	65	..	75.5
	Minimum	60	52	47	55	46	57	58	56	57	46	52	46	47	46	49	55	45	50	60	52	53	43	46	52	53	60	50	35	36	32	..	49.9
Kansas City	Maximum	80	70	78	86	75	79	89	74	68	75	90	74	72	69	68	67	66	68	75	88	79	78	76	76	79	81	68	63	59	65	..	74.5
	Minimum	59	53	58	61	56	62	66	59	55	54	53	52	56	54	58	58	53	57	60	63	56	53	56	56	56	62	51	46	44	42	..	55.6
Kidder §§	Maximum	72	75	80	90	81	77	91	77	70	70	91	77	77	76	68	62	71	70	73	87	81	81	79	78	79	82	58	66	63	67	..	75.6
	Minimum	60	46	48	53	47	50	55	56	46	47	49	47	47	50	52	52	46	46	50	55	55	44	45	48	49	52	52	37	37	32	..	48.4
Lexington §§	Maximum	81	75	78	87	78	77	88	81	79	73	91	80	76	72	70	70	71	69	73	88	81	80	77	76	79	81	74	66	62	62	..	76.5
	Minimum	63	52	47	55	52	57	63	57	52	50	61	52	52	54	56	58	54	56	59	59	56	47	46	51	52	61	54	39	43	35	..	53.1
Maryville	Maximum	67	75	79	87	81	80	89	79	69	67	80	76	70	77	67	61	67	70	66	83	82	80	78	77	78	81	76	76	65	..	..	[a]75.3
	Minimum	57	49	50	54	48	56	63	56	48	51	53	46	47	46	50	55	44	48	59	59	53	44	48	51	53	60	48	35	35	34	..	50.0
Oregon	Maximum	68	69	74	85	74	76	88	71	71	75	57	71	69	69	62	59	66	69	68	82	78	73	72	73	75	80	75	61	58	62	..	71.0
	Minimum	58	49	51	61	52	59	56	57	49	57	52	45	49	47	49	55	46	52	58	55	53	46	50	51	54	61	50	39	37	38	..	51.2
St. Joseph	Maximum	71	73	79	89	78	79	91	76	71	75	90	76	73	73	67	63	69	71	73	88	79	77	78	78	79	82	57	61	62	65	..	74.8
	Minimum	54	50	51	60	52	60	61	58	52	53	52	50	50	52	53	54	49	57	60	58	50	50	46	55	56	56	45	41	39	35	..	52.0
Trenton	Maximum	71	67	71	81	78	68	81	71	65	64	80	70	69	69	67	63	67	69	68	79	80	70	71	71	74	79	73	66	56	57	..	70.3
	Minimum	58	49	50	55	51	58	60	58	49	51	56	51	50	52	52	54	46	53	60	61	65	48	57	50	52	62	52	40	40	35	..	52.5

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

DEC 3 1924

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXVIII. Columbia, Mo., October, 1924. No. 10.

GENERAL SUMMARY.

"There is nothing so fine as October weather in Missouri" is a common saying. The current month was no exception to the general rule. Though the opening days of this October were a bit chilly and wet, yet by the 6th or 7th,, warm, sunshiny weather had set in and prevailed, with but slight exceptions, to the end of the month. It was the driest October since 1917, and the warmest, probably with the exception of 1920, since 1900.

The month, as a whole, was ideal for practically all outdoor pursuits. Seasonal farm work, house building, and highway making continued with hardly an interruption. The persistently warm weather, though, somewhat adversely affected heavy clothing, and fuel trades. On the other hand the trade in automobiles and accessories was very active.

Farm operations were put in good condition for winter quarters. Wheat was up and looking fine. Soil moisture was sufficient for needs, save in the southeastern lowlands where rain was needed. Corn had dried out well and cribbing was underway.

The killing frosts that occurred during the fourth week were not early enough to find any crops subject to injury.

TEMPERATURE.

The monthly mean temperature for the State, 67 stations reporting, was 61.8°, or 4.4° higher than the 36-year average. It was the warmest October since 1900, although the one of 1920 was nearly as warm. Most of the first week was a bit cooler than usual, but from about the 7th to the 20th, and the last four or five days were markedly and persistently warm, the daily excess ranging from 6° to 13°. Afternoon temperatures approximated real summer heat on several days, the maximum being 92°. The only cool snap occurred during the period from the 23d to the 26th, when minimum temperatures ranged from about the freezing value down in the low twenties, the lowest recorded being 21°. This was the first killing frost period, but all crops had matured.

PRECIPITATION.

The average precipitation for the State, 104 stations reporting, was 1.22 inches. The departure from the 56 years' average was minus 1.53 inches. It was the driest October since 1917. Practically all of the month's precipitation fell on the the days from about the 3d to the 10th, and the last two days of the month, the average for the State being only four days. Hardly any rain at all fell in the southeastern lowlands, and not more than one-third of the usual amount fell in the Ozark region. The greatest monthly amount was 4.17 inches, at Stover, Morgan County, and none was recorded at Annapolis, Iron County, Greenville, Wayne County, and Birchtree, Shannon County. The plains, a strip of country running from the northeast to the southwest part, embracing the western end of the Ozarks, received from one to more than two inches of water, the remainder of the State less than one inch.

WIND.

The prevailing winds were from the south. The average monthly movement, 8 stations equipped with anemometers reporting, was 5,774 miles, an hourly velocity of 7.8 miles. A strong steady gale, 35 to 55 miles an hour, prevailed on the 30th, but no damage was reported.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine for the State, based upon the records of 6 well placed stations equipped with sunshine recorders, was 273. This is about 79 per cent of the possible, and about 13 per cent above normal, and 20 per cent more than the same month in 1923. There were 22 clear and only 4 cloudy days.

MISCELLANEOUS PHENOMENA.

Fogs, dense.—4th, 7th, 10th, 17th, and 20th.

Frost, heavy.—22d.

Frost, killing.—First general of the season (outside of St. Louis and Kansas City) on the 23d. Thin ice each night up to 26th.

Hail.—Small hail fell at Clifton Hill, Eldon, and Lockwood on the 3d, and at Louisiana on the 4th.

Thunderstorms.—3d, 4th. 5th, 6th, 7th, 9th, 28th, and 30th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.15	80	58	289	83	4,863	6.5	44	sw.	30
Hannibal	30.16	81	..	...	..	5,267	7.1	34	w.	30
Kansas City	30.10	69	50	298	86	6,462	8.7	48	sw.	30
St. Joseph	30.08	76	53	263	76	5,395	7.3	30	w.	30
St. Louis	30.16	72	46	236	68	8,289	11.1	54	s.	30
Springfield	30 14	71	48	287	82	6,749	9.1	36	s.	30
Cairo, Ill	30.17	84	58	...	..	4,596	6.2	28	s.	30
Keokuk, Iowa	30.15	79	56	272	79	4,572	6.1	35	s.	30

COMPARATIVE DATA FOR OCTOBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	53.6	−3.5	89	24	2.65	+0.21	......	....	7	....	....	....
1889	53.8	−3.3	91	27	2.50	+0.06	......	....	6	....	....	....
1890	54.8	−2.3	91	22	2.24	−0.20	.....	....	6	....	....	....
1891	55.7	−1.4	98	19	1.11	−1.33	.....	....	3	....	....	....
1892	57.5	+0.6	95	16	2.28	−0.16	2.40	0	5	16	7	8
1893	56.7	−0.4	95	16	0.99	−1.45	2.81	....	10	20	8	3
1894	57.6	+0.5	94	18	1.74	+0.70	3.52	T.	6	17	8	6
1895	54.2	−5.9	89	15	0.35	−2.09	1.20	T.	2	21	6	4
1896	54.1	−3.0	90	19	2.48	+0.04	2.68	0	5	19	6	6
1897	62.5	+5.4	99	23	0.71	−1.73	1.70	0	3	22	6	3
1898	53.5	−3.6	94	19	4.23	+1.79	4.51	1.4	8	11	7	13
1899	62.4	+5.3	100	24	2.93	+0.49	2.53	0	5	20	6	5
1900	62.4	+5.3	92	25	4.18	+1.74	4.04	0	7	17	7	7
1901	60.1	+3.0	96	24	1.64	−0.80	2.98	0	6	18	8	5
1902	59.5	+2.4	88	28	2.52	+0.08	2.69	0	5	21	5	5
1903	57.2	+0.1	90	19	2.85	+0.41	3.80	0	6	19	6	6
1904	57.6	+0.5	90	19	0.90	−1.54	2.46	0	3	20	7	4
1905	55.1	−2.0	90	20	4.64	+2.20	7.24	0.3	5	17	6	8
1906	56.3	−0.8	94	17	0.87	−1.57	1.50	0	10	15	7	9
1907	56 7	−0.4	94	18	2.90	+0.46	3.46	0	7	19	5	7
1908	56.3	−0.8	92	21	2.74	+0.30	4.90	0.8	5	18	6	7
1909	57.2	+0.1	96	20	2.77	+0.33	2.57	T	6	19	5	7
1910	59.4	+2.3	94	15	2.71	+0.27	5.50	0	5	22	4	5
1911	56.9	−0.2	96	25	3.30	+0 86	5.12	0.2	8	11	7	13
1912	59.1	+2.0	97	21	3.83	+1.39	5.12	0.7	6	20	5	6
1913	54.7	−2.5	93	11	4.46	+1.94	2 80	3.3	9	15	6	10
1914	59.2	+2.0	88	19	4.54	+2.04	5.40	0	7	14	6	11
1915	59.8	+2.9	95	22	1.19	−1.45	1.97	0	3	23	5	3
1916	58.0	+0.7	95	20	2.17	−0.54	3.90	0	6	18	5	8
1917	49.8	−7.4	93	12	1.16	−1.49	2.00	0.2	6	16	8	7
1918	60.6	+3.5	95	28	3.37	+0.71	5.61	0	7	14	6	11
1919	58.4	+1.4	98	17	6.74	+3.92	4.91	0	11	10	7	14
1920	61.3	+4.3	93	18	2.89	+0.25	2.45	T	7	17	6	8
1921	57.9	+0.8	92	24	2.19	−0.40	2.32	0	5	21	5	5
1922	59.9	+2.4	97	18	2.00	−0.77	3.00	0	5	20	5	6
1923	53.0	−4.4	89	17	3.39	+0.64	2.76	0.1	9	15	5	11
1924	61.8	+4.4	92	21	1.22	−1.53	2.73	0	4	22	5	4
....	......	......	....	....	......	....	.....	....	....	....	....	....

Climatological Data for October, 1924.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	45	61.0	+ 5.8	87	11	30	23	41	2.61	−0.12	0.65	0	6	21	0	10	se.	O. K. Benecke
Clifton Hill	Randolph	731	25	61.2	+ 4.0	85	12†	29	23	42	2.68	+0.56	1.30	0	5	21	6	4	......	Dr. A. J. Bradsher
Columbia	Boone	748	34	61.4	+ 4.8	83	17	30	23	37	2.17	−0.25	1.55	0	6	22	4	5	se.	U. S. Weather Bureau
Downing	Schuyler	878	3	60.8	......	84	18†	28	23	39	1.21	−0.99	0.55	0	5	25	2	4	s.	E. E. St. Clair
Fayette	Howard	661	44	60.0^b	+ 3.3	84	17†	27	23†	45	1.55	−0.93	1.13	0	3	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	36	59.6	+ 1.9	83	10†	26	23†	39	3.26	+0.51	2.61	..	6	24	5	2	s.	Westminster College
Gorin	Scotland	700	37	....	......	..	..	..	..	..	2.70	+0.32	1.01	0	6	25	0	6	se.	J. W. Pulliam
Hannibal	Marion	534	32	60.8	+ 4.8	86	18	30	23	40	2.80	+1.16	1.42	0	7	22	5	4	s.	U. S. Weather Bureau
Jefferson City	Cole	557	36	61.0	+ 4.3	84	10†	30	23	36	1.90	−0.69	0.75	0	4	25	6	0	s.	Miss Emma Swift
Kirksville	Adair	969	35	61.0	+ 6.3	85	16	29	22	36	1.05	−1.68	0.56	0	3	23	1	7	s.	Prof. J. S. Stokes
Louisiana	Pike	469	30	59.0	+ 2.7	86	18	25	23†	48	2.94	+0.31	1.50	0	5	27	1	3	e.	J. T. Farrell
Macon	Macon	875	25	61 4	+ 4.6	86	11	30	22	43	2.85	+0.12	1.70	0	5	21	5	5	sw.	W. C. Brown
Mexico	Audrain	800	35	60.4	+ 4.0	87	17†	27	23	47	2.66	+0.28	1.50	0	4	25	0	6	s.	Mrs. Abbie Snoddy
Palmyra	Marion	652	25	....	......	..	..	..	..	..	...	......	....	..	..	..	..	..	......	....
St. Catharine	Linn	800	13	60.6	+ 4.7	82	11	28	23	38	1.57	−0.39	0.59	0	6	22	7	2	s.	L. D. Baker
St. Charles	St. Charles	456	36	63.8	+ 5.7	88	17†	31	24	40	1.22	−1.45	0.52	0	4	22	4	5	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	50	64.6	+ 6.2	85	18	37	22	27	0.30	−2.11	0.19	0	4	22	6	3	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	12	63.9	+ 5.0	84	18	38	22†	27	0.49	−3.30	0.30	0	4	20	7	4	se.	St. Louis University
Shelbina	Shelby	779	31	....	......	..	..	..	..	..	1.98	−0.74	0.85	0	5	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	26	63.5	+ 5.8	89	16†	26	23	44	1.48	−0.64	0.70	0	5	16	11	4	s.	Frank Hall
Unionville	Putnam	1,062	31	60.6	+ 5.2	84	17†	27	22	38	1.40	−1.06	0.45	0	5	18	5	8	s.	Geo. W. Davis
Warrenton	Warren	816	42	64.2	+ 8.6	85	10†	30	23	38	2.54	−0.32	1.70	0	4	21	8	2	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	52	61.4	+ 6.0	85	18	33	23	35	1.66	−0.83	0.67	0	5	21	3	7	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	61.5	+ 4.9	89	16†	25	23†	48	1.96	−0.56	2.61	0	5	22	4	5	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	28	68.0	+ 6.3	92	8†	37	24	41	0.75	−2.21	0.65	0	2	29	2	0	e.	H. E. Averill
Doniphan	Ripley	344	20	61.2	+ 2.8	85	6†	26	24	41	0.14	−2.91	0.10	0	2	21	9	1	n.	W.W. Martin
Jackson	Cape Girardeau	428	33	62.4	+ 4.4	89	10†	25	24	44	0.18	−3.04	0.18	0	1	13	8	10	s.	John G. Putz
Marble Hill	Bollinger	470	29	62.4	+ 4.4	89	8†	24	24	48	0.40	−2.25	0.15	0	3	24	6	1	n.	R.A. DeWitt
Parma	New Madrid	281	3	....	......	..	..	..	..	..	0.10	......	0.10	0	1	..	..	..	......	J.E. Pearce
Patton (near)	Bollinger	500	15	....	......	..	..	..	..	..	0.45	−2.72	0.45	0	1	..	..	..	.....	George F. Ellis.
Poplar Bluff††	Butler	329	20	63.6	+ 3.3	91	19	31	22	49	0.10	−3.10	0.10	0	1	30	0	1	s.	J. H. Wolpers
Vanduser	Scott	304	23	....	......	..	..	..	..	..	0.09	−2.51	0.09	0	1	..	..		......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	65.3	+ 4.9	86	19	38	23	28	0.14	−2.49	0.11	0	2	19	9	3	n.	U. S. Weather Bureau
Section means and	extremes	....	..	63.9	+ 4.6	92	8†	24	24	48	0.28	−2 69	0.65	0	2	21	7	3	n.	
Ozark Plateau.																				
Arcadia	Iron	926	43	57.0	+ 0.9	83	13	24	24	42	0.88	−2.19	0.65	0	3	26	3	2	s.	Arcadia College
Birchtree	Shannon	1,000	29	63.8^e	+ 5.6	85	6†	31	24	37	0.00	−2.58	0.00	0	0	29	2	0	se.	V. H. Kirkendall
Bolivar	Polk	1,071	30	62.8	+ 4.3	85	15	30	23†	37	1.47	−1.84	0.65	0	5	21	7	3	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	25	....	......	88	11	..	..	.	1.55	−1.94	0.93	0	3	27	1	3	ne.	H. E. Dean
Eldon	Miller	934	28	61.8	+ 4.1	87	10†	25	27	52	1.34	−1.69	1.08	0	2	20	8	3	s.	E. H. Shepherd
Farmington	St. Francois	918	13	61.0	+ 4.6	85	8	28	22	39	0.82	−2.07	0 58	0	3	21	9	1	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	61.4	+ 3.4	83	8†	30	23†	36	0.52	−3.36	0.29	0	3	27	3	1	se.	A. C. Leach
Goodland	Iron	1,000	30	59.2	+ 3.4	84	10†	24	23†	44	1.51	−1.71	1.27	0	2	26	3	2	s.	F. M. Adams
Greenville	Wayne	381	2	60.7	......	87	18	23	24	49	0.00	... .	0.00	0	0	28	3	0	s.	A. M. Rhodes
Hollister	Taney	735	37	60.0	− 0.4	88	6†	21	26	54	0.20	−2.63	0.20	0	1	26	4	1	sw.	Mrs. W. P. Chapmann
Koshkonong	Oregon	958	23	63.8	+ 3.8	84	7	34	23†	31	0.26	−2.65	0.16	0	2	19	4	8	ne.	R. M. Hitt
Lebanon	Laclede	1,265	36	62.2	+ 4.2	87	18	24	23	52	0.55	−2.71	0.31	0	3	22	7	2	e.	Thomas E. Mulcare
Lockwood	Dade	1,078	18	63.2	+ 4.6	82	7†	31	23	33	1.83	−1.62	0.68	0	5	25	1	5	sw.	C. S. Crow
Mountain Grove	Wright	1,463	23	62.0	+ 4.4	85	18	29	25	42	0.51	−2.54	0.25	0	3	26	5	0	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	36	61.8	+ 2.6	85	17	26	23†	45	1.38	−2.01	0.85	0	3	25	6	0	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	24	63.8	+ 7.9	85	10†	32	24	36	1.13	−1.82	0.55	0	4	24	4	3	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	22	62.2^b	+ 3.9	84	6	32	23	40	1 95	−0.99	1.28	0	3	24^b	4^b	1^b	se.	Floyd E. Fawver
Seymour	Webster	1,612	18	60.2	+ 2.7	83	19	26	25	43	0.73	−2.28	0.35	0	3	26	3	2	s	Ira H. Hailey
Springfield	Greene	1,350	36	63.7	+ 5.5	81	19	36	22	29	0.85	−1.95	0.59	0	3	25	3	3	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	61.7	+ 3.4	88	6†	21	26	54	0.92	−2.14	1.28	0	3	25	4	2	s.	
Southwest Plain.																				
Amoret	Bates	831	..	61.2	+ 4.1	84	10†	25	25	46	1.85	−0.67	0.98	0	4	21^a	7^a	2^a	s.	Andrew Rood
Appleton City	St. Clair	853	30	63.7	+ 4.6	84	11†	34	23†	36	1.83	−0.51	1.24	0	5	22	9	0	se.	W. G. Bigelow
Clinton	Henry	765	31	65.8	+ 7.2	90	8†	32	26	40	2.84	+0.03	1.35	0	5	24	6	1	sw.	A. E. Derwent, M. D
Harrisonville	Cass	904	47	61.6	+ 5.6	83	15†	36	22†	32	2.06	−0.53	0.80	0	7	12	1	18	se.	John H. Patterson
Lamar	Barton	980	37	62.2	+ 3.3	87	18	31	25	42	1.96	−1.17	0.59	0	6	25	2	4	sw.	Jesse A. Mann
Lamonte	Pettis	867	23	63.1	+ 5.1	89	17	29	23	46	2.29	−0.04	0.75	0	6	22	7	2	se.	J. E. Wheeler
Marshall	Saline	779	35	61.9^a	+ 5.3	87	17	30	24	42	1.80	−0 78	0.73	0	4	20^a	7^a	3^a	ne.	Dr. W. H. Black
Nevada	Vernon	862	31	62.0	+ 4.7	84	11	30	26	37	1.32	−1.76	0.52	0	5	24	5	2	s.	George A. Kaupp
Warrensburg	Johnson	878	37	65.0	+ 6.9	89	1†	30	23	44	1.13	−1.42	0.54	0	5	15	12	4	e.	E. A. Markey.
Warsaw	Benton	687	24	61.8	+ 2.7	85	17†	26	23†	45	2.81	−0.50	1.20	0	4	24	4	3	s.	Everett Martin
Section means and	extremes	.....	..	62.8	+ 5.0	90	8†	25	25	46	1.99	−0.74	1.35	0	5	21	6	4	s.	
Northwest Plateau.																				
Avalon	Livingston	730	34	62.0	+ 3.5	85	16	31	23	38	1.45	−1.50	0.60	0	5	26	4	1	sw.	F. G. Ashbaugh
Bethany	Harrison	916	32	....	....	..		..	..		....	......	....	..	..	.	..	..	......	Owen Ross
Chillicothe	Livingston	779	15	58.8	+ 0.6	85	11	27	23†	44	1.49	−1.96	0.72	0	5	23	6	2	e.	Wm. J. Olenhouse
Conception	Nodaway	980	35	60.7	+ 5.2	84	17	32	22	35	0.51	−1.94	0.35	0	3	17	10	4	sw	Fr. Adelhelm Hess
Edgerton	Platte	856	4	61.9^c		85	16	29	24	45	0.80	−1.45	0.31	0	5	27	0	4	s	Fred L. Stiff
Grant City	Worth	1,134	20	59.7	+ 4.3	85	16	31	23	44	0.61	−2.11	0.41	0	2	19	10	2	se.	B. F. Locke
Kansas City	Jackson	963	35	63.6	+ 5.9	83	16	39	23	30	1.01	−1.20	0.56	0	6	24	4	3	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	31	60.2	+ 3.8	87	16	30	22†	48	1.28	−1.34	0.88	0	4	22	7	2	se.	Linn Terry
Lexington	Lafayette	688	39	61.8	+ 4.3	84	16†	30	23	38	2.22	−0.35	0.90	0	7	21	8	2	s.	Edwin G. Loomis
Liberty	Clay	859	34	60.8	+ 3.3	85	11	28	24	42	1.35	−1.10	0.45	0	5	24	3	4	nw.	Rev. Philip Nathans
Maryville	Nodaway	1,169	34	60.5	+ 7.2	86	16	33	23	36	0 07	−2.60	0.05	0	2	20	0	11	s.	J. R. Brink
Oregon	Holt	1,048	68	59.7	+ 4.8	78	16†	34	22†	39	0.58	−1.98	0.35	0	5	20	9	2	s.	Tom Curry
St. Joseph	Buchanan	967	16	62.0	+ 5.3	83	16	33	23	33	0.71	−1.84	0.40	0	5	23	3	5	se.	U. S. Weather Bureau
Tarkio	Atchison	916	21	59 8	+ 4.3	92	11	26	23	41	0.27	−2.30	0.20	0	4	19	7	5	sw.	Albert Volker
Trenton	Grundy	822	28	58.9	+ 2.6	78	11	31	23	27	1.26	−1.30	0.35	0	6	21	6	4	s.	W. H. Estes
Section means and	extremes	.....	..	60.7	+ 4.2	92	11	26	23	48	0.97	−1.64	0 90	0	5	22	5	4	s.	
State means and	extremes	.....	..	61.8	+ 4.4	92	8†	21	26	54	1.22	−1.53	2.73	0	4	22	5	4	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for October, 1924.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri				.70			1.10	.02		.15																					.40	2.37
Brunswick‖	Grand				.28			.55	.65	.40	.38																					.35	2.61
Clifton Hill	Chariton			1.30			.05	1.01		.06																						.26	2.68
Columbia***	Missouri			.20	.01		1.02	.53		.08																					.33		2.17
Downing	Mississippi			.25	.10		T.	.17	.14																							.55	1.21
Fayette‖‖	Missouri						1.13	.03		T.											T.										.39		1.55
Fulton	....do			.23	.02		.03	2.61	.02																							.35	3.26
Gorin	Mississippi			.71			.54	.02	1.01	.01																					.41		2.70
Hannibal***	....do			.83		T.	1.00	.43	.16	T.																			.03		.34	.01	2.80
Hermann‖	Missouri				.49			1.10	.22																							.30	2.11
Jefferson City‖	....do				.72			.75	.08																							.35	1.90
Kirksville	Mississippi						.15	.34																								.56	1.05
Louisiana	....do			.01	.48		.60	1.50																					T.			.35	2.94
Macon ‖	Chariton				.74			1.70	.04	T.	.07																					.30	2.85
Mexico ‖	Mississippi				.70			1.50	.06																							.40	2.66
Milan‖	Grand				.35			.18	.40	.25	T.																					.10	1.28
Pacific‖	Meramec							.10	.07																							.30	0.47
Palmyra‖	Mississippi																																....
St. Catharine	Grand			.25			.02	.59	.04	.37											T.											.30	1.57
St. Charles	Missouri				.12			.52	.21																							.37	1.22
St Louis (1)***	Mississippi			.01				.10	T.																						.06	.13	0.30
St. Louis (2)	....do				.01			.30																							.03	.15	0.49
Shelbina ‖‖	....do				.75			.85	.05		.03																					.30	1.98
Steffenville	....do			.70	.28		T.		.07	.03																						.40	1.48
Union‖	Meramec				.02				.14																							.30	0.46
Unionville	Chariton			.35			.20	.15		.45																						.25	1.40
Valley Park‖‖	Meramec				.19			.19	.04																							.21	0.63
Warrenton	Mississippi				.40		T.	1.70	.22																							.22	2.54
Keokuk, Ia.***	....do			.67			.02	.34	.21	T.																			T.		.42		1.66
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi																															.15	0.15
Caruthersville	....do				.65																											.10	0.75
Doniphan	Black				.04		T.																									.10	0.14
Jackson	Mississippi																															.18	0.18
Leeper ‖	Black																																....
Marble Hill	Mississippi				.10																										.15	.15	0.40
New Madrid‖	....do																															.10	0.10
Parma	St. Francis																															.10	0.10
Patton (near)	Mississippi																															.45	0.45
Poplar Bluff	Black																														.10		0.10
Vanduser	Mississippi																														.09		0.09
Cairo, Ill.***	....do				.03																											.11	0.14
Ozark Plateau.																																	
Annapolis‖	St. Francis																																....
Arcadia ‖	....do				.65	.03																										.20	0.88
Birchtree	Black																																0.00
Bolivar‖	Osage			.12			.18	.04		.65																					.48		1.47
Dean	Neosho			T.		.93				.37																						.25	1.55
De Soto‖‖	Mississippi				.18																											.14	0.32
Eldon	Missouri			1.08																											.26		1.34
Farmington	St. Francis				.58	.02																										.22	0.82
Fredericktown‖‖	....do											.50					.92								.26				.82				2.50
Galena‖‖	White					.20				T																							0.20
Gano	Meramec				.29	.04																										.19	0.52
Goodland	Black				1.27																											.24	1.51
Greenville	St. Francis																																0.00
Hollister	White																														.20		0.20
Jerome ....‖	Gasconade				.15	.02																										.38	0.55
Koshkonong	Black				T.	.16																										.10	0.26
Lebanon ‖	Osage				.31	.04	T.																									.20	0.55
Lockwood	....do			.68		.26		.20		.43																						.26	1.83
Mountain Grove‖	White				T.	.20	.06																									.25	0.51
Neosho	Neosho			T.		.85				.37																						.16	1 38
Rolla	Meramec			.14		.04	T.	.55		T.																					.40		1.13
Seligman	Neosho					1.28				.47																						.20	1.95
Seymour	White			T.	.20	.35																										.18	0.73
Springfield***	....do			T		.59		T.		.01																					.25		0.85
Steelville‖ ‖	Meramec				.15																											.40	0.55
Tuscumbia ‖ ‖	Osage				53				.10																							.54	1.17
Willow Sprgs.‖‖ (near)	White				.54	.16	.07																									.32	1.09
Southwest Plain.																																	
Amoret	Osage			.43	.32		.98																								.12		1.85
Appleton City	....do			.24		.08		1.24		.11																						.16	1.83
Clinton	....do			1.35				1.00		.25	.02																					.22	2.84
Harrisonville‖	....do				.36	.20	.01	.80	.26	.22																						.21	2.06
Joplin*	Neosho					.30		T.		14																					.02		0.46
Lamar ‖	....do				.28	.50		.44		.02	.59																					.13	1.96
Lamonte	Missouri			.25	.05		.10	.54		.60																						.25	2.29
Marshall	....do			.56		T.	T.	.73		.26																						.25	1.80
Nevada	Osage			.34		.09		.52		.21																						.16	1.32
Osceola‖‖	....do				.88			.62		.19	.48																					.21	2.38
Warrensburg	Missouri			.54		.14	.05	T.		.20																						.20	1.13
Warsaw	Osage			.61		T		1.20		.80																						.20	2.81
Waverly ‖	Missouri				.27	T.		.91	.09	.29																						.38	1.94
Northwest Plateau.																																	
Albany‖‖	Grand							.27		.05																						.16	0.48
Avalon	....do			.25	.10			.60		.25																					.25		1.45
Bethany	....do																																....
Chillicothe ‖‖	....do				.35			.72	.05	.17												T.										.20	1.49
Conception	Missouri			T.			T.	.05		.11																					.35		0.51
Edgerton	....do			.06			.07	.22	T.	.31																					.14		0.80
Gallatin	Grand				.15			.30	.10	.20																						.20	0.95
Grant City	....do						T.	.20		T.				T.															T.		.41		0.61
Kansas City***	Missouri			.14	.01		.28	.36	T.	.07												T.									.15		1.01
Kidder ‖	Grand							.88	.08	.11																						.21	1.28
Lexington ‖	Missouri			.25	.27	.01		.90	.38	.28																						.13	2.22
Liberty	....do			.27			.31	.45	.05																						.27		1.35
Maryville	....do								.05																							.02	0.07
Oregon	....do			T.				.35	T.	.10			.03								.02										08		0.58
St. Joseph***	....do			.01			.35	.16	.02	.17																					T.		0.71
Tarkio	....do			.03					.02	.20																					.02		0.27
Trenton	Grand			.35			.13	.28	.02	.29																					.19		1.26

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for October, 1924.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	78	83	70	82	68	63	71	85	73	85	87	83	81	85	75	86	85	83	85	76	65	60	52	68	70	74	75	72	79	83	68	75.8
	Minimum	34	46	55	47	48	47	50	59	62	57	58	55	55	44	45	52	50	51	51	50	42	35	30	33	33	33	34	36	44	52	43	46.2
Columbia	Maximum	79	79	72	80	70	68	75	82	73	82	82	81	78	78	78	81	83	82	82	74	58	55	58	63	67	69	72	73	78	80	69	74.2
	Minimum	45	56	50	51	48	47	59	64	63	59	61	53	50	45	51	53	52	53	51	51	42	35	30	36	36	32	36	47	56	53	44	48.7
Fayette	Maximum	79	80	69	78	69	68	71	81	71	83	83	81	81	80	78	83	84	82	84	75	61	58	62	64	..	..	73	72	79	81	69	ᵇ75.1
	Minimum	38	49	55	42	49	44	50	59	63	54	54	52	47	42	46	48	47	47	41	46	46	33	27	27	27	..	..	27	45	59	40	ᵇ45.0
Hannibal	Maximum	77	80	76	79	71	62	73	78	75	81	84	81	77	79	78	83	84	86	84	71	58	55	56	63	68	72	73	73	77	81	69	74.3
	Minimum	40	56	52	50	48	46	55	63	63	58	57	50	49	45	45	55	51	55	51	52	41	34	30	31	32	32	34	38	53	54	46	47.3
Jefferson City §§	Maximum	80	80	80	80	70	68	78	82	76	84	84	82	80	82	82	81	83	70	82	75	59	56	58	62	67	69	72	74	78	79	69	74.9
	Minimum	40	44	54	49	51	50	55	62	62	60	58	52	48	50	56	49	51	52	52	50	43	35	30	31	32	31	34	37	43	58	43	47.2
Kirksville	Maximum	76	82	70	80	70	59	68	81	73	78	84	83	82	81	74	85	84	84	83	72	62	58	62	65	69	71	75	76	76	82	75	74.8
	Minimum	42	54	55	48	44	41	51	61	62	52	58	51	48	45	45	55	49	55	56	52	37	29	30	34	34	40	41	43	48	63	42	47.3
Louisiana	Maximum	76	80	75	80	75	67	72	74	76	75	84	82	84	80	80	80	85	86	85	76	66	58	60	65	73	72	78	76	78	79	72	75.8
	Minimum	34	48	50	54	53	42	55	56	55	53	52	44	42	40	40	42	46	48	45	48	38	28	25	25	30	27	30	33	35	38	48	42.1
Macon §§	Maximum	79	82	70	75	80	64	73	81	73	85	86	85	83	83	73	84	83	83	83	68	63	60	62	67	71	75	71	73	75	82	68	75.5
	Minimum	36	48	54	49	53	43	46	58	63	54	56	52	53	48	50	55	52	56	55	53	39	30	31	34	36	37	37	46	50	54	41	47.4
Mexico §§	Maximum	80	82	75	81	72	66	73	83	75	86	85	85	83	81	76	86	87	87	86	68	60	60	58	62	71	76	74	74	78	80	71	76.2
	Minimum	32	42	51	49	49	46	50	59	62	54	55	48	47	43	44	46	49	49	50	51	39	30	27	29	29	29	33	43	52	54	43	44.6
St. Catharine	Maximum	74	79	73	77	74	65	69	80	75	79	82	80	79	80	73	80	81	81	81	73	70	56	59	63	65	67	71	70	75	80	76	73.8
	Minimum	41	52	56	45	45	43	52	63	61	55	61	56	56	46	53	51	51	54	50	51	39	29	28	30	32	32	33	44	53	63	41	47.3
St. Louis(1)	Maximum	71	77	74	74	75	72	77	80	82	83	82	82	81	79	78	80	82	85	84	72	58	56	58	64	65	68	73	72	77	77	69	74.4
	Minimum	44	51	52	60	63	57	60	63	61	65	66	61	63	61	56	62	64	62	64	51	43	37	40	44	46	48	50	49	54	56	50	54.9
Unionville	Maximum	75	80	70	79	72	63	65	80	75	80	83	82	81	82	80	83	84	84	83	77	64	58	60	65	68	68	72	70	76	80	75	74.6
	Minimum	42	53	55	48	40	38	50	60	60	58	52	52	53	44	50	50	51	54	56	52	36	27	32	32	34	33	37	44	48	60	40	46.5
Warrenton	Maximum	76	80	76	80	73	78	75	81	79	85	85	83	84	80	78	82	85	85	85	72	75	67	60	70	74	75	74	74	78	79	74	77.5
	Minimum	38	49	51	53	61	52	58	61	62	61	60	54	56	51	50	59	53	59	58	58	37	31	30	40	43	46	43	45	54	63	44	51.0
Southeast Lowlands.																																	
Caruthersville	Maximum	77	86	84	79	83	90	91	92	90	90	89	90	90	90	89	90	89	92	90	89	75	63	61	73	76	80	80	79	82	82	76	83.5
	Minimum	40	47	56	65	66	65	65	65	63	51	60	52	52	55	54	54	53	55	53	52	56	40	39	37	40	52	39	42	49	61	54	52.6
Doniphan	Maximum	72	76	77	78	78	85	84	86	84	85	84	80	82	83	83	83	84	84	83	83	73	57	61	64	60	72	7	73	73	79	73	77.2
	Minimum	32	45	41	64	64	56	60	55	57	52	52	43	42	44	46	47	48	45	44	46	48	37	30	26	28	31	32	32	44	59	47	45.1
Jackson	Maximum	72	79	76	76	79	81	83	87	84	89	88	85	82	85	86	85	87	89	89	84	70	64	63	70	75	75	77	78	80	84	77	80.0
	Minimum	30	45	48	64	62	55	60	60	60	52	51	44	44	47	46	46	47	45	46	46	43	32	27	25	29	32	33	31	43	43	50	44.7
Poplar Bluff	Maximum	74	80	78	75	81	88	87	89	87	89	89	86	90	88	89	90	89	90	91	88	72	66	65	73	76	81	82	76	78	91	77	82.4
	Minimum	38	38	43	59	52	60	57	56	53	53	45	47	49	50	51	51	48	41	41	45	33	31	32	32	36	47	33	41	47	48	32	44.8
Cairo, Ill.	Maximum	68	76	76	72	81	82	82	85	83	84	83	82	84	83	82	82	83	81	86	82	61	56	59	64	71	72	75	74	77	79	70	76.7
	Minimum	44	51	55	65	66	63	64	64	64	60	60	54	56	57	57	57	58	56	58	56	45	38	38	39	43	44	47	46	52	63	52	53.9
Ozark Plateau.																																	
Arcadia §§	Maximum	68	71	70	67	71	75	75	78	79	79	77	77	83	78	78	77	79	80	82	76	56	53	57	61	67	67	72	69	71	73	72	72.2
	Minimum	33	40	45	47	61	53	54	55	55	51	50	42	41	43	45	45	46	45	44	44	40	29	26	24	25	28	30	30	31	49	44	41.8
Birchtree	Maximum	72	76	74	77	78	85	82	84	82	84	84	84	83	84	84	83	85	85	85	..	..	71	62	55	..	..	..	76	75	70	77	ᵉ78.3
	Minimum	40	46	50	50	57	50	57	61	61	58	58	50	56	47	50	52	54	52	51	..	..	35	31	31	..	..	..	45	50	45	43	ᵉ49.3
Eldon	Maximum	80	81	74	71	71	72	82	84	85	87	86	84	85	81	85	85	87	87	86	82	62	58	63	65	70	75	77	75	81	81	73	77.9
	Minimum	36	49	49	53	53	48	60	58	56	55	55	47	48	51	47	51	50	51	50	49	45	30	27	30	29	31	25	37	50	62	38	45.8
Farmington	Maximum	72	76	76	70	70	73	76	85	83	82	82	81	78	78	80	78	77	75	70	70	68	66	70	72	73	72	78	77	76	74	68	75.0
	Minimum	36	47	48	58	60	58	60	59	54	58	55	47	46	46	48	49	52	51	43	36	31	28	31	34	34	37	46	53	51	58	46	47.1
Hollister	Maximum	80	81	80	86	80	88	86	86	85	85	82	86	86	85	86	85	87	85	84	88	79	70	64	65	60	75	76	76	85	86	84	81.0
	Minimum	36	38	39	40	38	50	49	51	52	54	51	40	38	41	44	44	50	42	40	45	38	28	25	22	22	21	25	27	44	46	29	39.0
Koshkonong	Maximum	72	76	76	78	77	82	84	82	83	82	83	80	79	80	80	81	81	81	82	81	68	57	60	62	68	70	72	72	75	77	72	75.9
	Minimum	41	47	50	64	64	59	65	60	61	59	57	51	54	55	55	57	56	55	58	58	49	35	34	34	37	41	44	44	53	60	45	51.7
Lebanon §§	Maximum	76	77	72	81	68	82	83	81	81	85	85	84	83	84	85	84	86	87	86	80	62	57	76	67	72	75	75	79	82	82	69	78.3
	Minimum	31	46	49	53	53	55	56	59	59	58	59	47	47	48	48	49	49	51	56	45	43	30	24	27	33	34	35	41	48	54	39	46.0
Mountain Grove §§	Maximum	74	75	71	78	74	82	82	80	80	81	82	81	84	84	83	82	83	85	83	80	65	59	63	63	71	74	72	70	76	76	69	76.2
	Minimum	41	47	49	51	61	56	58	60	62	60	59	58	46	47	52	50	55	53	52	49	45	31	31	31	29	32	39	43	48	52	39	47.9
Neosho	Maximum	76	78	75	82	79	83	79	81	79	84	78	83	81	84	83	84	85	81	82	82	78	65	61	65	70	72	71	76	82	80	78	78.1
	Minimum	42	53	54	45	55	54	60	58	62	55	56	45	44	45	45	45	45	46	44	44	48	35	26	26	26	27	30	38	54	66	36	45.5
Rolla	Maximum	76	77	77	80	72	80	82	82	82	85	84	84	82	83	82	83	85	81	84	80	68	60	63	67	70	72	75	72	78	77	73	77.4
	Minimum	43	52	52	57	58	63	55	61	64	61	59	49	48	55	51	54	55	52	56	53	42	35	34	32	31	36	39	40	55	65	42	50.1
Springfield	Maximum	75	75	71	80	69	80	80	78	75	80	80	78	79	80	79	79	79	81	81	77	62	54	58	60	66	70	70	71	79	78	66	73.9
	Minimum	46	53	56	55	56	60	65	62	64	63	62	56	58	59	56	58	60	61	59	58	44	36	37	38	44	45	45	50	56	52	43	53.5
Southwest Plain.																																	
Amoret	Maximum	78	80	75	72	72	71	77	81	79	81	84	82	82	83	83	83	83	84	82	81	65	60	61	65	68	70	72	75	80	82	71	76.3
	Minimum	42	61	56	43	47	51	60	60	59	55	56	51	51	53	48	48	47	48	47	47	48	34	29	26	25	26	26	43	50	58	36	46.2
Appleton City	Maximum	78	80	69	80	74	73	80	80	76	83	84	82	80	80	83	82	84	84	83	80	70	57	59	64	68	70	71	75	82	82	76	76.4
	Minimum	44	50	58	49	51	51	62	63	62	58	59	55	51	56	51	52	53	56	53	53	48	39	34	34	43	44	38	46	55	67	40	51.0
Clinton	Maximum	83	83	86	87	85	86	88	90	82	80	85	95	90	90	84	87	90	85	81	85	80	65	61	72	72	72	74	76	82	82	72	81.7
	Minimum	45	52	57	52	50	51	61	62	64	59	58	55	51	55	50	52	50	52	52	53	46	35	34	34	33	32	40	41	56	57	57	49.9
Harrisonville §§	Maximum	77	77	62	78	70	68	70	79	78	81	81	81	81	78	83	82	83	83	82	81	62	59	58	63	68	69	70	73	78	80	70	74.4
	Minimum	37	48	51	50	45	46	50	60	60	58	58	56	58	57	55	56	55	56	53	55	46	36	36	36	36	37	41	42	49	54	38	48.9
Lamar §§	Maximum	78	79	72	83	62	79	79	82	79	85	86	84	82	85	84	84	87	85	85	81	65	59	62	67	66	73	72	76	81	82	70	77.2
	Minimum	37	49	54	49	50	51	60	60	61	59	58	51	49	51	51	51	50	51	49	49	49	37	32	32	31	31	32	35	48	57	41	47.3
Lamonte	Maximum	81	83	67	84	71	75	73	84	77	87	87	87	84	84	86	75	89	87	87	80	66	69	65	70	73	76	75	75	82	83	73	78.5
	Minimum	43	53	52	50	48	47	58	61	61	57	57	54	53	46	53	50	51	54	50	50	41	33	29	34	33	30	36	47	54	55	40	47.7
Marshall	Maximum	78	79	69	79	74	68	69	..	74	83	79	83	80	80	81	85	87	85	85	80	68	60	60	69	72	75	75	73	80	83	74	ᵃ76.2
	Minimum	45	50	52	47	47	62	60	..	62	58	55	50	62	45	50	50	50	50	50	50	42	34	31	30	31	33	31	40	50	62	47	ᵃ47.6
Nevada	Maximum	75	78	70	81	73	74	79	80	76	80	84	75	80	80	75	80	80	81	80	77	67	56	58	61	64	67	70	70	80	82	66	74.2
	Minimum	46	51	58	50	51	50	61	63	62	58	60	55	52	53	51	50	50	55	50	49	50	35	32	35	38	30	35	48	57	66	42	49.8
Warrensburg	Maximum	89	82	73	84	74	75	72	83	79	85	85	84	82	81	86	86	89	87	85	83	74	58	63	68	72	75	75	76	83	84	81	79.1
	Minimum	70	54	56	51	57	49	57	63	61	57	60	54	58	48	56	53	52	54	51	52	43	31	30	37	35	31	39	50	55	66	40	50.8
Warsaw	Maximum	78	81	71	82	79	74	81	83	75	84	81	83	78	83	81	84	85	85	81	81	73	58	62	67	70	68	74	71	83	82	80	77.8
	Minimum	45	39	55	44	51	48	62	60	62	55	55	19	50	46	48	47	46	48	48	47	46	34	26	27	27	26	29	36	55	68	42	45.8
Northwest Plateau.																																	
Chillicothe §§	Maximum	79	81	66	80	69	58	69	82	76	83	85	83	81	82	71	81	84	83	83	70	60	57	61	66	69	71	74	71	80	81	69	71.5
	Minimum	33	45	52	47	42	41	45	46	61	52	56	53	55	41	41	47	47	51	48	48	40	32	27	27	30	29	30	33	47	50	40	43.2
Grant City	Maximum	72	70	69	72	72	60	66	73	75	79	82	81	78	80	81	85	83	83	84	78	67	60	62	63	68	67	67	66	75	81	66	73.1
	Minimum	46	45	51	50	40	39	52	63	60	50	61	58	45	44	41	50	52	55	51	53	41	33	31	36	37	35	34	54	47	37	40	46.3
Kansas City	Maximum	78	79	66	80	67	62	68	79	72	81	82	80	78	79	82	83	82	82	81	80	58	51	59	63	68	69	71	73	78	79	69	73.6
	Minimum	50	56	55	54	46	48	58	64	61	59	63	60	62	58	61	63	63	63	64	52	45	39	39	41	45	47	50	52	55	49	44	53.7
Kidder §§	Maximum	78	80	65	78	70	60	66	80	74	81	83	83	82	81	74	87	83	84	85	74	60	60	62	66	71	71	85	71	78	85	70	75.1
	Minimum	34	46	52	47	40	42	45	57	61	51	52	52	51	49	53	49	52	54	55	51	40	30	30	31	34	35	37	43	47	49	39	45.4
Lexington §§	Maximum	78	79	69	78	71	67	68	80	79	81	83	82	82	78	84	84	81	84	83	77	64	57	60	64	69	70	71	71	78	80	69	75.0
	Minimum	43	54	59	49	46	46	55	62	61	56	58	55	58	46	53	52	50	52	52	52	45	34	30	33	35	32	35	47	52	63	42	48.6
Maryville	Maximum	75	77	62	79	70	62	67	76	79	70	82	79	79	79	74	86	84	84	85	72	64	60	62	64	69	69	71	71	77	78	71	73.5
	Minimum	47	50	53	49	39	41	51	53	64	50	54	57	58	45	51	50	55	55	54	51	42	34	33	35	37	38	40	49	48	50	37	47.5
Oregon	Maximum	73	71	68	76	69	59	66	73	71	76	77	76	73	74	77	78	78	78	77	72	62	54	55	60	64	65	67	69	72	78	65	70.1
	Minimum	58	50	54	51	39	41	52	62	57	51	60	61	50	50	57	56	60	60	55	51	43	34	34	35	39	40	44	52	52	39	39	49.3
St. Joseph	Maximum	78	81	65	80	66	59	68	78	72	80	82	80	78	79	79	83	83	83	82	76	62	57	59	63	69	69	71	71	78	78	69	73.5
	Minimum	51	59	56	54	44	46	55	63	56	56	62	62	51	46	59	52	56	60	55	52	43	37	33	38	42	39	43	55	54	48	43	50.6
Trenton	Maximum	71	73	65	73	72	67	67	76	72	75	78	76	74	73	71	74	76	77	76	72	61	53	53	58	62	62	65	65	71	76	64	69.3
	Minimum	43	52	54	50	44	41	52	62	62	53	60	55	56	45	53	52	53	55	53	52	42	36	31	35	36	37	38	48	50	58	46	48.5

ᵃ, ᵇ, ᶜ, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 11-22-24—845.

UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXVIII. Columbia, Mo., November, 1924. No. 11.

GENERAL SUMMARY.

The general weather of November, 1924, was mild and pleasant in all of Missouri. The outstanding features were moderate and uniform temperatures, many bright days, and just moisture enough at timely intervals for general needs. There was rather more wind than usual, but the bright side offset that element.

The month, as a whole, averaged warmer than normal, being at the same time the fourth consecutive November with above normal temperature, but was not quite so warm as the same month in 1922.

The chief rains came about the middle of the month, but there were no very heavy falls anywhere. These were timely and beneficial, especially in sections south of the Missouri River, and more particularly in the southeastern section. A light snow fell near the close of the month, bringing with it a reminder of winter.

The conditions were favorable for winter grains, live stock, and for all outdoor work. Work on the main highways was nearly continuous. Trade in fuel, and heavy clothing was a bit sluggish; but the automobile, gasoline sales, and general accessories to the business were much favored by the fine weather.

TEMPERATURE.

The monthly mean temperature for the State, as determined from the records of 64 stations, was 46.7°, or 2.2° higher than the 36-year average. It is the fourth consecutive November with mean temperature above the normal. Temperatures were uniformly distributed, the averages for the five physiographic divisions agreeing within small values. The first week was the warmest, the 3d, 5th, and 6th being almost summer-like. The coldest day—the one real cold day of the month—was the 29th; minimum values ranged from 18° down to 10° above zero generally, and between 10° and 6° above zero at about 16 stations. The average number of days with minimum of 32° or lower was 14.

PRECIPITATION.

The average precipitation for the State, 100 stations reporting, was 1.72 inches. The departure from the 56 years' average was minus 0.63 inch. While less than normal moisture fell in all sections, the distribution was satisfactory and sufficient for needs. The more general rains fell on the 7th, save in the southeast; 10th to 13th, except the northwest, and general in southern parts on the 14th. The heaviest monthly fall was 4.11 inches, at Caruthersville, and 1.68 inches, at Amoret on the 14th, was the heaviest in any 24 hour period.

The first general snow of the season fell on the 27th and 28th; amounts ranged from 1 to 3 inches in all counties bordering the Missouri River; other sections under one inch to inappreciable amounts.

WIND.

The prevailing winds were from the northwest. The monthly movement, 8 stations equipped with anemometers reporting, was 7,998 miles. The average hourly velocity was 11.1 miles, about 13 per cent more than normal. Strong winds, 34 to 52 miles per hour, occurred 5th, 6th, 11th, and 21st.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well placed stations equipped with sunshine recorders reporting, was 200. This is about 68 per cent of the possible and about 11 per cent more than normal, and about 7 per cent more than November, 1923.

MISCELLANEOUS PHENOMENA.

Fogs, dense.—1st, 9th, 13th, and 15th.
Hail.—At St. Joseph, Oregon, and Lebanon on the 6th; Columbia, St. Louis, Hannibal, Eldon, and Gano on the 11th; at Oregon on the 13th, and 26th. No damage.
Halos, solar.—3d. Lunar.—4th, 7th, 10th, and 12th.
Sleet.—Springfield 14th.
Thunderstorms.—6th, 7th, 10th, 11th, 12th, and 13th.

SPECIAL STORM NOTES.

Birchtree.—A strong local wind, having some of the features of the tornado, occurred on the 11th; damage considerable.

Seymour.—A tornado-like wind occurred on the 11th, with hail; most of the tornado was high in the air. Small damage. High winds occurred on several dates at Lockwood, Clifton Hill, Downing, St. Catharine, Farmington, Lamonte, and Oregon; no resulting damage.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement. miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	30.11	76	58	213	71	7,101	9.9	38	nw.	21
Hannibal	30.09	73	..	...	..	7,637	10.6	35	s.	11
Kansas City	30.09	71	57	233	77	9,072	12.6	42	nw.	23
St. Joseph	30.07	75	58	219	73	6,799	9.4	38	nw.	21
St. Louis	30.09	72	55	158	53	11,015	15.3	52	sw.	5
Springfield	30 12	76	57	213	70	8,415	11.7	35	s.	5
Cairo, Ill	30.13	76	56	...	..	6,911	9.6	36	s.	6
Keokuk, Iowa	30.08	75	59	163	55	6,929	9.6	34	nw.	21

COMPARATIVE DATA FOR NOVEMBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	41 6	−2.0	87	15	3.26	+0.94	......	.....	11	....	.....	.....
1889	39.9	−3.7	73	8	3.43	+1.11	......	.....	7	....	.....	.....
1890	46 5	+2.9	80	20	2.31	−0.01	......	.....	5	....	.....	.....
1891	39.6	−4.0	82	− 2	3.60	+1.28	......	.....	5	....	.....	.....
1892	40.1	−3.5	79	9	2.60	+0.28	......	1.0	6	11	7	12
1893	40.9	−2.7	79	− 1	1.54	−0.73	4.86	0.3	4	14	9	7
1894	41.0	−2.6	80	3	1.58	−0.74	2.20	T.	4	15	9	6
1895	41.6	−2.0	82	2	3.37	+1.05	2.98	3.2	8	10	7	13
1896	42.3	−1.3	82	5	2.18	−0.14	4.00	0.2	6	11	7	12
1897	43.4	−0.2	82	− 3	2.40	+0.08	3.39	T.	6	13	8	9
1898	39.9	−3.7	79	− 8	2.28	−0.04	2.75	2.3	6	14	8	8
1899	49.5	+5.9	82	16	1.90	−0.42	2.66	0.2	7	11	9	10
1900	43.7	+0 1	84	7	2.58	+0.26	4.55	0.2	6	15	7	8
1901	43.6	0.0	84	9	1.38	−0.94	1.90	0.3	4	17	7	6
1902	50.1	+6.5	85	18	3.62	+1.20	2.14	0.4	9	8	9	13
1903	40.9	−2.7	79	2	1.24	−1.08	2.44	1.1	5	13	8	9
1904	46.3	+2.7	83	11	0.22	−2.10	0.68	T.	2	21	5	4
1905	45.8	+2.2	83	2	1.94	−0.38	2.49	T.	6	18	6	6
1906	42.5	−1.1	88	− 3	2.60	+0.28	3 60	5.0	8	12	6	12
1907	43.8	+0 2	88	5	2.52	+0.20	3.00	T.	4	19	4	7
1908	47.6	+4.0	87	9	4.14	−1.82	4.00	0.2	8	15	7	8
1909	53.6	+10.0	87	11	4 43	+2.11	6.18	0.4	8	12	7	11
1910	42.0	−1.6	83	11	0 38	−1.94	0.70	0.1	3	15	8	7
1911	39.1	−4.5	93	− 3	2.55	+0.23	2.15	1.1	7	13	6	11
1912	45.9	+2.3	88	12	1.52	−0.80	2.37	0.1	3	20	5	5
1913	51.7	+7.4	80	11	2.73	+0.35	2.50	T.	7	10	8	12
1914	48.6	+4.0	89	2	0.65	−1.84	1.90	0.1	3	19	6	5
1915	49.5	+4.9	87	12	2.76	+0.33	2.62	0.1	5	16	7	7
1916	49.6	+5.9	85	3	2.49	+0.14	2.53	0.1	4	19	4	7
1917	46.1	+1.5	80	8	1.05	−1.46	3.26	T.	3	14	5	11
1918	44.9	+0.5	85	12	3.18	+0.79	4.60	1 2	6	15	4	11
1919	42.2	−2.2	78	2	3.62	+1.40	3.36	1.0	6	15	5	10
1920	40.9	−3.5	82	6	1 21	−1.09	1.89	T.	6	12	6	12
1921	45.6	+1.2	84	10	2.82	+0.40	4.29	0.4	5	13	7	10
1922	47.8	+2.9	84	15	3 82	+1.45	3.40	T.	7	16	6	8
1923	45.1	+0.6	79	14	2.15	−0.20	2.30	3.0	6	15	6	9
1924	46.7	+2.2	88	4	1.72	−0.63	1.68	0.5	4	15	8	7

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Climatological Data for November, 1924.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	45	44.6	+ 3.1	88	6	9	29	40	1.11	−0.86	0.60	3.0	4	23	0	7	sw.	O. K. Benecke
Clifton Hill	Randolph	731	25	44.5	+ 0.7	79	3†	4	29	40	1.22	−0.69	0.52	3.0	5	12	9	9	......	Dr. A. J. Bradsher
Columbia	Boone	748	34	45.9	+ 2.6	80	5†	13	29	38	1.50	−0.81	0.55	1.9	7	14	12	4	s.	U. S. Weather Bureau
Downing	Schuyler	878	3	43.4	......	79	3	7	29	41	0.56	−1.07	0.26	T.	5	13	7	10	w.	E. E. St. Clair
Fayette	Howard	661	44	44.3	+ 2.0	80	5†	11	29	43	0.84	−1.16	0.38	1.0	4	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	36	45.2	+ 0.7	80	5†	11	29	43	2.04	−0.21	0.84	2.0	7	15	11	4	sw.	Westminster College
Gorin	Scotland	700	37	....	......	..	..	..	..	..	0.71	−1.25	0.27	T.	4	12	7	11	nw.	J. W. Pulliam
Hannibal	Marion	534	32	45.0	+ 2.9	82	5	12	29	38	1.14	−0.81	0.45	T.	6	14	9	7	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	36	46.0	+ 1.9	80	5†	14	29	39	1.75	−0.52	0.60	1.0	9	21	3	6	s.	Miss Emma Swift
Kirksville	Adair	969	35	43.2	+ 2.7	78	3	7	29	42	0.60	−1.16	0.30	T	2	17	4	9	nw.	Prof. J. S. Stokes
Louisiana	Pike	469	30	47.6	+ 3.4	80	5†	14	29	45	2.07	−0.21	0.58	T.	4	17	5	8	w.	J. T. Farrell
Macon	Macon	875	25	43.0	− 0.4	80	5	8	29	40	1.20	−0.73	0.44	0	6	15	6	9	nw.	W. C. Brown
Mexico	Audrain	800	35	43.8	+ 0.8	82	6	10	29	43	1.19	−1.13	0.56	1.0	8	21	1	8	w.	Mrs. Abbie Snoddy
Palmyra	Marion	652	25	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	....
St. Catharine	Linn	800	13	44.4	+ 1.5	78	3	8	29	37	0.62	−1.11	0.35	T.	4	13	14	3	nw.	L. D. Baker
St. Charles	St. Charles	456	36	48.0	+ 2.5	79	3†	15	29	46	2.14	−0.40	0.85	2.0	5	13	8	9	nw.	L. C. Saeger
St. Louis (1)	St. Louis City	717	50	47.6	+ 2.5	77	3	20	29	35	1.53	−1.35	0.57	1.1	7	15	8	7	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	12	47.4	+ 0.9	78	3	17	29	36	1.55	−0.76	0.62	1.0	6	13	10	7	w.	St. Louis University
Shelbina	Shelby	779	31	....	......	..	..	..	..	..	0.84	−1.24	0.42	0.3	6	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	26	45.5	+ 1.7	80	5†	17	28†	42	0.77	−1.16	0.52	T.	3	13	11	6	n.	Frank Hall
Unionville	Putnam	1,062	31	42.6	+ 2.4	78	3	6	29	40	1.39	−0.43	1.05	T.	2	13	9	8	nw.	Geo. W. Davis
Warrenton	Warren	816	42	47.1	+ 4.2	80	6	12	29	39	2.87	+0.28	1.17	1.5	9	16	9	5	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	52	43.4	+ 2.3	79	5	10	29	39	0.50	−1.35	0.19	T.	5	9	10	11	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	45.1	+ 2.0	88	6	4	29	46	1.28	−0.82	1.17	0.9	5	15	8	7	nw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	28	56.1^{f}	+ 6.2	82	2†	..	..	..	4.11	+0.26	1.35	0	5	14^{f}	4^{f}	6^{f}	n.	H. E. Averill
Doniphan	Ripley	344	20	48.2	+ 0.6	81	4	17	29	46	1.13	−1.99	0.86	0	2	7	20	3	n.	W. W. Martin
Jackson	Cape Girardeau	428	33	48.0	+ 1.3	83	4	18	29	49	2.39	−0.74	0.98	0.5	6	8	6	16	n.	John G. Putz
Marble Hill	Bollinger	470	29	48.8	+ 4.4	84	4	18	25†	49	2.22	−0.95	1.30	0	5	15	11	4	n.	R. A. DeWitt
Parma	New Madrid	281	3	....	......	..	..	..	..	..	2.62	......	1.16	0	3	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	15	....	......	..	..	..	..	..	1.25	−0.98	1.00	0	2	..	..	..	......	George F. Ellis.
Poplar Bluff††	Butler	339	20	49.2	+ 1.8	85	4	18	24†	44	1.92	−1.34	1.23	0	3	17	0	13	s.	J. H. Wolpers
Vanduser	Scott	304	23	...	......	..	..	..	..	..	2.69	−0.96	1.37	0	4	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	49.6	+ 2.3	78	4	26	29	34	1.81	−2.21	1.07	T.	4	12	9	9	s.	U. S. Weather Bureau
Section means and	extremes	....	..	50.1	+ 3.0	84	4	17	29	49	2.28	−1.26	1.37	T.	4	12	10	8	n.	
Ozark Plateau.																				
Arcadia	Iron	926	43	44.3	+ 0.3	80	4	18	29†	45	1.61	−2.01	0.76	0	3	18	1	11	s.	Arcadia College
Birchtree	Shannon	1,000	29	47.8^{c}	+ 1.3	83	4	19	29	43	2.84	−0.05	1.30	0	3	19	5	6	n.	V. H. Kirkendall
Bolivar	Polk	1,071	30	48.4	+ 1.6	81	5†	18	29	38	2.40	−0.13	0.85	T.	4	21	4	5	ne.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	25	....	......	82	5	..	.	..	1.49	−1.55	0.72	0	4	24	1	5	sw.	H. E. Dean
Eldon	Miller	934	28	48.0	+ 2.8	84	4†	13	29	50	3.14	+0.93	1.30	T.	5	12	11	7	sw.	E. H. Shepherd
Farmington	St. Francois	918	13	46.6	+ 2.3	82	4	17	29	38	0.51	−3.45	0.20	0.7	6	13	11	6	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	48.1	+ 1.3	81	4	16	29	38	2.61	+0.30	1.25	T.	5	17	8	5	nw.	A. C. Leach
Goodland	Iron	1,000	30	47.2	+ 2.6	83	4	18	25†	50	1.05	−1.84	0.69	0	4	19	6	5	s.	F. M Adams
Greenville	Wayne	381	2	46.9	......	81	2	15	26†	53	2.00	......	1.50	0	2	22	2	6	......	A. M. Rhodes
Hollister	Taney	735	37	53.6	+ 5.4	86	4	20	26	56	2.60	−0.18	1.10	0	3	11	10	9	sw.	Mrs. W. P. Chapmann
Koshkonong	Oregon	958	23	50.6	+ 1.2	81	4	23	29	39	1.92	−1.10	0.80	0	5	15	3	12	sw.	R. M. Hitt
Lebanon	Laclede	1,265	36	47.2	+ 1.2	84	6	15	28	44	2.31	−0.23	1.07	T.	4	22	4	4	s.	Thomas E. Mulcare
Lockwood	Dade	1,078	18	44.8	− 2.9	80	5†	20	29	43	2.48	+0.27	1.05	T.	4	23	2	5	sw.	C. S. Crow
Mountain Grove	Wright	1,463	23	46.7	+ 0.1	80	4	18	29†	36	1.63	−0.80	1.00	0	5	19	7	4	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	36	50.7	+ 3.5	80	4†	17	29	41	2.81	−0.25	0.81	0	6	20	5	5	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	24	49.4	+ 4.5	81	4	15	29	38	2.16	−0.15	1.00	0.2	5	16	11	3	sw.	Prof. Elmo G. Harris
Seligman	Barry	1,542	22	50.1^{a}	+ 2.9	78	2†	20	29	35	2.98	+0.62	0.86	T.	6	17^{c}	6^{c}	4^{c}	s.	Floyd E. Fawver
Seymour	Webster	1,612	18	48.6^{d}	+ 2.5	79	5	12	29	39	2.34	+0.01	0.72	T.	5	21	6	3	nw.	Ira H. Hailey
Springfield	Greene	1,350	36	48.5	+ 2.8	77	6	20	29	37	1.71	−0.93	0.98	T.	6	18	8	4	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	48.3	+ 2.0	86	4	12	29	56	2.14	−0.58	1.30	T	5	18	6	6	sw.	
Southwest Plain.																				
Amoret	Bates	831	..	48.8	+ 3.3	82	3	18	25	47	2.44	+0.78	1.68	0	2	24	5	1	nw.	Andrew Rood
Appleton City	St. Clair	853	30	49.6	+ 3.5	80	3†	18	29	39	2.13	0.00	0.98	T.	5	18	10	2	sw.	W. G. Bigelow
Clinton	Henry	765	31	52.8^{c}	+ 5.5	84	3	..	..	40	1.90	+0.02	0.80	T.	4	16^{c}	8^{c}	3^{c}	sw.	A. E. Derwent, M. D
Harrisonville	Cass	904	47	45.2	+ 2.8	81	3	13	29	44	1.37	−0.58	0.70	T.	5	9	1	20	nw.	John H. Patterson
Lamar	Barton	980	37	47.7	+ 1.1	82	5	19	29	39	3.14	+0.90	1.20	0	5	18	5	7	sw.	Jesse A. Mann
Lamonte	Pettis	867	23	47.2	+ 2.8	82	3†	11	29	45	1.10	−0.80	0.57	T.	3	18	12	0	se.	J. E. Wheeler
Marshall	Saline	779	35	45.4^{c}	− 0.2	85	5	9	29	43	1.36	−0.72	0.53	2.0	6	8^{d}	10^{d}	8^{d}	nw.	Dr. W. H. Black
Nevada	Vernon	862	31	48.6	+ 4.2	81	3†	17	29	39	2.86	+0.98	1.27	0	4	14	10	6	s.	George A. Kaupp
Warrensburg	Johnson	878	37	49.0	+ 4.1	84	6	13	29	44	1.73	−0.05	1.00	T.	4	10^{b}	10^{b}	8^{b}	n.	E. A. Markey.
Warsaw	Benton	687	24	50.0	+ 2.5	84	3	16	29	48	1.31	−1.10	0.60	T.	4	13	11	6	w.	Everett Martin
Section means and	extremes	.....	..	48.4	+ 3.0	85	5	9	29	48	1.93	−0.06	1.68	0.2	4	15	8	7	nw.	
Northwest Plateau.																				
Avalon	Livingston	730	34	44.7	+ 0.8	82	3	6	29	43	0.95	−1.02	0.50	2.0	3	21	3	6	sw	F. G. Ashbaugh
Bethany	Harrison	916	32	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	Owen Ross
Chillicothe	Livingston	779	15	42.8	+ 0.2	82	3	9	29	45	1.02	−1.31	0.55	1.0	4	19	7	4	s	Wm. J. Olenhouse
Conception	Nodaway	980	35	42.7	+ 1.3	79	3†	10	29	37	0.68	−0.68	0.32	0.5	3	10	15	5	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	4	44.4^{g}	......	82	3	8	29	42	1.11	−0.36	0.92	1.5	4	27	0	3	n.	Fred L. Stiff
Grant City	Worth	1,134	20	....	......	..	..	7	29	..	0.97	−0.64	0.59	T.	2	13	16	1	nw.	B. F. Locke
Kansas City	Jackson	963	35	46.7	+ 3.0	81	3	19	29	35	1.16	−0.69	0.66	0.2	6	15	10	5	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	31	42.4	0.0	82	3	8	29	45	1.82	−0.02	1.04	2.5	4	18	3	9	nw.	Linn Terry
Lexington	Lafayette	688	39	47.8	+ 3.8	81	4	13	29	46	1.32	−1.53	0.85	1.5	4	17	7	6	s.	Edwin G. Loomis
Liberty	Clay	859	34	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	Rev. Philip Nathans
Maryville	Nodaway	1,169	34	43.4	+ 4.4	80	5	9	29	41	0.78	−0.87	0.38	1.0	5	17	4	9	n.	J. R. Brink
Oregon	Holt	1,048	68	43.6	+ 3.3	78	3†	11	29	36	0.86	−0.83	0.41	1.3	4	15	10	5	sw.	Tom Curry
St. Joseph	Buchanan	967	16	44.9	+ 0.9	81	3	16	29	33	1.04	−0.48	0.78	1.0	5	17	9	4	nw	U. S. Weather Bureau
Tarkio	Atchison	916	21	41.6	+ 1.0	81	5	10	29	41	0.57	−0.88	0.32	2.0	3	14	10	6	sw	Albert Volker
Trenton	Grundy	822	28	43.6	+ 1.2	74	5	13	29	33	1.14	−0.66	0.76	T.	6	20	7	3	nw.	W. H. Estes
Section means and	extremes	.....	..	44.1	+ 1.8	82	3	6	29	46	0.98	−0.77	1.04	1.1	4	17	8	5	nw.	
State means and	extremes	.....	..	46.7	+ 2.2	88	6	4	29	56	1.72	−0.63	1.68	0.5	4	15	8	7	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for November, 1924.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri							.45						.62															.05				1.12
Brunswick‖	Grand							.35						.60										.04					.12				1.11
Clifton Hill	Chariton							.52			.07	.02		.45											T.			T.	.16				1.22
Columbia***	Missouri							.27			.18	.38		.55	T.									.06			.01		.05				1.50
Downing	Mississippi							.26			.06	.06		.15								T.			.03								0.56
Fayette⦀	Missouri						.35				.01		T.	.38										T.			T.		.10				0.84
Fulton	....do							.37			.18	.11		.84	.04									.20	T.			T.	.30				2.04
Gorin	Mississippi							.27			.11	.10		.23										T.					T.				0.71
Hannibal***	....do							.16			.08	.40		.45								T.	T.	.01			.04	T.	T.				1.14
Hermann‖	Missouri							.18			.18	.12	.16	.80	.70	.28									.18				.20				2.80
Jefferson City‖	....do							.25			.02	.15	.30	.60	.10	.20									.10				.03				1.75
Kirksville	Mississippi										.30			.30											T.								0.60
Louisiana	....do							.58			.45	.53		.51								T.		T.	T.	T.		T.	T.	T.	T.		2.07
Macon ‖	Chariton							.44			.13	.11		.43	.04										T.			.05					1.20
Mexico ‖	Mississippi							.22			.12		.10	.05	.56									T.	.03			.01	.10				1.19
Milan ‖	Grand							.30			.25				.25												T.						0.80
Pacific‖	Meramec										T.		.33	.18	.50	.53									.21				.08				1.83
Palmyra‖	Mississippi																																....
St. Catharine	Grand							.22			T.	.04		.35								.01						T.	T.				0.62
St. Charles	Missouri							T.			T	.45		.85		.47								.17				T.	.20	T.			2.14
St. Louis (1)***	Mississippi										.05	.28		.54	.40	.03			T.					.15	T.		T.	T.	.08				1.53
St. Louis (2)	....do										.06	.24		.62	.35									.15				T.	.13				1.55
Shelbina ⦀	....do							.27			.08			.42	.02										.02			03					0.84
Steffenville	....do							.20			.05			.52												T.		T.		T.			0.77
Union‖	Meramec							.04			.07		.40	.22	.50	.60									.15				.07				2.05
Unionville	Chariton							1.05			T.	T.		.34										T.	T.								1.39
Valley Park⦀	Meramec										T.		.26	.28	.47	.49									.22				.10				1.82
Warrenton	Mississippi							.31			.14	.80	..	1.17	.07	.04								.14	T.			.10	.10				2.87
Keokuk, Ia.***	....do							.09			.17	.10		.10								T.		.04			T.	T.			T.		0.50
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi							.06					.51	.01	.16	.98									.03					T.			1.75
Caruthersville	....do								.38				.85	.38	1.15	1.35									T.								4.11
Doniphan	Black											.27			.86									T.									1.13
Jackson	Mississippi							.18			T.	.25	.62		.31	.98									T.				T.	.05			2.39
Leeper ‖	Black																																....
Marble Hill	Mississippi											.12	.35		.33	1.30								.12									2.22
New Madrid‖	....do	.01											.36	.04	.45	1.30																	2.16
Parma	St. Francis												.56		1.16	.90																	2.62
Patton (near)	Mississippi													1.00	.25																		1.25
Poplar Bluff	Black											.55		.14	1.23																		1.92
Vanduser	Mississippi				.02								1.37	.70	.60																		2.69
Cairo, Ill.***	....do							T.				.70	T.	T	.77	.33		T.						.01	T.		T.		T.				1.81
Ozark Plateau.																																	
Annapolis‖	St. Francis								.55													1.19											1.74
Arcadia ‖	....do												.69	T.	.16	.76									T.					T.			1.61
Birchtree	Black											1.30			.60	.94																	2.84
Bolivar‖	Osage											.04		.71	.85									.80	T.								2.40
Dean	Neosho												.10	.72	.64														.03				1.49
De Soto⦀	Mississippi													.13	.13	.59								.09					.10	T.			1.04
Eldon	Missouri							.24				.60		.89	1.30									.11					T.				3.14
Farmington	St. Francis											T.	.20	.06	.07									.10					.06	.02			0.51
Fredericktown⦀	.... do										T.		.97									.64	.46							.04			2.11
Galena⦀	White							.45			.12		.12		1.25	1.15																	3.09
Gano	Meramec							.05				1.25		.25	.39	.67													T.	T.			2.61
Goodland	Black											.10		.08	.18	.69																	1.05
Greenville	St. Francis												.50		1.50																		2.00
Hollister	White							.50						1.00	1.10																		2.60
Jerome ‖	Gasconade							.16			.08	.37	.05	.20	.45	.94									.15				T.	T.			2.40
Koshkonong	Black										.06	.20	.10		.80	.76																	1.92
Lebanon ‖	Osage							.35				.05	T.	1.07	.84														T.				2.31
Lockwood	....do							.38				.20		.85	1.05									T.	T.								2.48
Mountain Grove‖	White							.08				.06	.17		.32	1.00									T.								1.63
Neosho	Neosho							.81			T.	.04		.67	.73	.54								T.					.02				2.81
Rolla	Meramec						.10				.48	T.		.48	1.00									.10				T.	T				2.16
Seligman	Neosho							.49			.04	.44		.45	.86	.70									T.				T.				2.98
Seymour	White							.20			T.	.65		.17	.60	.72								T.	T.								2.34
Springfield***	....do							.39		T.	.01	.04		.28	.98	.01								T.	T.				T.				1.71
Steelville‖	Meramec												.17	.05	.36	.93																	1.51
Tuscumbia ‖	Osage							.37			.06	.27	.23	.76	.38	.93									.12				T.				3 12
Willow Sprgs. ⦀ (near)	White							.02			T.	T.	.38		.65	1.18																	2.23
Southwest Plain.																																	
Amoret	Osage						.76								1.68																		2.44
Appleton City	....do							.98			.02	T.		.69	.34	.10								T.					T.				2.13
Clinton	....do							.80							.78	.15	.17										T.						1.90
Harrisonville‖	....do							.58			.02			.70	.05									.02					T.				1.37
Joplin*	Neosho						.26	.10		T.		.18		.19	1.17									T.									1.90
Lamar ‖	....do							.28						.64	1.00	1.20									.02								3.14
Lamonte	Missouri							.45						.57										.08					T.				1.10
Marshall	.... do						.40				.03	.10		.53										.10					.20				1.36
Nevada	Osage							.52						1.27	.80	.27																	2.86
Osceola‖	....do							.36						1.15	.46	.67									.10								2.74
Warrensburg	Missouri							.46						1.00									.02					T.	.25				1.73
Warsaw	Osage													.60	.32	.33	.06												T.				1.31
Waverly ‖	Missouri							.29						.58										T.	T.			T.	.15				1.02
Northwest Plateau.																																	
Albany‖	Grand						.20							.40														T.					0.60
Avalon	....do								.25					.50														.20					0.95
Bethany	....do																																....
Chillicothe⦀	....do							.27			.10			.55											T.			T.	.10				1.02
Conception	Missouri							.32			T.			.31										T.			T.		.05				0.68
Edgerton	....do													.92										.02			.02	.15					1.11
Gallatin	Grand							1.00						.40															.30				1.70
Grant City	.... do							.59			T.			.38														T.					0.97
Kansas City***	Missouri						.47				T.		.03	.63										.01	T.		.01	T.	.01				1.16
Kidder ‖	Grand							1.04						.57														.05	.16				1.82
Lexington ‖	Missouri							.30						.85											.04				.13				1.32
Liberty	....do																																....
Maryville	....do							.22			.05			.38										.04	T.				.09				0.78
Oregon	....do						.26							.44										.03	T.		T.	.13					0.86
St. Joseph***	....do						.16						.15	.63										T.	T		.01	.09	T.				1.04
Tarkio	....do							.15						.32										T.		T.			10				0.57
Trenton	Grand						.76				.04			.28									T.	.01			.02		.03				1.14

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for November, 1924.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	76	65	80	70	80	88	44	53	68	72	72	55	43	41	56	47	58	49	63	63	59	55	50	31	51	57	47	32	39	47	..	57.0
	Minimum	42	41	40	43	44	59	38	31	30	36	52	26	28	29	27	31	30	30	31	32	39	35	35	25	22	25	26	18	9	10	..	32.1
Columbia	Maximum	75	61	78	72	80	80	60	48	62	70	74	50	46	40	54	46	57	43	60	60	56	52	49	37	50	56	47	34	42	46	..	56.2
	Minimum	46	46	44	47	58	60	35	32	35	49	36	30	40	34	28	31	32	32	33	39	42	36	32	25	24	36	27	20	13	27	..	35.6
Fayette	Maximum	76	64	79	71	80	80	45	51	64	72	75	54	45	40	56	48	59	47	62	63	58	53	48	38	51	57	48	32	42	47	..	56.8
	Minimum	39	40	36	45	46	57	36	30	28	40	53	23	33	32	32	27	26	34	26	30	38	35	32	24	22	23	25	18	11	14	..	31.8
Hannibal	Maximum	76	58	78	66	82	80	71	48	61	69	72	48	45	40	53	43	56	40	58	62	55	49	49	33	46	56	45	33	37	41	..	55.0
	Minimum	46	43	40	45	53	68	35	30	30	47	36	31	39	31	29	31	30	32	32	40	44	36	33	25	25	35	29	22	12	25	..	35.1
Jefferson City §§	Maximum	75	63	79	72	80	80	42	48	64	71	72	50	51	40	52	46	60	42	60	60	60	54	47	50	55	58	48	35	44	47	..	56.8
	Minimum	44	47	40	46	55	63	38	31	30	40	55	30	32	38	33	35	29	33	29	32	38	36	36	26	25	30	32	22	14	18	..	35.2
Kirksville	Maximum	74	64	78	71	77	77	66	47	62	69	70	47	40	40	53	54	46	45	62	59	55	52	48	44	46	51	43	37	31	43	..	55.0
	Minimum	44	39	37	36	48	49	36	25	29	44	36	22	22	22	25	30	42	29	30	37	45	32	34	22	22	34	23	16	7	25	..	31.4
Louisiana	Maximum	75	60	78	66	80	80	70	66	63	63	72	72	63	56	58	55	60	58	60	62	62	58	50	46	45	57	60	47	36	44	..	60.7
	Minimum	45	45	33	38	47	55	40	30	25	45	58	29	40	35	27	36	32	35	33	30	35	38	30	27	23	35	27	23	14	25	..	34.5
Macon §§	Maximum	75	62	78	69	80	77	43	56	64	69	70	53	43	44	54	40	51	45	61	62	56	52	49	36	47	55	45	33	40	35	..	54.8
	Minimum	43	41	39	40	43	59	36	28	28	29	50	28	29	27	26	26	26	29	31	35	39	33	34	22	22	35	23	18	8	9	..	31.2
Mexico §§	Maximum	77	61	78	71	81	82	44	49	65	68	73	51	47	38	53	47	60	44	61	61	57	55	49	38	48	59	49	32	38	42	..	55.9
	Minimum	43	42	40	43	44	59	39	28	31	32	30	27	31	32	28	28	29	32	29	34	44	34	34	25	24	26	26	19	10	11	..	31.8
St. Catharine	Maximum	74	67	78	65	77	76	67	48	61	69	70	49	44	42	54	48	57	50	58	61	57	54	49	45	46	52	45	38	31	49	..	56.0
	Minimum	42	40	41	40	52	61	36	29	30	47	42	22	37	25	23	32	30	25	29	36	43	31	35	23	23	32	23	17	8	27	..	32.7
St. Louis(1)	Maximum	75	62	77	71	77	75	71	50	57	68	68	53	58	43	50	46	58	42	57	61	58	22	49	41	48	53	45	37	41	45	..	56.3
	Minimum	50	47	42	52	57	67	37	31	38	45	41	35	42	38	37	37	33	35	32	41	45	40	41	29	28	36	33	27	20	27	..	38.8
Unionville	Maximum	75	66	78	70	77	74	63	48	62	68	68	52	44	38	52	50	51	50	62	65	56	50	50	41	46	48	40	36	30	41	..	55.0
	Minimum	46	36	38	33	50	45	33	24	30	45	38	20	30	20	25	30	28	23	31	40	40	30	36	20	18	32	23	15	6	24	..	30.3
Warrenton	Maximum	77	71	79	75	79	80	74	49	60	66	69	58	54	45	52	46	57	54	60	62	55	52	49	44	49	58	58	43	31	44	..	58.3
	Minimum	44	42	40	47	53	65	37	29	31	45	57	28	38	36	30	37	28	34	29	37	45	37	38	26	24	35	26	20	12	28	..	35.9
Southeast Lowlands.																																	
Caruthersville	Maximum	78	82	81	82	77	80	76	55	67	76	76	67	68	65	70	62	62	56	60	53	66	73	66	49	..	..	..	..	..	..	..	[f]68.6
	Minimum	42	41	44	47	55	60	55	42	35	48	60	48	49	47	42	38	34	42	30	36	42	38	38	33	..	..	..	..	..	..	..	[f]43.6
Doniphan	Maximum	73	76	78	81	77	76	72	55	61	72	77	66	61	60	47	60	61	56	55	54	63	62	58	45	53	55	51	51	42	59	..	61.9
	Minimum	32	30	32	38	53	63	46	38	25	48	57	37	47	42	37	30	26	38	24	27	35	32	30	32	23	30	21	21	17	25	..	34.6
Jackson	Maximum	79	75	79	83	77	76	74	55	63	76	68	65	69	63	62	59	50	48	57	55	62	59	54	43	52	53	51	45	38	51	..	61.4
	Minimum	32	32	30	46	53	62	40	35	22	33	59	36	49	42	33	28	24	36	22	29	39	36	32	32	19	31	30	32	18	26	..	34.6
Poplar Bluff	Maximum	79	83	83	85	77	77	74	60	65	74	68	67	62	51	52	68	58	59	61	57	66	65	61	46	56	53	54	49	44	65	..	64.0
	Minimum	31	33	40	45	64	61	39	25	39	48	39	49	39	38	30	26	40	24	28	33	26	31	35	18	28	31	28	18	21	21	..	34.3
Cairo, Ill.	Maximum	73	72	77	78	74	76	71	50	59	73	70	54	65	53	54	59	51	47	54	53	62	58	58	41	48	53	50	42	40	47	..	58.7
	Minimum	46	47	43	52	58	64	41	38	34	46	54	42	50	42	39	36	33	36	32	40	45	38	41	33	27	37	36	31	26	31	..	40.6
Ozark Plateau.																																	
Arcadia §§	Maximum	74	70	76	80	72	70	63	51	58	67	61	53	61	41	53	54	58	50	56	56	58	56	47	39	50	47	46	39	43	49	..	56.6
	Minimum	31	35	32	35	49	52	62	32	22	24	44	32	32	39	33	33	25	29	23	24	36	37	29	28	20	26	30	29	18	18	..	32.0
Birchtree	Maximum	77	77	81	83	..	..	..	70	65	72	65	60	71	60	50	58	61	55	58	58	60	60	52	41	55	52	49	49	41	58	..	[c]60.8
	Minimum	38	43	38	48	..	..	..	30	30	45	40	33	47	40	35	36	29	40	28	33	40	38	40	30	22	33	28	30	19	30	..	[c]34.9
Eldon	Maximum	70	59	81	84	84	72	75	65	70	76	73	58	54	47	59	63	66	56	78	64	61	65	53	45	58	58	48	42	38	60	..	62.7
	Minimum	38	43	39	45	45	45	34	28	30	42	43	28	40	35	35	35	28	32	28	33	42	35	33	24	22	32	25	19	13	30	..	33.4
Farmington	Maximum	74	68	72	82	72	68	49	58	62	78	68	60	63	57	54	50	56	49	56	58	58	57	50	39	46	52	42	39	34	46	..	57.2
	Minimum	36	42	37	52	62	40	30	26	41	50	55	42	46	38	32	38	26	36	26	37	37	37	34	29	22	30	30	22	17	34	..	36.1
Hollister	Maximum	84	80	82	86	84	85	72	74	78	79	80	78	78	80	80	80	76	78	65	67	78	56	57	58	56	60	62	64	62	64	..	72.8
	Minimum	28	30	34	40	32	34	40	41	44	46	46	44	46	48	49	46	28	30	25	28	35	30	24	26	24	20	24	28	29	30	..	31.3
Koshkonong	Maximum	74	75	79	81	76	74	70	57	65	73	67	63	71	62	48	61	62	55	60	56	62	62	54	44	55	51	48	47	45	61	..	61.9
	Minimum	43	47	45	42	53	64	43	35	32	48	58	35	47	43	36	40	32	38	30	35	43	39	37	30	26	32	29	36	23	36	..	39.2
Lebanon §§	Maximum	75	71	80	81	82	84	45	54	66	79	60	61	45	52	55	62	62	60	57	65	61	46	42	57	62	48	42	51	52	57	..	60.5
	Minimum	40	43	45	46	55	58	36	27	33	35	29	32	37	37	34	36	34	36	34	35	37	33	22	23	25	28	23	15	16	30	..	33.8
Mountain Grove §§	Maximum	72	76	77	80	75	77	47	57	63	70	68	59	59	43	56	54	60	50	58	57	56	57	47	38	58	55	46	38	47	56	..	58.5
	Minimum	43	45	44	44	45	54	44	31	33	37	52	32	32	40	35	35	32	34	32	34	38	35	35	24	24	24	25	27	18	18	..	31.9
Neosho	Maximum	76	78	79	80	80	80	75	61	68	72	76	60	63	47	49	56	61	58	63	61	59	64	60	50	57	58	55	44	49	60	..	63.3
	Minimum	35	42	40	55	55	69	36	31	34	53	55	34	46	41	41	36	32	33	28	31	39	33	39	24	22	37	22	31	17	48	..	38.1
Rolla	Maximum	76	70	80	81	77	77	77	55	64	70	72	59	59	50	52	57	60	55	63	61	57	55	53	42	53	56	46	42	37	51	..	60.2
	Minimum	42	48	42	55	59	69	38	31	32	48	59	31	42	38	36	36	32	38	30	37	46	35	38	27	25	39	26	25	15	36	..	38.5
Springfield	Maximum	72	71	76	76	77	77	70	54	62	71	73	57	62	42	50	50	58	46	57	57	55	57	50	36	52	54	44	41	48	54	..	58.3
	Minimum	45	49	50	55	57	66	33	32	40	50	41	31	41	40	39	37	36	38	35	38	42	36	32	23	27	36	26	26	20	37	..	38.7
Southwest Plain.																																	
Amoret	Maximum	75	68	82	80	80	81	72	55	63	72	73	55	57	48	56	52	64	59	60	59	71	61	57	48	59	56	52	49	42	56	..	62.1
	Minimum	35	41	35	43	57	69	33	29	29	50	49	26	42	35	31	31	32	36	27	31	43	32	38	22	18	40	28	24	25	29	..	35.5
Appleton City	Maximum	74	66	80	80	80	79	74	53	64	72	75	55	51	43	55	52	62	53	61	63	58	60	52	48	54	70	54	40	41	58	..	60.9
	Minimum	41	46	45	48	59	69	35	32	36	51	49	32	43	36	35	36	32	40	31	31	44	36	40	22	22	37	39	24	18	36	..	38.3
Clinton	Maximum	70	75	84	83	80	83	60	58	67	74	70	60	60	50	45	52	65	63	65	60	64	61	55	60	60	62	..	..	..	65	..	[c]64.9
	Minimum	46	45	44	58	60	58	38	32	50	52	46	30	42	38	35	31	32	41	32	36	45	48	26	23	40	40	..	..	..	31	..	[c]40.8
Harrisonville §§	Maximum	76	63	81	73	78	79	45	50	61	70	69	53	45	38	57	51	61	54	61	62	59	60	52	38	51	55	48	38	45	58	..	57.9
	Minimum	39	41	44	41	45	58	35	30	30	43	53	29	29	31	27	31	34	36	31	31	35	33	33	21	20	20	23	21	13	15	..	32.6
Lamar §§	Maximum	75	72	80	81	82	80	44	57	68	73	75	61	60	42	48	53	61	54	62	58	59	62	52	39	56	56	47	43	45	58	..	60.2
	Minimum	40	41	41	49	54	63	35	33	33	39	59	31	33	38	38	33	33	35	31	32	37	32	32	21	24	24	21	21	19	21	..	35.2
Lamonte	Maximum	77	68	82	80	82	81	72	56	68	73	77	51	41	42	57	50	59	53	65	63	58	59	49	41	55	59	49	37	39	51	..	60.1
	Minimum	43	43	41	44	57	67	36	30	32	50	32	26	39	33	25	32	30	35	30	35	42	31	33	21	18	37	23	19	11	30	..	34.2
Marshall	Maximum	78	60	80	75	85	75	..	52	67	73	73	52	45	43	51	53	57	53	63	62	..	..	55	45	50	56	48	43	31	45	..	[c]58.4
	Minimum	39	47	37	45	50	35	..	31	30	46	46	26	39	31	24	31	29	31	28	31	..	30	35	23	20	35	25	18	9	30	..	[b]32.4
Nevada	Maximum	66	69	81	80	81	75	73	51	66	72	69	51	53	44	52	51	61	58	59	55	58	60	52	43	56	50	49	45	43	55	..	59.3
	Minimum	41	41	45	52	58	69	34	37	36	54	47	31	43	37	37	35	36	35	33	35	43	31	38	22	22	39	25	25	17	35	..	38.0
Warrensburg	Maximum	78	79	83	79	82	84	80	54	66	67	72	58	52	52	53	48	60	53	65	63	59	61	53	47	51	57	48	44	41	53	..	61.5
	Minimum	42	42	43	61	57	69	36	30	35	52	43	28	48	33	26	34	35	31	32	37	43	33	37	22	18	37	23	22	13	32	..	36.5
Warsaw	Maximum	86	81	81	82	82	80	78	55	65	75	76	57	53	44	55	50	55	60	57	62	58	57	60	49	54	58	53	46	42	53	..	62.2
	Minimum	48	38	36	45	61	70	38	31	30	52	50	39	42	38	41	36	41	29	31	27	45	40	37	23	25	41	28	24	16	31	..	37.8
Northwest Plateau.																																	
Chillicothe §§	Maximum	77	61	82	66	80	72	43	52	65	73	72	53	42	39	56	48	56	53	62	64	56	52	49	35	51	51	42	33	43	48	..	55.9
	Minimum	40	40	37	39	38	56	36	27	27	31	51	20	21	26	23	26	31	32	30	33	39	33	33	22	21	22	24	15	9	10	..	29.7
Grant City	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	45	37	40	60	52	37	32	21	30	47	39	22	30	22	24	27	33	36	34	31	33	32	32	19	28	28	25	16	7	26	..	31.6
Kansas City	Maximum	76	60	81	70	79	73	44	51	64	70	67	50	41	38	55	48	57	53	61	61	57	58	50	36	55	51	41	37	48	55	..	56.4
	Minimum	49	46	50	46	60	38	34	33	41	55	40	33	35	30	30	37	39	41	38	42	45	38	27	25	27	33	26	24	19	29	..	37.0
Kidder §§	Maximum	78	80	82	78	81	65	44	49	66	62	55	53	52	40	55	45	55	52	63	51	58	61	50	34	50	50	42	32	41	48	..	55.7
	Minimum	39	39	41	38	36	39	34	27	27	39	24	26	26	25	25	29	31	35	32	33	43	30	32	22	19	21	23	16	8	10	..	29.0
Lexington §§	Maximum	69	77	63	81	72	79	78	65	50	64	71	72	52	46	41	57	48	58	53	61	63	58	58	50	44	51	56	48	36	58	..	59.3
	Minimum	47	44	40	43	58	65	36	33	30	50	51	26	39	31	27	31	32	38	33	38	43	31	43	25	21	36	25	21	13	36	..	36.4
Maryville	Maximum	77	59	78	66	80	75	50	50	64	67	66	49	44	38	55	66	56	55	51	64	56	52	49	35	53	44	42	35	36	50	..	55.4
	Minimum	45	37	42	38	53	34	31	26	31	49	38	23	32	21	21	41	29	34	32	33	41	31	33	20	15	31	22	19	9	31	..	31.5
Oregon	Maximum	75	65	78	62	78	70	44	47	60	68	66	47	43	39	54	45	51	52	60	61	56	51	47	35	52	46	41	34	41	48	..	51.1
	Minimum	47	40	45	39	55	34	36	28	35	51	37	27	31	22	26	30	35	32	52	41	44	32	24	21	18	32	24	16	11	31	..	33.2
St. Joseph	Maximum	79	59	81	65	81	55	45	50	63	68	67	51	41	37	56	48	55	54	62	62	56	57	48	35	54	49	41	35	47	51	..	55.1
	Minimum	52	43	48	42	55	37	33	30	35	54	34	27	32	26	29	31	37	37	38	43	42	36	26	24	23	32	27	21	16	27	..	34.7
Trenton	Maximum	71	61	73	63	74	73	56	45	56	68	64	54	46	42	51	41	52	48	55	61	54	50	48	38	45	48	42	36	32	44	..	53.1
	Minimum	46	41	40	41	51	46	33	30	31	46	40	27	35	25	27	31	30	34	33	42	43	35	38	24	25	33	28	22	13	31	..	34.0

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 12-23-24 845.

551.5
UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVIII. COLUMBIA, MO., DECEMBER, 1924. No. 12.

GENERAL SUMMARY.

The outstanding features of December, 1924, in Missouri, were the severe sleet storm that prevailed from the night of the 16th to the 18th, and 19th, severe cold along with ice covered ground the remainder of the month, and the resulting heavy property loss, and suffering to man and beast.

The first half of the month was mainly moderate and open. There was an abrupt change to severe winter during the night of the 16th and and following 17th, that reached the southern limits of the State by the 19th. Rain, freezing as it fell, with a mixture of sleet and snow prevailed. Over the central part of the State the storm prevailed for 48 consecutive hours. For ten consecutive days beginning with the 17th, temperatures did not rise above 32° in any hour of the 24 over most of the State north of the Ozarks. Subzero cold, ranging from 8° below zero to 28° below zero, swept the State on the 28th. For ten days following the sleet all overhead objects carried a heavy load of ice. There was practically no melting, and the only evaporation that took place was through the process of sublimation. It was the coldest December period of record. And for the severity and duration of the ice-storm, the time the ice remained on the ground, and resulting widespread damage, there is no other storm of any winter comparable with it in the climatological history of Missouri.

The damage was greatest in the central and east-central sections of the State. The conditions were appalling. Roofs of some houses gave way under the ice load. It was estimated that a flat roof about 30x50 feet square carried a load of 12 tons of ice, and warnings were issued advising the public to take the proper precautions. Many trees were stripped of limbs or entirely broken down. Literally thousands of telephone and telegraph poles went down, with a tangled mass of wires. Practically all traffic and business lines were suspended for a time. It was ten days or more before the utility companies got back to normal, and some still struggled with abnormal conditions at the very close of the month.

Winter wheat was not, it is thought, seriously injured in the northwestern and southeastern portions of the State, as the sleet was less severe in those sections. Over most of the remainder of the State a solid ice sheet prevailed to the close of the month. While the condition of the wheat crop was problematical, the concensus of the best opinion was decidedly pessimistic. Because of the way the best orchards are kept trimmed and pruned, helped probably by the peculiar formation and fibre of the wood, fruit trees escaped serious breakage. Some live stock were frozen in the fields, also chickens, and wild birds, the last doubtless largely to lack of proper food.

At the close of the year, no one had been bold enough to estimate the total damage and loss resulting from this December storm and weather. The Southwestern Bell Telephone Co., issued a statement that the company had suffered a loss of $1,000,000 to the west of St. Louis alone.

TEMPERATURE.

The monthly mean temperature for the State, 66 stations reporting, was 27.7 degrees, or 6.2 degrees lower than the average for 36 years. It was the coldest December since 1917, and the fourth coldest of record. The cold was general in all sections, but was somewhat more marked in the western and northern divisions. The latter half of the month was perhaps the coldest December period of record. The mildest weather occurred during the the first half. On about 25 days the minimum was 32 degrees or lower, and zero cold obtained on 5 days. At a few stations subzero temperatures occurred on all but three or four days of the last 15 days. The absolute minimum was 28 degrees below zero, being 1 degree of the record for this month.

PRECIPITATION.

The average precipitation for the State, 104 stations reporting, was 3.43 inches, or about 1.40 inches more than the 56 years' average. It was the wettest December since 1895. The excess moisture was marked in all divisions, except the southeastern lowlands where it was about normal. A rain that froze as it fell mixed with sleet and snow prevailed from the night of the 16th to the 19th, and caused the most severe property losses of record. An ice layer varying from one to 6 inches thick covered most of the State the last 15 days of the month. Some day thawing with nightly freezing resulted in an almost solid sheet of ice, a prolonged condition unequaled in the past three decades or more.

All of the precipitation of the latter half of the month was frozen rain, sleet or snow. The last element in itself was not unusual, the average depth for the State being 4.6 inches.

WIND.

The prevailing winds were from the north. The average monthly movement, 8 stations equipped with anemometers reporting, was 7,676 miles, and average hourly velocity of about 10.3 miles. This is about the usual for December. Brisk winds obtained on the 5th, and 8th.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well placed stations equipped with sunshine recorders reporting, was 142. This is about 48 per cent of the possible and approximates the normal for December.

MISCELLANEOUS PHENOMENA.

Fogs, dense.—3d, 4th, 6th, 7th, and 30th.

Halos, solar.—10th, 12th, 27th, 28th, and 29th.

Halos, lunar.—5th, 6th, 10th, and 12th.

Sleet or glaze.—5th, 14th, 16th, 17th, 18th, and 19th, and in southeast on 23d, and 24th.

Thunderstorms.—Kansas City and St. Joseph on the 4th, at St. Louis, Cairo, Springfield, and St. Joseph on the 7th; at Springfield, 17–18th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Max. velocity. Direction.	Max. velocity. Date.
Columbia	30.23	84	77	156	53	6,644	8.9	32	sw.	8
Hannibal	30.24	78	..	...	..	7,054	9.5	35	w	8
Kansas City	30.22	82	68	169	58	8,496	11.4	35	w.	8
St. Joseph	30.21	89	81	134	46	6,915	9.3	38	nw.	8
St. Louis	30.21	75	67	119	40	9,733	13.1	40	s.	5
Springfield	30 20	86	77	150	50	8,379	11.3	35	sw.	5
Cairo, Ill	30.22	73	68	...	..	7,594	10.2	33	n.	27
Keokuk, Iowa	30.24	79	68	123	42	6,593	8.9	36	sw.	8

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COMPARATIVE DATA FOR DECEMBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	35.9	+1.7	70	0	2.29	+0 24	.....	....	6	....	....	....
1889	46.8	+12.6	78	2	0.96	−1.09	.....	....	5	....	....	....
1890	36.0	+1.8	76	− 3	1.03	−1.02	.....	....	3	....	....	....
1891	39.8	+5.6	72	− 1	1.90	−0.15	.....	....	6	....	....	....
1892	29.4	−4.8	75	−22	2.38	+0.33	3.08	4.8	6	8	7	16
1893	35.2	+1.0	76	7	0.95	−1.10	2.95	2.7	5	11	11	9
1894	36.7	+2.5	75	− 7	2.13	+0.08	3.01	1.3	5	14	8	9
1895	34.3	+0.1	69	− 8	6.13	+4.08	6.95	3.4	8	9	8	14
1896	38.6	+4.4	79	− 5	0.93	−1.12	2.25	T.	3	13	8	10
1897	29.3	−4.9	74	−14	2.80	+0.75	2.70	6.3	7	8	8	15
1898	28.7	−5.5	74	−20	1.69	−0.36	2.50	5.1	5	17	6	8
1899	30.4	−3.8	72	−13	2.11	+0.06	1.70	6.6	9	12	9	10
1900	35.6	+1.4	68	− 3	0.69	−1.36	1.08	0.6	4	14	8	9
1901	28.5	−5.7	71	−29	2.93	+0.88	4.43	6.9	8	11	7	13
1902	30.7	−3.5	68	− 7	2.91	+0.06	2.50	3.1	8	10	4	17
1903	30.2	−4.0	65	11	1.51	−0.54	1.80	2.3	5	16	7	8
1904	32.9	−1.3	75	−10	1.50	−0.55	1.55	6.0	5	16	7	8
1905	33.3	−0.9	66	− 2	1.45	−0.60	2.24	1.7	4	18	6	7
1906	36.1	+1.9	73	0	2.27	+0.22	2.85	0.6	8	8	6	17
1907	37.7	+3.5	76	3	1.84	−0.21	1.78	3.7	7	11	7	13
1908	38.4	+4.2	80	− 4	0.85	−1.20	1.35	T.	3	16	7	8
1909	24.9	−9.3	76	−17	2.86	+0.81	2.50	7.7	8	12	6	13
1910	31.2	−3.0	67	− 5	1.25	−0.80	2.85	2.4	4	16	5	10
1911	36.7	+2.5	74	−11	2.80	+0.70	2.00	5.1	7	13	6	12
1912	36.5	+2.3	72	2	0.59	−1.46	0.91	0.6	3	19	5	7
1913	38.3	+4.9	74	− 3	2.27	+0.19	2.25	6.6	7	9	4	18
1914	26.8	−7.1	68	−18	2.48	+0.31	2.30	6.6	9	7	5	19
1915	34.7	+1.3	84	−13	2.77	+0.55	3.20	7.8	6	12	6	13
1916	31.3	−2.3	82	−29	1.85	−0.29	3.40	4.4	6	15	6	10
1917	25.5	−8.7	82	−23	0.74	−1.40	2.51	7.3	5	11	7	13
1918	40.0	+6.6	83	−12	3.21	+1.14	5.50	7.8	7	13	6	12
1919	28.5	−4.5	74	−22	0.69	−1.50	2.65	0.7	3	12	4	15
1920	35.6	+2.6	77	−10	1.93	−0.22	2.30	2.3	5	13	7	11
1921	36.9	+3.8	74	− 8	1.86	−0.23	1.91	1.9	6	13	7	11
1922	36.3	+2.9	75	− 6	2.11	−0.14	3.64	0.2	6	15	6	10
1923	41.0	+7.1	82	− 4	3.06	+1.03	2.23	0.8	8	11	6	14
1924	27.7	−6.2	80	−28	3.43	−1.40	4.20	4.6	7	13	6	12
....	......	......	....	....	.....	......	.....	....	....	....	....	....

Climatological Data for December, 1924.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip. .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	45	24.6	− 6.0	62	15	−22	28	48	2.70	+1.08	0.45	12.5	12	19	0	12	nw.	O. K. Benecke
Clifton Hill	Randolph	731	25	24.4	− 6.7	60	15	−26	28	33	2.67	+1.27	0.90	6.0	8	9	8	14	......	Dr. A. J. Bradsher
Columbia	Boone	748	34	26.6	− 6.6	62	15	−12	28	29	4.76	+2.75	2.12	1.4	9	10	10	11	se.	U. S. Weather Bureau
Downing	Schuyler	878	3	21.6	......	61	12	−23	28	32	3.01	+1.55	1.51	6.0	9	11	4	16	w.	E. E. St. Clair
Fayette	Howard	661	44	24.8	− 6.4	61	15	−21	28	39	2.70	+1.07	0.80	9.4	8		..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	36	26.4	− 7.3	60	12	−13	28	30	4.96	+3.04	1.78	6.0	7	14	8	9	n.	Westminster College
Gorin	Scotland	700	37	....	......	..	..	....	..	..	2.89	+1.20	1.91	4.5	6	9	7	15	sw.	J. W. Pulliam
Hannibal	Marion	534	32	25.0	− 6.5	59	12	−16	28	32	3.36	+1.71	1.18	3.4	7	11	6	14	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	36	26.4	− 6.4	63	6	− 5	28†	32	4.41	+2.56	1.75	3.5	7	16	1	14	n.	Miss Emma Swift
Kirksville	Adair	969	35	23.2^a	− 6.4	59	12	−23	28	39	2.64	+1.00	0.94	7.5	7	11	1	19	nw.	Prof. J. S. Stokes
Louisiana	Pike	469	30	28.7	− 2.8	60	13	−17	28	38	3.71	+2.02	1.50	3.0	9	17	6	8	n.	J. T. Farrell
Macon	Macon	875	25	21.7^a	− 8.7	58	15	−20	28	42	3.07	+1.67	1.05	6.0	10	10	10	11	sw.	W. C. Brown
Mexico	Audrain	800	35	28.7	− 3.0	60	15	−14	28	40	5.10	+3.10	1.90	9.5	9	17	0	14	w.	Mrs. Abbie Snoddy
Palmyra	Marion	652	25	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	....
St. Catharine	Linn	800	13	23.1	− 6.6	56	15	−28	28	31	2.26	+0.98	0.85	11.5	9	10	9	12	nw.	L. D. Baker
St. Charles	St. Charles	456	36	29.4	− 5.5	65	6	−12	28	33	4.76	+2.89	2.32	4.5	7	7	10	14	nw.	L. C. Saeger
St. Louis (1)	St. Louis City	717	50	30.0	− 4.8	69	16	− 8	28	32	4.63	+2.40	2.78	2.1	7	10	5	16	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	12	29.4	− 4.9	69	16	− 9	28	31	5.28	+3.18	3.12	5.7	7	10	6	15	n.	St. Louis University
Shelbina	Shelby	779	31	....	......	..	..	....	..	..	2.55	+0.94	1.34	7.0	9	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	26	24.0	− 6.6	57	12	−26	28	32	3.64	+2.08	1.50	12.0	8	9	13	9	n.	Frank Hall
Unionville	Putnam	1,062	31	21.0	− 6.4	56	12	−25	28	35	2.90	+1.26	1.90	3.5	5	10	7	14	n	Geo. W. Davis
Warrenton	Warren	816	42	28.8	− 3.2	65	6	−13	28	39	4.72	+2.59	2.00	3.5	9	12	7	12	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	52	23.0	− 6.6	60	12	−19	28	35	2.19	+0.32	1.18	7.8	10	6	10	15	w.	U. S. Weather Bureau
Section means and	extremes	.....	..	25.5	− 5.9	69	16	−28	28	48	3.59	+1.85	3.12	6.2	8	11	7	13	n.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	28	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	H. E. Averill
Doniphan	Ripley	344	20	34.7	− 2.7	71	12	− 1	28	44	3.58	+0.25	1.55	1.3	7	9	12	10	n.	W. W. Martin
Jackson	Cape Girardeau	428	33	32.6	− 4.0	69	16	− 9	28	40	4.18	+0.98	1.42	2.5	9	7	7	17	n.	John G. Putz
Marble Hill	Bollinger	470	29	33.6	− 2.6	70	16	− 7	28	43	4.11	+0.78	1.32	3.0	10	10	9	12	n.	R. A. DeWitt
Parma	New Madrid	281	3	....	.....	..	..	....	..	..	5.47	......	2.85	0.5	6	..	..	..	.....	J. E. Pearce
Patton (near)	Bollinger	500	15	....	......	..	..	....	..	..	4.08	+1.06	1.92	2.0	5	..	..	..	......	George F. Ellis.
Poplar Bluff††	Butler	329	20	36.4	− 0.4	71	16†	− 3	24	47	2.75	−1.43	1.33	1.5	4	13	7	11	n.	J. H. Wolpers
Vanduser	Scott	304	23	....	......	..	..	....	..	..	1.46	−2.55	0.93	0.9	5	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	49	35.2	− 2.6	70	16	− 3	28	31	3.76	+0.43	2.56	2.5	9	10	3	18	s.	U. S. Weather Bureau
Section means and	extremes	....	..	34.5	− 2.5	71	12†	− 9	28	47	3.66	−0.07	2.85	1.8	7	10	7	14	n.	
Ozark Plateau.																				
Arcadia	Iron	926	43	28.0	− 6.3	65	12	− 8	28	40	3.01	+0.03	1.33	1.0	7	12	3	16	w.	Arcadia College
Birchtree	Shannon	1,000	29	34.2	− 1.6	70	6†	− 5	28	40	2.35	−0.22	0.90	2.0	5	16	4	11	e.	V. H. Kirkendall
Bolivar	Polk	1,071	30	31.3	− 4.5	68	16	− 6	28	33	2.19	−0.21	1.00	8.0	5	18	2	11	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	25		......	76	16	5	25	..	3.50	+1.38	1.24	1.0	5	19	3	9	sw.	H. E. Dean
Eldon	Miller	934	28	29.2	− 5.1	71	15	−11	28	39	2.51	+0.35	1.48	3.0	4	16	7	8	ne.	E. H. Shepherd
Farmington	St. Francois	918	13	31.2	− 5.8	68	16	−10	28	37	2.78	+0.07	0.58	2.0	10	14	4	13	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	20	31.9	− 3.3	69	16	− 9	28	40	5.40	+3.39	3.30	2.8	9	11	4	16	nw.	A. C. Leach
Goodland	Iron	1,000	30	33.0	− 1.4	74	6	− 8	28	50	2.58	+0.10	0.90	2.2	6	12	7	12	n.	F. M. Adams
Greenville	Wayne	381	2	32.6	......	68	16	− 7	25	40	4.57	......	2.70	4.0	4	19	1	11	n.	A. M. Rhodes
Hollister	Taney	735	37	36.5	− 3.2	80	16	−10	28	50	4.80	+2.53	2.00	0.1	4	7	6	18	n.	Mrs. W. P. Chapmann
Koshkonong	Oregon	958	23	36.2	− 1.4	74	16	− 2	28	37	4.32	+1.16	1.12	2.0	7	14	4	13	ne.	R. M. Hitt
Lebanon	Laclede	1,265	36	29.4	− 5.6	71	16	−10	28	40	2.90	+0.30	2.00	3.5	7	10	5	16	ne.	Thomas E. Mulcare
Lockwood	Dade	1,078	18	29.2	− 6.3	69	7	− 6	28	34	3.79	+1.85	1.20	5.0	5	22	0	9	nw.	C. S. Crow
Mountain Grove	Wright	1,463	23	29.9	− 4.4	72	17	− 6	28	40	6.70	+4.47	4.20	1.2	8	14	7	10	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	36	34.2	− 2.5	74	16	− 2	28	39	2.90	+0.36	1.00	3.0	6	16	4	11	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	24	31.9	− 1.7	69	16	− 8	28	33	5.22	+3.15	2.92	3.5	7	14	7	10	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	22	34.2^a	− 2.4	74	16	− 3	28	39	3.27	+0.70	1.70	T.	3	16^a	7^a	7^a	sw.	Floyd E. Fawver
Seymour	Webster	1,612	18	31.6	− 2.8	73	16	− 7	28	34	5.08	+3.03	2.68	1.2	6	15	6	10	ne.	Ira H. Hailey
Springfield	Greene	1,350	36	30.4	− 5.8	72	16	− 5	28	34	4.21	+1.54	2.97	1.0	7	15	5	11	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	31.9	− 3.8	80	16	−11	28	50	3.79	+1.36	4.20	2.4	6	15	4	12	sw.	
Southwest Plain.																				
Amoret	Bates	831	..	28.2	− 4.3	66	12	− 7	28	37	5.28	+3.69	1.20	6.5	8	17	3	11	n.	Andrew Rood
Appleton City	St. Clair	853	30	29.4	− 4.9	67	7	− 7	28	31	2.19	+0.55	0.82	2.5	7	11	12	8	sw.	W. G. Bigelow
Clinton	Henry	765	31	30.2^c	− 4.2	67	15	−10	28	37	3.33	+1.60	2.50	6.0	7	10	9	12	sw.	A. E. Derwent, M. D
Harrisonville	Cass	904	47	24.3	− 6.9	63	12	−11	28	41	2.42	+0.64	0.95	5.0	6	6	0	25	nw.	John H. Patterson
Lamar	Barton	980	37	28.9	− 6.3	69	7	− 5	28†	42	3.77	+1.82	1.15	6.0	7	13	7	11	sw.	Jesse A. Mann
Lamonte	Pettis	867	23	26.0	− 8.2	67	15	−12	28	38	2.76	+1.10	....	7.2	8	15	8	8	se.	J. E. Wheeler
Marshall	Saline	779	35	25.8^a	− 5.8	64	15	−15	28	37	2.06	+0.40	0.50	6.1	7	14	7	10	se.	Dr. W. H. Black
Nevada	Vernon	862	31	29.4	− 4.5	69	7	− 5	19†	36	3.00	+1.14	1.20	3.8	4	19	1	11	s.	George A. Kaupp
Warrensburg	Johnson	878	37	27.8	− 5.6	64	7†	−13	28	34	1.81	+0.04	0.58	5.1	7	11	7	13	n.	E. A. Markey.
Warsaw	Benton	687	24	29.3	− 5.5	67	7	− 8	28	36	4.37	+2.05	1.70	6.5	10	12	7	12	n.	Everett Martin
Section means and	extremes	.....	..	28.1	− 5.3	69	7	−15	28	42	3.14	+1.33	2.50	5.3	7	12	6	13	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	34	23.5	− 8.9	58	12†	−20	28	31	2.61	+1.10	1.50	8.5	8		..	..	se.	F. G. Ashbaugh
Bethany	Harrison	916	32	....	......	55	15	−26	28	34	0.67	−0.68	0.52	6.4	6	12^g	2^g	10^g	nw.	Owen Ross
Chillicothe	Livingston	779	15	19.8	−15.8	60	15	−25	28	34	1.03	−0.62	0.42	4.8	5	14	5	12	e.	Wm. J. Olenhouse
Conception	Nodaway	980	35	20.3	− 9.0	57	15	−19	28	31	2.50	+1.51	1.65	4.8	6	14	11	6	sw	Fr. Adelhelm Hess
Edgerton	Platte	856	4	23.7	......	62	15	−23	28	40	2.47	+1.14	1.08	7.0	8	18	0	13	n.	Fred L. Stiff
Grant City	Worth	1,134	20	21.1	− 6.6	53	15	−23	28	32	2.61	+1.45	1.47	4.0	3	10	10	11	ne.	B. F. Locke
Kansas City	Jackson	963	35	25.8	− 6.7	63	15	−10	28	31	2.76	+1.40	1.24	7.1	9	11	8	12	n.	U. S. Weather Bureau
Kidder	Caldwell	1,020	31	19.8	− 9.9	57	15	−19	28	37	2.24	+0.94	0.70	6.5	7	17	1	13	nw.	Linn Terry
Lexington	Lafayette	688	39	25.4	− 6.1	62	16	−13	28	41	2.18	+0.46	0.62	9.3	8	14	7	10	nw.	Edwin G. Loomis
Liberty	Clay	859	34	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	Rev. Philip Nathans
Maryville	Nodaway	1,169	34	21.1	− 5.2	54	12†	−20	28	30	2.72	+1.67	1.66	6.0	6	13	0	18	n.	J. R. Brink
Oregon	Holt	1,048	68	22.2	− 6.3	54	12	−17	28	30	2.83	+1.39	....	5.2	8	13	7	11	nw.	Tom Curry
St. Joseph	Buchanan	967	16	22.6	− 8.1	58	15	−13	28	29	2.73	+1.71	1.95	5.6	9	11	9	11	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	21	19.2	− 6.7	55	12	−21	28	30	2.16	+1.24	1.54	6.2	6	11	7	13	nw.	Albert Volker
Trenton	Grundy	822	28	21.8	− 7.8	54	12	−18	28	25	2.69	+1.34	0.95	4.5	6	13	6	12	n.	W. H. Estes
Section means and	extremes	.....	..	22.0	− 8.1	63	15	−26	28	41	2.30	+1.00	1.95	6.1	7	13	6	12	nw.	
State means and	extremes	.....	..	27.7	− 6.2	80	16	−28	28	50	3.43	+1.40	4.20	4.6	7	13	6	12	n.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but in all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for December, 1924.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri			.10	.40	.75			.02									.40	.95	.30				.10									3.02
Brunswick‖	Grand			.33	.30	.40	.05	.03	.16									.45	.15	.45				.15	.18				.05				2.70
Clifton Hill	Chariton			.41	.90	.52		.02										.12	.36						.18	.16							2.67
Columbia***	Missouri		T.	.10	.93	.04		T.									.65	1.46	1.47	T.			.02	.07	.02			T.					4.76
Downing	Mississippi			.19	1.51	.36		.06	T.								T.	.22	.22	.06				.30	.09								3.01
Fayette‖	Missouri			.18	.52	.80												.20	.40					.20	.36				.04				2.70
Fulton	do				1.15	.08												1.78	1.74	.14				.01	.06								4.96
Gorin	Mississippi				1.91	.23		.04									.11		.26					.34									2.89
Hannibal***	do			.08	.86	.04		T.	T.						T.		.29	.92	.91	T.				.26	T.			T.					3.36
Hermann‖	Missouri			.03	.36	.56			.34									.20	1.02	1.33				T.	.02								3.86
Jefferson City‖	do				.10	.45			.10									.85	1.75	1.10				T.	.06								4.41
Kirksville	Mississippi				.94	.22		.08										* *	.80				.40	.20									2.64
Louisiana	do			.10	.70	.40		T	.05						.01			.40	1.50	.50				.05									3.71
Macon ‖	Chariton			.03	.47	1.05	.08	.12										.18	.22	.31				.24	.37								3.07
Mexico ‖	Mississippi			.13	.34	.87	.05	T.	.02									1.15	1.90	.49			T.		.15								5.10
Milan‖	Grand				.35	1.35			.20													T.	.20	.10		.15	.05					T.	2.40
Pacific‖	Meramec			.08	.46	.49	.01		.32								T.		1.00	1.85				.09	.04								4.34
Palmyra‖	Mississippi																																....
St. Catharine	Grand			.10	.85	.22		.03	T.								T.	.20	.28	.06			T.	.40	.12			T.				T.	2.26
St. Charles	Missouri			.41	.58	06		T.	.79										.50	2.32				.10									4.76
St Louis (1)***	Mississippi		T.	.50	.43			.38	T.						T.		T.	.40	2.78	.05				.09	T.								4.63
St. Louis (2)	do			.59	.69			.33							T.		T.	.38	3.12					.12	.05								5.28
Shelbina ‖	do			.01	.18	1.34	.04		.04									.36	.24					.10	.24								2.55
Steffenville	do			.05	1.50	.05		T.	.07						T.			.25	1.15					.07		.50							3.64
Union‖	Meramec			.07	.15	.73			.36										1.20	2.63				.06	.05								5.25
Unionville	Chariton			50	1.45	.20									T.			T.	T.	.45				.30									2.90
Valley Park‖	Meramec			T.	84	.42			.29								.01	T.	2.00	1.28				.05	T.								4.89
Warrenton	Mississippi			.43	.87	.02		.25	.05									.50	2.00	.50				T.	.10								4.72
Keokuk, Ia.***	do		T.	.01	1.17	.04		T.	T.	T.					.04		.12	.20	.25			.01	T.	.34	.01			T.				T.	2.19
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi			.03		.35		.92	1.46	.04							.13	.03	.04	.65				.03	.20								3.88
Caruthersville	do																																....
Doniphan	Black				.15			1.55	.56								.07			.25				.75	.25								3.58
Jackson	Mississippi				.30	.26		.95	1.42								.10	.03		.87				.05	.20								4.18
Leeper ‖	Black																																....
Marble Hill	Mississippi				.15	.60		1.03	1.32								.10	.12	.18	.18				.10	.33								4.11
New Madrid‖	do					.57		2.35	1.32								.08	.02		.30	T.			.07	.28						.02	.03	5.04
Parma	St. Francis				.33			2.85	1.30								.30			.42												.27	5.47
Patton (near)	Mississippi				.64	.42			1.92											.90			.20										4.08
Poplar Bluff	Black				.54			1.33								T.			.73					.15									2.75
Vanduser	Mississippi				.38	.03		.93												.03				.09									1.46
Cairo, Ill.***	do			T.	.52		T.	2.38	.21					T			.10	T.	.01	.26			.01	.07	.20					T.			3.76
Ozark Plateau.																																	
Annapolis‖	St. Francis				.67			1.38										.17	1.00					.30									3.52
Arcadia ‖	do			T.	.02	.38		T.	1.06								T.		.11	1.33	T.			.01	.10	T.							3.01
Birchtree	Black				.40				.46										.39	.90				.20									2.35
Bolivar‖	Osage				.35													1.00	.65						.19								2.19
Dean	Neosho		.06		1.21			T.										.93	1.24	T.				.06	T.								3.50
De Soto‖	Mississippi			.15	.26			.41										.80	.95	.05				.28	.01								2.91
Eldon	Missouri				.75			.08										1.48						.20									2.51
Farmington	St. Francis				.50	.02		.58	.52								.02	.12	.36	.52			.05	.09									2.78
Fredericktown‖	do		.09	.60		.80		.63	1.07						.48	T.		.54		.09				.13	.03							T.	4.46
Galena‖	White			.93					.30													1.75			.10								3.08
Gano	Meramec			.14	.60			.23	.13								T.	.12	2.80	1.20				.06	.12			T.			T	T.	5.40
Goodland	Black			.05	.90													.70	.70	.03				.20									2.58
Greenville	St. Francis				.47			2.70												1.20					.20								4.57
Hollister	White				.80														2.00	1 00	1.00				T								4.80
Jerome ‖	Gasconade			.14	.10	.70	.08	.02	.20	.02									1.80	1.75				.08	.01								4.90
Koshkonong	Black			T.	.82			1.10	.72								.06		.30	1.12				T.	.20								4.32
Lebanon ‖	Osage			.07	.09	.31	.31											T.	* *	2.00					.12								2.90
Lockwood	do				1.12													.25	1.20	1.10					.12								3.79
Mountain Grove‖	White			T.	.05	.82		T.	.35								T.		1.10	4.20				.02	.10						T.	.06	6.70
Neosho	Neosho			.11	.95			T.										.65	1.00	.09				T.	.10								2.90
Rolla	Meramec		T.	T.	.62			.30										1.03	2.92				.10	.10	T.							.15	5.22
Seligman	Neosho				1.07													.50	1.70						T.								3.27
Seymour	White		T.	T.	.83	T.		.50									T.	.36	2.68	.64				T.	.07			T.			T.	T.	5.08
Springfield***	do		.01	T.	.42	T.		.01								T.	T.	1.62	2.08	T.			.03	T.	.04			T.			T.	T.	4.21
Steelville‖	Meramec			.14		.39			.30										1.61	2.16				.13	.16	T.		T.	T.				4.89
Tuscumbia ‖	Osage			.03	.19	.30			.08									.12	1.70	1.48					.09								3.99
Willow Sprgs.‖ (near)	White		T.	T.		.91			.36								.01		1.70	.37				T.	.07						.25	T	3.67
Southwest Plain.																																	
Amoret	Osage		.02		1.20			1.06										.50	1.00	1.00				.36	.14								5.28
Appleton City	do			T.	.49	.04		.11									T.	.55	.82	.05			T.	T.	.13								2.19
Clinton	do			.02	.55	.05		.01										* *	2.50						.20								3.33
Harrisonville‖	do			.05	.60	.49		.06											.95					T.	.27								2.42
Joplin*	Neosho		.01	.03	.84												.12	.11	1 59												.05		2.75
Lamar‖	do			.03	.45	.34												.80	1.15	.90					.10								3.77
Lamonte	Missouri				.61			08										* *	* *	1.36			.06	.40	.25								2.76
Marshall	do			.22	.40	.18	T.	T.									T.	.50	.46				T.	.20	.10				T.		T.		2.06
Nevada	Osage			T.	.82	.08												.90	1.20														3.00
Osceola‖	do			.11	.18	.10												1.10	1.50						.20								3.19
Warrensburg	Missouri				.58			.12									.02	.50	.36				T.	.08	.18								1.84
Warsaw	Osage			.37	.11	.13		.06									T.	1.57	1.70	.06				.05	.14			.18					4.37
Waverly ‖	Missouri			.35	.89	.38	T.		.09									.43	.08	.60				.12	.18				T.				3.12
Northwest Plateau.																																	
Albany‖	Grand					2.50	T.													.08				.46	.36								3.40
Avalon	do			.25	1.25	.20													.36				.26	.14	.10					.05			2.61
Bethany	do							.03	T								.02	.04	.01					.52				.02				T.	0.67
Chillicothe ‖	do			.11	.42			.02	T.									.08	T.					.40	T.								1.03
Conception	Missouri			T.	1.65	.20		.15	T.								.06		.04					.40									2.50
Edgerton	do			.30	1.08	.10		.10									.20	.06	.05				T.		.58			T.					2.47
Gallatin	Grand				.67	.82		.04										T.	.10	.10				10	.20								2.03
Grant City	do			.80	1.47		T.	T.	T.								T.	T.	T.			T.	T.	.34								T.	2.61
Kansas City***	Missouri		T.	.28	1.23	.02	T.	.01	T.								.17	.24	.31	T.			T.	.47	.03			T.	T.	T.			2.76
Kidder ‖	Grand			.10	.68	.70			.03									35						.22	.16								2.24
Lexington ‖	Missouri			.30	.62			.07										.40	.05	.36				.15	.23								2.18
Liberty	do																																....
Maryville	do			.02	1.66	.29		.15	T.								T.	T.	.10					.50									2.72
Oregon	do			* *	* *	2.13		.10	T.								* *	* *	.20					.40				T.					2.83
St. Joseph***	do			.16	1.88	.03		.05	T.								.06	.07	.10				.04	.34				T				T.	2.73
Tarkio	do				1.54	.25		.23	T.									.03	T.					.10	.01								2.16
Trenton	Grand			.95	.92			.05	T.					T.			.21	T.						.44	.12			T					2.69

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for December, 1924.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	37	45	44	49	36	52	51	30	31	37	53	55	45	45	62	34	18	15	15	17	27	25	23	4	12	34	5	7	35	37	30	35.5
	Minimum	18	18	27	40	35	30	33	28	16	13	14	28	35	30	28	30	10	12	-4	-3	-2	9	20	-2	-10	-7	2	-22	-13	5	11	13.8
Columbia	Maximum	33	46	46	52	42	57	54	52	31	40	50	59	50	42	62	52	29	26	9	11	18	23	25	17	12	34	22	8	28	34	32	35.4
	Minimum	19	24	40	42	31	32	38	23	17	16	28	36	35	31	33	27	14	9	-1	-3	-1	17	17	-2	-1	11	-7	-12	8	20	15	17.9
Fayette	Maximum	36	46	45	51	44	55	53	42	32	39	53	56	45	46	61	37	37	19	7	17	22	24	25	7	17	36	17	10	31	35	30	34.7
	Minimum	17	20	22	40	33	34	33	27	15	13	17	29	36	30	28	32	13	13	-4	-3	-2	14	17	1	-9	0	4	-21	-8	8	12	14.9
Hannibal	Maximum	32	45	45	49	42	56	52	52	29	36	51	59	48	33	56	49	25	24	8	12	16	22	26	17	8	31	20	2	28	33	28	33.4
	Minimum	21	25	39	38	33	33	36	20	16	14	30	34	33	28	29	25	13	8	-1	-2	3	15	17	-6	-3	8	-10	-16	2	14	14	16.5
Jefferson City §§	Maximum	33	47	50	49	39	63	56	36	31	41	52	61	46	47	51	51	32	26	5	11	20	25	28	12	20	18	12	18	29	32	29	34.5
	Minimum	19	22	32	42	33	30	35	35	17	15	20	33	42	32	28	34	19	18	-1	-3	0	3	18	5	-3	5	8	-5	-5	18	21	18.3
Kirksville	Maximum	39	42	43	42	45	49	42	44	28	33	49	59	46	37	57	45	19	17	10	16	20	19	20	16	10	28	26	0	27	30	24	34.1
	Minimum	20	19	34	36	31	29	29	20	12	9	25	20	35	23	22	17	6	9	-6	-6	3	11	15	-6	-8	-1	-6	-23	-6	..	10	[a]12.4
Louisiana	Maximum	42	44	46	45	50	55	52	58	46	36	50	56	60	44	52	55	40	35	28	28	38	35	31	31	20	34	18	12	32	36	32	40.0
	Minimum	12	18	38	37	34	40	38	30	18	12	30	28	40	28	28	36	20	12	4	-5	0	14	26	0	-4	-2	5	-17	0	10	10	17.4
Macon §§	Maximum	34	45	44	48	36	53	48	34	30	46	55	50	44	37	58	27	18	15	5	20	20	25	22	12	16	30	7	10	29	34	..	[a]31.7
	Minimum	14	14	25	38	35	30	31	30	3	11	13	21	30	26	25	26	9	9	-6	-5	-5	14	13	-5	-8	-6	0	-20	-13	7	7	11.7
Mexico §§	Maximum	34	47	43	52	37	58	53	34	31	42	52	58	45	39	60	41	29	22	5	15	20	23	28	7	14	32	6	12	30	35	28	42.6
	Minimum	15	15	22	40	34	30	35	33	15	15	15	34	38	28	28	35	13	14	-7	-4	-3	1	12	1	-5	-4	6	-14	-10	12	15	14.8
St. Catharine	Maximum	33	43	44	43	46	50	43	43	29	35	49	58	48	38	56	51	21	12	8	19	22	25	28	5	11	28	28	1	24	33	30	32.4
	Minimum	14	21	36	37	32	29	31	22	14	9	25	31	38	25	25	20	7	9	-5	-5	-1	16	21	-4	-10	-2	-3	-28	4	7	14	13.8
St. Louis(1)	Maximum	35	47	46	54	49	63	57	57	33	37	52	63	54	36	54	69	37	35	20	13	20	26	30	24	12	37	24	7	30	35	32	38.3
	Minimum	21	23	39	43	37	36	41	28	23	21	33	35	36	30	30	37	28	20	4	1	9	17	23	3	3	6	-2	-8	5	29	23	21.7
Unionville	Maximum	36	43	44	40	44	46	42	40	28	34	48	56	50	36	55	47	20	12	4	14	20	24	22	15	8	27	22	0	23	35	28	31.1
	Minimum	8	20	34	34	32	30	30	20	10	8	24	30	32	22	20	14	4	4	-10	-8	-4	8	14	-10	-8	0	-5	-25	-3	4	12	11.0
Warrenton	Maximum	41	47	45	49	53	65	53	54	30	39	53	61	59	38	60	53	40	31	28	14	23	23	28	27	13	35	39	5	30	37	33	38.9
	Minimum	17	21	38	39	34	30	34	29	17	14	29	35	36	29	28	39	21	22	1	-4	1	12	21	5	-1	3	0	-13	4	21	18	18.7
Southeast Lowlands.																																	
Caruthersville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Doniphan	Maximum	49	44	55	57	64	66	65	60	42	40	58	71	62	50	59	70	70	55	48	21	25	29	33	32	22	32	30	22	32	44	44	46.8
	Minimum	16	13	38	45	30	29	37	40	24	18	21	27	38	25	28	46	38	38	13	4	9	13	22	16	2	0	7	-1	4	29	32	22.6
Jackson	Maximum	47	45	54	60	56	62	63	64	41	40	56	65	59	43	57	69	67	50	39	18	22	29	32	31	19	33	26	14	33	39	37	44.2
	Minimum	18	14	32	45	35	31	45	38	19	17	26	25	40	27	26	45	35	35	11	3	6	11	20	14	-8	-5	4	-9	-1	28	28	21.1
Poplar Bluff	Maximum	52	48	57	59	57	68	68	68	48	46	63	66	61	52	64	71	71	68	52	26	30	34	33	32	30	37	36	21	33	45	46	49.7
	Minimum	13	40	43	39	27	40	53	21	19	24	28	38	25	27	41	47	38	16	6	9	12	18	21	-3	-1	5	-1	4	12	33	26	23.2
Cairo, Ill.	Maximum	35	44	56	61	54	60	67	61	38	39	52	62	56	42	63	70	68	68	38	18	22	29	31	28	18	31	28	13	34	43	39	44.1
	Minimum	23	23	42	49	37	37	53	34	28	25	30	36	38	33	32	56	41	38	10	7	8	16	24	11	4	10	4	-3	7	33	29	26.3
Ozark Plateau.																																	
Arcadia §§	Maximum	34	41	52	53	37	64	54	52	35	42	56	65	47	42	56	64	46	39	10	15	22	23	27	18	17	34	20	13	33	33	33	38.0
	Minimum	17	12	20	39	36	26	34	40	21	17	17	29	38	25	24	24	35	30	8	0	0	4	11	14	0	-2	9	-8	-7	13	29	17.9
Birchtree	Maximum	49	45	53	55	55	70	62	56	39	45	59	70	63	52	62	69	69	51	36	21	26	27	31	30	20	37	29	14	28	40	42	45.3
	Minimum	27	20	38	45	35	34	44	35	20	11	26	30	45	26	30	51	35	36	8	0	6	11	21	11	-2	2	13	-5	5	28	31	23.1
Eldon	Maximum	45	50	50	54	43	65	62	55	40	47	58	62	45	65	71	54	32	27	31	31	30	27	30	20	19	40	21	21	32	35	33	41.8
	Minimum	18	21	38	42	28	26	35	26	16	12	23	29	34	27	30	31	18	3	-5	3	-3	12	19	-2	-4	6	-3	-11	4	20	21	16.6
Farmington	Maximum	41	41	56	52	47	65	60	58	39	39	54	64	60	42	64	68	63	34	32	10	16	28	29	25	14	34	20	15	34	31	30	40.9
	Minimum	17	19	34	41	34	29	41	34	20	17	26	32	40	30	27	54	30	32	7	0	3	10	21	11	0	5	8	-10	3	28	28	21.6
Hollister	Maximum	55	56	60	59	50	52	70	56	59	46	48	72	70	65	70	80	78	79	38	40	39	46	48	44	40	42	40	35	40	42	40	53.5
	Minimum	22	24	38	49	32	34	30	35	30	14	20	25	24	25	30	30	30	31	24	8	7	8	9	6	-5	-7	-8	-10	5	12	34	19.5
Koshkonong	Maximum	49	46	53	57	53	71	68	58	41	45	60	73	65	49	62	74	70	61	43	20	28	32	31	31	24	38	29	22	28	41	41	47.2
	Minimum	24	21	38	46	36	36	46	36	23	20	26	38	41	29	32	51	41	40	9	3	9	14	22	13	2	9	13	-2	6	28	33	25.3
Lebanon §§	Maximum	44	47	60	61	47	65	63	41	34	42	54	65	49	58	68	71	40	40	10	35	27	26	29	14	19	37	18	23	30	36	33	41.5
	Minimum	19	20	25	40	29	29	44	33	15	15	17	28	40	26	27	35	20	21	-1	-5	-3	0	15	6	-4	9	12	-10	-9	16	27	17.3
Mountain Grove §§	Maximum	56	41	45	52	55	42	56	64	40	42	42	54	64	56	52	63	72	52	34	10	19	26	26	28	14	18	37	21	19	30	37	40.9
	Minimum	21	21	25	40	30	30	38	39	18	17	17	30	36	25	30	33	32	32	5	-1	-1	5	13	13	-1	-1	7	-5	-6	16	29	18.9
Neosho	Maximum	52	44	59	56	46	63	71	63	43	45	60	65	60	64	65	74	48	41	26	17	26	35	35	33	25	39	34	29	38	40	38	46.3
	Minimum	27	24	42	42	30	31	32	28	20	14	25	31	34	27	35	41	24	19	-1	0	7	16	25	5	-1	13	10	-2	17	30	34	22.0
Rolla	Maximum	47	46	57	53	53	60	61	56	33	42	55	67	60	56	66	69	44	33	31	13	21	23	27	24	15	40	32	17	31	34	33	41.9
	Minimum	20	23	37	46	32	32	37	32	19	17	29	34	42	30	35	44	26	28	3	-2	3	14	21	5	-2	9	5	-8	15	28	25	21.9
Springfield	Maximum	40	41	55	53	40	62	59	56	32	40	55	63	53	55	61	72	44	36	7	13	23	30	28	19	17	36	26	20	28	38	35	39.9
	Minimum	25	26	38	34	29	38	40	26	18	21	30	38	37	31	40	38	23	7	-2	-2	5	16	19	1	2	13	-3	-5	14	26	27	21.0
Southwest Plain.																																	
Amoret	Maximum	41	50	51	52	44	52	62	54	31	42	60	66	65	59	62	55	32	27	13	20	23	28	26	21	20	28	33	11	36	38	38	40.1
	Minimum	20	23	28	42	30	30	35	30	16	13	25	29	39	27	27	29	15	11	-5	-2	-1	15	18	-3	-3	-5	3	-7	0	8	22	16.4
Appleton City	Maximum	50	43	53	54	42	57	67	60	36	42	55	61	56	59	63	55	31	25	10	15	21	27	26	22	18	33	29	14	32	31	33	39.5
	Minimum	22	26	41	42	32	32	46	26	16	17	26	31	42	31	31	31	14	10	-4	-3	2	12	22	1	-2	9	2	-7	8	17	23	19.2
Clinton	Maximum	65	53	53	53	54	60	65	63	38	44	58	65	66	64	67	55	32	23	10	15	21	25	27	22	15	30	30	12	32	35	31	41.5
	Minimum	35	26	41	42	32	32	36	26	17	18	26	36	40	35	36	32	15	10	-3	0	2	-3	-3	5	5	10	-6	-10	..	..	..	[c]19.0
Harrisonville §§	Maximum	38	45	55	50	37	51	56	31	35	43	55	63	49	58	61	33	16	15	8	17	20	25	24	11	19	31	10	9	30	37	26	34.2
	Minimum	20	20	24	43	32	31	33	23	15	15	16	30	35	29	31	31	10	10	-6	-6	-5	9	16	-4	-5	-5	9	-11	-11	8	8	14.4
Lamar §§	Maximum	44	47	60	57	51	58	69	37	34	42	55	62	52	60	64	57	30	20	8	13	22	29	30	10	22	35	14	23	37	32	34	39.0
	Minimum	27	26	27	45	31	30	39	29	18	18	19	27	37	28	32	38	20	19	-3	-3	0	5	21	4	-1	1	10	-5	-5	17	31	18.8
Lamonte	Maximum	32	44	47	51	41	54	62	50	32	43	56	59	58	56	67	53	25	17	6	14	25	28	24	16	21	24	24	12	34	43	34	37.2
	Minimum	17	23	41	39	30	29	34	24	15	12	23	29	28	28	29	23	11	5	-6	-6	-3	15	15	-9	-9	7	-3	-12	0	10	17	14.7
Marshall	Maximum	40	45	43	49	51	55	54	55	41	..	41	57	53	49	61	51	25	18	10	13	23	27	25	18	14	32	28	18	35	35	30	[a]36.6
	Minimum	15	15	40	42	33	27	32	25	12	..	27	30	39	29	27	25	8	10	-5	-4	-3	15	18	-5	-9	0	-2	-15	-2	10	12	[a]14.9
Nevada	Maximum	49	44	57	57	52	56	69	61	31	40	41	63	55	59	61	59	32	32	8	12	20	28	28	20	15	33	28	16	34	35	35	39.7
	Minimum	22	26	41	41	31	34	37	25	17	16	21	35	38	29	38	30	16	7	-5	-4	2	17	19	0	-1	10	0	-5	10	15	28	19.0
Warrensburg	Maximum	43	44	48	52	45	53	64	55	39	42	53	59	52	47	64	55	36	33	24	15	21	24	22	20	12	33	30	8	33	33	31	38.4
	Minimum	17	24	40	38	31	31	31	25	16	14	26	33	36	28	40	21	12	20	-4	-5	0	16	18	-3	-7	12	1	-13	0	12	17	17.2
Warsaw	Maximum	48	45	51	53	51	60	67	62	34	36	52	48	62	60	65	59	40	33	18	15	22	27	29	26	19	34	29	14	16	36	35	40.4
	Minimum	21	27	48	42	32	31	36	26	18	27	29	24	29	28	31	33	17	8	-4	-4	-2	15	4	2	-2	9	0	-8	11	9	25	18.2
Northwest Plateau.																																	
Chillicothe §§	Maximum	36	43	43	45	35	48	44	25	29	37	52	58	44	40	60	30	12	9	4	15	30	24	19	3	11	31	1	4	25	30	23	29.4
	Minimum	14	14	22	36	33	29	32	23	13	12	13	26	35	27	25	26	6	6	-7	-8	-8	-3	6	-6	-8	-8	-8	-25	-13	1	7	10.1
Grant City	Maximum	34	43	40	41	42	48	49	45	30	37	46	48	48	38	53	45	14	12	2	17	20	24	21	17	13	28	23	0	22	37	32	31.3
	Minimum	13	20	32	34	29	31	36	17	11	11	26	29	34	25	22	9	2	1	-9	-11	-5	-1	11	-14	-10	2	-5	-23	-4	5	14	10.9
Kansas City	Maximum	38	41	45	45	39	48	45	41	31	41	53	61	49	58	63	42	14	13	6	18	20	24	24	12	16	34	21	6	31	40	25	33.8
	Minimum	21	29	41	39	32	35	31	21	16	21	32	40	38	33	38	12	8	1	-5	0	7	15	12	-2	2	14	-6	-10	0	17	14	17.7
Kidder §§	Maximum	46	44	42	42	33	46	43	21	27	37	50	52	50	48	57	29	11	9	3	14	20	23	18	3	14	30	0	0	25	33	19	28.8
	Minimum	15	12	35	38	31	27	31	22	13	11	13	25	30	30	25	26	5	6	-8	-8	-6	0	11	-9	-10	-7	-3	-19	-12	0	9	10.7
Lexington §§	Maximum	51	37	43	44	46	46	51	48	43	31	41	52	55	51	51	62	31	23	16	8	16	20	26	21	19	14	34	28	6	32	33	34.9
	Minimum	18	24	37	42	33	29	33	24	15	13	29	36	36	30	28	21	10	10	-6	-3	-1	16	18	-4	-5	6	0	-13	-3	6	13	15.9
Maryville	Maximum	37	47	42	37	37	48	37	37	27	38	50	54	46	38	54	41	9	9	3	19	19	23	17	16	15	29	21	1	24	36	28	30.3
	Minimum	16	23	32	34	28	28	30	15	11	14	25	33	36	29	24	8	3	0	-8	-8	-1	8	14	-11	-10	5	-4	-20	-3	7	15	11.9
Oregon	Maximum	35	45	43	40	44	44	40	40	27	39	49	51	47	46	53	43	16	10	3	14	21	20	19	19	12	26	21	5	25	39	27	31.2
	Minimum	16	26	38	35	33	27	34	14	12	14	25	34	33	31	26	16	3	-1	-8	-5	0	8	9	-11	-6	6	-5	-17	-2	10	14	13.2
St. Joseph	Maximum	36	46	44	42	40	47	41	39	28	40	51	54	48	50	58	31	10	9	4	15	22	21	17	9	15	29	18	4	24	36	23	30.7
	Minimum	19	27	38	39	30	32	32	16	14	18	28	37	35	30	29	7	6	-2	-7	-6	1	13	9	-7	-3	12	-10	-13	-1	9	15	14.4
Trenton	Maximum	34	40	42	43	42	45	43	43	26	35	46	51	48	35	50	38	14	12	4	12	18	21	21	17	9	28	21	1	20	27	23	29.4
	Minimum	17	20	37	38	32	31	33	20	11	14	28	33	35	27	28	14	7	4	-6	-5	0	13	17	-5	-3	3	-9	-18	-1	5	14	14.1

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 1-28-25 -845.

NMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

MAR 19 1925

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXVIII. COLUMBIA, MO., YEAR, 1924. No. 13.

GENERAL SUMMARY.

While the mean values of all the weather elements of the year 1924, in Missouri, did not differ very much from the usual, at the same time the year was in some respects the most remarkable of the past decade or more.

The most noticeable part of the year probably was the cool, wet summer. If we except a part of August it was a year almost without a summer in a comparative sense. The year started with an unusually cold and snowy month; the spring was mostly cold and wet. September was unusually cold and wet. The autumn, however, was about ideal; and soothed one's feeling and thoughts, and made one forget the past unfavorable days. Missouri autumns usually make one feel, as Thoreau felt and said at the close of an ideal American autumn day, "Here has been such a day as I think Italy never sees."

Favorable outdoor weather prevailed up to about the middle of December, at which time an abrupt change to winter set in. Rain, sleet, and snow began the night of the 16th and prevailed to the 19th. All overhead objects were covered with a heavy load of ice for ten days or more. More than three-fourths of the State was covered by a solid ice sheet to the end of the month. The last fifteen days of December averaged colder than than any other similar period of record. As to the severity of the ice-storm, resulting damage, and duration of ice covered objects there is no similar spell of weather comparable with it during the past thirty years or more.

Corn planting and cultivation was much hindered by frequent rains and wet soil during May and June; considerable was abandoned to weeds and overflowed bottom lands. Wet weather and soft ground interfered with proper ripening of wheat, and harvesting the grain, as well as hay making. Quite a severe frost at the end of September damaged some late planted corn. The fine autumn was favorable for finishing up and drying out crops before the first general freeze came. The low temperatures of January killed the peach buds; other fruits were good. In spite of much adverse weather the yields of most crops averaged near normal. Fortunately there were no unusually severe wind or hailstorms during the year. The December ice-storm caused heavy property loss, probably running into millions of dollars. The traffic and utility lines of business suffered the most. Man and beast suffered from the effects of the prolonged icy conditions, and there was some loss in range live stock.

THE WEATHER BY MONTHS.

JANUARY.—One or two moderate spells, but mainly cold, with frequent precipitation, mostly snow. There were but three days with minima above freezing, the absolute minimum being 25 below zero. Unfavorable for any outdoor work. Fuel, heavy clothing trade, and transit feeds were favorably affected. Wheat was mainly covered by snow. Peach buds were generally killed.

FEBRUARY.—The outstanding feature was frequent and heavy snow. In the main the month's weather was made up of several alternating relatively cold and relatively mild spells, along with quite well defined precipitation and clear sky periods. The month was remarkably free from severe and sudden temperature changes. The weather was unfavorable from all standpoints. Snow drifts impeded railway traffic. Country and town exchanges were carried on mostly by horseback or horse-drawn vehicles. Wheat was dormant, and locally damaged.

MARCH.—Mainly cold, cloudy, and wet. Heavy snows, persistent cold the first three weeks, and strong winds, thunderstorms with hail on the 28th and 29th were the more marked features. Outdoor work and farm activities in particular were nearly at a standstill. Highways were almost impassable. The usual spring seeding was much delayed. Winter wheat came through in fair condition. The main fruits were dormant, except in the extreme southeast.

APRIL.—The month opened with snow, and the first week was mainly cold. From on and after the 8th the month was made up of relatively warm and cool periods, the former lasting longer than the cool spells. Frost occurred on the 22d. There was little or no damage, chiefly because of the backward condition of all vegetation. The month averaged warmer and drier than normal, and the usual farm work made considerable progress. There was little planting, however, owing to rather cold soil. Wheat did fairly well. Pastures, meadows, as well as other vegetation were very backward.

MAY.—The first week, excepting the first day, was mild and rather dry. The remainder of the month was mostly cold and unseasonable. The coldest spells were attended by cloudy, wet weather which prevented any serious frost damage. The precipitation was unevenly distributed, being somewhat excessive in the southern half of the State, and deficient in the northern half. Generally unfavorable for farming interest, which was backward.

JUNE.—A month of persistent cool weather, excessive cloudiness, and frequent copious rains. A large number of severe thunderstorms, and some high winds, and damaging hail. Generally unfavorable for farming interests. Because of lack of warmth, sunshine, and proper cultivation, corn plants were small, off color, and grassy. Wheat harvest delayed by rain and soft ground. Main rivers bankful, and smaller streams out of banks.

JULY.—Uniformly low temperatures for the season, much cloudiness and rain, and a few rather severe local storms were the outstanding features. One of the coolest Julys on record. The usual farm work was much hindered by wet weather. Corn improved somewhat, but backward. All grasses made fine growth.

AUGUST.—The only real summer month of the season. From about the 9th to the 19th was mainly cooler than normal, but warm to excessively warm weather prevailed the first week and last ten days, which was needed and favorably affected all crops. Thunderstorms were numerous but mostly of a mild type. There was, as a rule, too much rain for general needs.

SEPTEMBER.—Unusually cool month, one of the coolest Septembers of record. Normal warmth obtained on not more than five or six days. Frosts ranging from light to killing, occurred generally on the 30th. Corn stood in need of warm, drying-out weather. While no excessively heavy rains occurred, the rainy spells were too frequent when considered with the lack of warmth. Preparation for fall seeding made good progress, save in some of the wettest counties.

OCTOBER.—After the first week, the weather was about ideal throughout the State for all outdoor pursuits, and drying out corn. About the driest October since 1917, and the warmest in about 20 years or more. Much wheat was up and looking fine, moisture being sufficient for needs, save in the southeastern lowlands. A general and killing frost occurred during the fourth week, but was not early enough to find any crops subject to injury.

(Continued on Page 53.)

Climatological data for Year, 1924.

Stations	Counties	Elevation, feet	Temperature (Degrees Fahrenheit)						Precipitation (inches)							Number of days				Prevailing direction of wind.
			Length of record, yrs.	Annual mean	Highest	Date	Lowest	Date	Length of record, yrs.	Total	Greatest monthly	Month	Least monthly	Month	Total snowfall	With precip. .01 inch or more	Clear	Partly cloudy	Cloudy	
Northeast Plain.																				
Brunswick	Chariton	652	46	52.0	98	Aug. 20	−22	Dec. 28	46	40.45	9.59	June	1.11	Nov.	62.2	107	211	0	155	se.
Clifton Hill	Randolph	731	26	50.9	96	" 20	−26	" 28	16	33.62	6.19	"	1.22	"	39.6	106	146	105	115	.....
Columbia	Boone	748	35	....	95	" 20	−16	Jan. 5	35	41.48	7.72	"	1.22	Jan.	32.8	126	146	101	119	se.
Downing	Schuyler	878	4	49.9	95	" 20†	−23	Dec. 28	16	38.75	8.97	"	0.56	Nov.	39.5	89	149	110	107	w.
Fayette	Howard	661	45	....	96	" 21	−22	Jan. 5	42	31.53	7.56	"	0.84	"	44.6	88	....	....	....	.....
Fulton	Callaway	818	37	52.0	94	" 21†	−16	" 5†	33	42.89	8 66	"	1.13	Jan.	35.6	121	184^{a}	108^{a}	73^{a}	sw.
Gorin	Scotland	700	..	....	..	....	....	....	38	32.93	7.29	"	0.71	Nov.	20.5	94	136	89	141	sw
Hannibal	Marion	534	33	51.6	97	Aug. 5	−16	Jan. 5†	41	31.25	6.38	"	1.10	Jan.	29.2	122	142	105	119	sw.
Jefferson City	Cole.	557	37	52.6	94	" 27†	−17	" 5	41	39.01	5.75	"	1.50	Feb.	29.9	103	218	67	81	s.
Kirksville	Adair.	969	36	49.9	96	" 3	−23	Dec. 28	43	30.57	7.59	"	0.60	Nov.	34.8	71	186	42	138	nw.
Louisiana	Pike	469	31	52.9	102	July 16	−17	" 28	44	41.29	5.20	"	1.18	Jan.	47.2	113	243	48	75	w.
Macon	Macon	875	26	50.7	99	Aug. 4†	−20	Jan. 5†	32	35.35	7.03	"	1 19	"	34.4	109	181	86	99	sw.
Mexico	Audrain	800	36	51.9	100	" 5	−15	" 5	47	38.50	6.58	"	1.19	Nov.	42.2	121	229	14	123	w.
St. Catharine	Linn	800	14	50.8	94	" 5†	−28	Dec. 28	14	30.85	7,31	"	0.62	"	48.0	111	146	137	83	nw.
St. Charles	St. Charles	456	37	54.0	98	June 24	−13	Jan. 5	47	40.62	6.20	May	1.22	Oct.	25.5	89	132	107	127	s.
St. Louis (1)	St. Louis City	717	51	54.5	95	Aug. 27	−11	" 5	88	36.51	6.80	June	0.30	"	25.2	119	138	101	127	s.
St. Louis (2)	......do	578	13	53.9	95	" 4†	−13	" 5	13	36.50	5.76	May	0.49	"	24.7	115	164	102	100	nw.
Steffenville	Lewis	650	27	52.4	100	" 27	−26	Dec. 28	32	35.28	6.96	June	0.77	Nov.	48.0	85	145^{b}	136^{b}	83^{b}	s.
Unionville	Putnam	1,062	32	49.9	95	July 16†	−25	" 28	32	35.85	10.64	"	1.10	Jan.	29.0	80	160	81	125	n.
Warrenton	Warren	816	43	53.1	96	Aug. 20	−17	Jan. 5	35	39.77	7.10	"	1.25	"	29.0	100	183	74	109	nw.
Keokuk, Iowa	Lee, Iowa	574	53	50.6	97	" 5	−19	" 5	53	31.10	5.94	"	0.50	Nov.	35.9	103	123	95	148	w.
Section means and	extremes	....	..	51.9	102	July 16	−28	Dec. 28	..	36.39	10.64	June	0.30	Oct.	36.1	103	168	85	113	s.
Southeast Lowlands.																				
Doniphan	Ripley	344	21	55.8	98	Aug. 5	− 3	Jan. 5†	21	34.29	5.43	May	0.14	Oct.	13.8	81	128	164	74	w.
Jackson	Cape Girardeau.	428	34	55.2	97	" 21†	− 9	Dec. 28	35	39.15	5.84	June	0.18	"	26.5	109	90	87	189	n.
Marble Hill	Bollinger	470	30	55.3	95	" 21†	− 7	Jan. 5†	31	41.71	8.12	"	0.40	"	18.5	100	188	96	82	n.
Parma	New Madrid	281	..	....	..	....	....	....	4	40.89	8.57	July	0.10	"	....	76	....	....	....	.....
Patton	Bollinger	500	..	....	..	....	....	....	16	36.48	6 63	June	0.45	"	20.0	59	....	....	....	.....
Poplar Bluff	Butler	339	21	56.3	100	Aug. 5†	− 3	Jan. 5†	21	33.53	6.76	May	0.10	"	9.9	88	229	49	88	s.
Cairo, Ill	Alexander, Ill.	359	50	56.5	95	" 4	− 4	" 5	53	33.45	5.64	"	0.14	"	8.9	112	121	115	130	s.
Section means and	extremes	....	..	55.8	100	Aug. 5†	− 9	Dec. 28	..	37.07	8 57	July	0.10	Oct.	16.3	89	151	102	113	n.
Ozark Plateau.																				
Arcadia	Iron	926	44	51.4	91	Aug. 27	−11	Jan. 5	47	39.80	5.92	July	0.88	Oct.	25.1	104	198	62	106	s.
Birchtree	Shannon	1,000	30	54.8	93	July 24†	− 9	" 5	31	36.46	6.22	May	0 00	"	17.0	77	222	62	82	s.
Bolivar	Polk	1,071	31	....	95	June 24†	−12	" 5	38	49.66	8.11	July	1.47	"	18.7	94	181^{b}	94^{b}	89^{b}	sw.
Eldon	Miller	934	29	52.5	98	Aug. 28	−11	Dec. 28	26	38.04	10.24	June	1.17	Jan.	38.0	74	123^{m}	141^{m}	89^{m}	sw.
Farmington	St. Francis	918	14	53.4	96	June 13†	−13	Jan. 5	28	40.18	6.15	May	0.51	Nov.	34.7	106	152	130	84	sw.
Gano	Dent	1,250	21	53.8	98	Aug. 20	−16	" 5	24	49.73	6.79	July	0.52	Oct.	32.6	110	178	86	102	nw.
Goodland	Iron	1,000	31	52.8	95	" 28	−11	" 5	32	41.11	6.44	"	1.05	Nov.	23.5	77	189	86	91	s.
Greenville	Wayne	381	3	54.8	95	" 4†	− 7	Dec. 25	3	39.17	7.01	"	0.00	Oct.	19.6	71	226	70	70	s
Hollister	Taney	735	38	55.7	98	" 28	−12	Jan. 6	22	44.77	7.20	"	0.20	"	20 1	64	170	85	111	sw.
Koshkonong	Oregon	958	24	56.7	96	July 24†	− 5	" 5	24	44.39	7.93	Aug.	0.26	"	27.0	90	155^{c}	73^{c}	135^{c}	sw.
Lebanon	Laclede	1,265	37	52.7	101	Aug. 23	−15	" 5	38	49.00	9.51	"	0.55	"	22.6	107	203	67	96	s.
Lockwood	Dade	1,078	19	54.4	94	" 28	−10	" 5	29	54.55	10.72	July	1.26	Jan.	29.7	78	235^{a}	35^{a}	95^{a}	sw.
Mountain Grove	Wright	1,463	24	53.4	94	July 24†	−11	" 5	26	46.22	7.22	Aug.	0.51	Oct.	16.0	107	176	107	83	se.
Neosho	Newton	1,011	37	56.1	95	Aug. 29	− 6	" 5	42	47.16	7.80	July	1.38	"	19.5	87	226	70	70	sw.
Rolla	Phelps	1,099	25	55.1	97	" 8	−13	" 5	41	43.84	7.61	June	1.13	"	33.9	87	183	99	84	sw.
Seligman	Barry	1,542	23	55.1	94	July 23†	− 8	" 5	23	46.62	8.07	"	1.33	Jan.	25.5	80	193^{p}	90^{p}	67^{p}	sw.
Seymour	Webster	1,642	19	....	92	" 24†	−12	" 5	19	45.63	10.71	"	0.73	Oct.	15.1	92	189^{l}	86^{l}	79^{l}	s.
Springfield	Greene	1,350	37	53.8	91	" 16†	−11	" 5	37	45.13	7.61	"	0.85	"	19.0	115	201	88	77	s.
Section means and	extremes	....	..	54.2	101	Aug. 23	−16	Jan. 5	..	44.53	10.72	July	0.00	Oct.	24.3	90	190	85	90	sw.
Southwest Plain.																				
Appleton City	St. Clair	853	31	54.5	94	July 16†	−12	Jan. 5	33	47.24	9.46	June	1.59	Jan.	19.2	116	163	148	55	sw.
Clinton	Henry	765	32	56.7	100	Aug. 5	−12	" 5	38	47.96	9.76	"	1.66	"	33.0	98	169^{q}	102^{q}	78^{q}	sw.
Harrisonville	Cass	904	48	51.8	96	" 27	−15	" 5	50	33.02	5.07	"	1.36	"	28.5	103	90	20	256	nw.
Lamar	Barton	980	38	53.8	97	" 28	− 9	" 5†	44	50.52	8.75	July	1.73	"	26.0	101	186	86	94	sw.
Lamonte	Pettis	867	24	53 0	100	" 28	−19	" 5	38	38.51	8.81	June	1.10	Nov.	38.6	107	178	108	80	se.
Marshall	Saline	779	36	52.7	97	" 27	−16	" 5	36	39.31	8.16	"	1.36	"	45.6	97	141^{o}	121^{o}	89^{o}	nw.
Nevada	Vernon	862	32	54.4	98	" 28	−11	" 5	33	47.06	7.52	July	1.32	Oct.	23.0	79	201^{a}	69^{a}	95^{a}	s.
Warrensburg	Johnson	878	38	53.9	99	" 28	−17	" 5†	45	37.92	11.23	June	1.13	"	38 5	105	143^{l}	125^{l}	86^{l}	sw.
Warsaw	Benton	687	25	54.4	97	" 28	−14	" 5	30	53.88	12.61	"	1.31	Nov.	44.0	94	164	124	78	w.
Section means and	extremes	....	..	53.9	100	Aug. 5†	−17	Jan. 5†	..	43.94	12.61	June	1.10	Nov.	32.9	100	161	102	103	sw.
Northwest Plateau.																				
Avalon	Livingston	730	35	52.0	96	Aug. 20	−20	Jan. 5†	28	37.10	9.60	June	0.90	April	36.4	72	....	....	....	sw.
Chillicothe	Livingston	779	16	49.7	96	" 3†	−25	Dec. 28	19	36.04	12.16	"	0.50	"	27.3	91	189	100	77	nw.
Conception	Nodaway	980	36	50.6	98	" 20	−25	Jan. 5	41	34.07	10.53	"	0.50	Jan.	20.3	80	144	141	81	sw.
Edgerton	Platte	856	5	51.4	98	July 16	−23	Dec. 28	13	33.70	10.29	"	0.42	"	28.4	97	267^{b}	15^{h}	76^{h}	s.
Grant City	Worth	1,134	21	....	96	Aug. 26	−23	Jan. 5†	33	33.56	9.62	"	0.61	Oct.	24.5	62	145^{a}	160^{a}	60^{a}	nw.
Kansas City	Jackson	963	36	53.3	97	July 16	−15	" 5	36	33.43	7.87	"	1.01	"	34 7	116	161	119	86	s.
Kidder	Caldwell	1,020	32	49.7	99	Aug. 5†	−21	" 5†	37	39.89	12.38	"	0.48	April	28.7	98	202	49	115	nw.
Lexington	Lafayette	688	40	53.0	97	" 28	−17	" 5	43	44 26	8.29	July	1.28	Jan.	40.3	107	173	99	84	s.
Maryville	Nodaway	1,036	35	50.3	100	" 26	−24	" 5	31	31.82	13.53	June	0.07	Oct.	24.9	85	193^{a}	36^{a}	136^{a}	n.
Oregon	Holt	1,048	69	50.4	94	" 26	−21	" 5	69	32.44	8.07	"	0.58	"	30.3	80	165	119	82	nw.
St. Joseph	Buchanan	967	17	51.8	98	July 16	−19	" 5	53	35.87	10.36	"	0.62	April	31.4	118	180	104	82	nw.
Tarkio	Atchison	916	22	49.2	99	" 23	−22	" 5	32	31.19	10.02	"	0.24	Jan.	30.7	73	161	91	114	nw.
Trenton	Grundy	822	29	50.0	92	Aug. 5	−19	" 5	30	36.53	9.77	"	1.14	Nov.	23.1	97	193	98	75	s.
Section means and	extremes	....	..	51.0	100	Aug. 26	−25	Jan. 5†	..	35.38	13.53	June	0.07	Oct.	29.3	90	181	96	89	nw.
State means and	extremes	....	..	52.9	102	July 16	−28	Dec. 28	..	40.01	13.53	June	0.00	Oct.	29.4	94	170	94	102	sw.

† Also on other dates.

a, b, c, indicate the number of days missing from records, a, 1; b, 2; c, 3; etc.

Monthly and Annual Precipitation for the Year 1924, with Departures.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual	
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
Northeast Plain.																										
Boonville	1.27	-0.60	1.84	-0.58	2.05	-0.98	1.18	-2.73	4.36	-0.87	7.15	+1.68	5.49	+1.57	2.92	-0.81	4.55	-0.14	2.37	-0.46	1.12	-1.19	3.02	+1.11	37.32	-4.00
Brunswick	1.65	+0.02	1.34	-0.51	1.80	-0.76	1.31	-2.17	4.04	-0.84	9.59	+4.40	6.88	+2.24	2.43	-1.46	4.99	+0.60	2.61	-0.12	1.11	-0.86	2.70	+1.08	40.45	+1.62
Clifton Hill	1.65	+0.05	1.70	+0.37	1.66	-0.99	1.38	-2.98	3.09	-2.05	6.19	+1.85	5.19	+1.31	2.64	-1.39	3.55	-1.31	2.68	+0.56	1.22	-0.69	2.67	+1.27	33.62	-4.00
Columbia	1.22	-1.01	1.95	-0.27	1.81	-1.22	1.46	-2.24	5.11	+0.25	7.72	+3.34	5.70	+2.05	3.09	+0.05	4.99	+2.14	2.17	-0.25	1.50	-0.81	4.76	+2.75	41.48	+4.78
Downing	1.07	-0.66	2.24	+0.84	2.66	+0.30	0.95	-2.80	2.95	-1.46	8.97	+4.59	3.99	-0.94	7.11	+3.59	4.03	-0.68	1.21	-0.99	0.56	-1.07	3.01	+1.55	38.75	+2.27
Fayette	1.07	-0.92	1.40	-0.50	1.67	-1.14	1.44	-2.10	4.10	-0.52	7.56	+3.02	3.23	-0.42	2.46	-0.76	3.51	-1.32	1.55	-0.93	0.84	-1.16	2.70	+1.07	31.53	-5.68
Fulton	1.13	-1.22	2.11	+0.22	1.72	-1.32	2.26	-2.07	6.04	+1.27	8.66	+4.46	3.62	-0.37	3.37	-0.14	3.72	-0.67	3.26	+0.51	2.04	-0.21	4.96	+3.04	42.89	+3.50
Gorin	1.33	-0.22	1.06	-0.43	2.08	-0.38	1.28	-2.72	3.04	-1.57	7.29	+3.38	3.27	-0.76	4.78	+1.78	2.50	-1.79	2.70	+0.32	0.71	-1.25	2.89	+1.20	32.93	-2.44
Hannibal	1.10	-1.10	1.35	-0.32	2.57	-0.19	1.96	-1.29	3.80	-1.20	6.38	+2.86	2.23	-1.52	2.54	-0.84	2.02	-1.54	2.80	+1.16	1.14	-0.81	3.36	+1.71	31.25	-3.08
Hermann	1.07	-1.08	1.61	-0.62	2.75	-0.26	1.86	-2.08	6.88	+2.50	10.99	+6.67	6.12	+2.47	4.09	+0.90	3.18	-0.85	2.11	-0.68	2.80	+0.08	3.86	+2.04	47.32	+9.09
Jefferson City	1.61	-0.61	1.50	-0.59	2.41	-0.41	1.79	-1.75	4.88	+0.33	5.75	+1.73	4.41	+0.39	4.70	+1.64	3.90	+0.62	1.90	-0.69	1.75	-0.52	4.41	+2.56	39.01	+2.70
Kirksville	0.96	-0.57	1.70	-0.12	3.11	+0.34	0.56	-3.08	2.53	-2.68	7.59	+3.32	2.14	-2.31	5.84	+2.52	1.85	-2.46	1.05	-1.68	0.60	-1.16	2.64	+1.00	30.57	-6.88
Louisiana	1.18	-0.84	2.33	-0.02	4.31	+1.41	2.42	-0.96	5.34	+0.78	5.20	+1.25	4.65	+1.53	5.07	+1.34	2.07	-1.88	2.94	+0.31	2.07	-0.21	3.71	+2.02	41.29	+4.73
Macon	1.19	-0.46	1.66	-0.29	2.82	+0.13	1.11	-2.08	3.26	-1.31	7.03	+2.62	3.18	-0.58	4.62	+1.34	3.36	-0.85	2.85	+0.12	1.20	-0.73	3.07	+1.67	35.35	-0.42
Mexico	1.43	-0.62	1.83	-0.38	2.36	-0.43	2.51	-1.16	5.28	+0.52	6.58	+1.80	3.29	-0.46	2.22	-1.03	4.05	-0.63	2.66	+0.28	1.19	-1.13	5.10	+3.10	38.50	-0.14
Milan	1.30	.....	1.00	.....	1.97	.....	0.52	.....	2.47	.....	7.31	.....	2.96	.....	5.92	.....	2.18	.....	1.28	.....	0.80	.....	2.40	.....	30.11	.....
Pacific	1.99	-0.42	1.54	-0.80	2.87	-0.84	1.70	-2.38	8.21	+3.22	5.85	+1.48	4.14	+0.06	3.39	-0.43	2.31	-1.55	0.47	-2.48	1.83	-0.92	4.34	+2.28	38.64	-2.78
Palmyra	.....	.....	1.09	-0.86	.....	.....	1.97	-1.65	3.26	-1.45	6.70	+2.25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
St. Catharine	1.28	+0.04	1.10	-0.14	2.61	-0.06	0.89	-2.64	2.26	-2.44	7.31	+2.53	3.76	-0.81	3.03	-0.67	4.16	+0.06	1.57	-0.39	0.62	-1.11	2.26	+0.98	30.85	-4.65
St. Charles	1.34	-0.93	1.71	-0.92	2.86	-0.23	1.07	-2.61	6.20	+2.02	5.50	+1.54	4.22	+0.99	5.18	+1.72	4.42	+1.14	1.22	-1.45	2.14	-0.40	4.76	+2.89	40.62	+3.76
St. Louis(1)	1.15	-1.12	1.29	-1.58	3.24	-0.19	1.90	-1.62	6.18	+1.94	6.80	+2.33	3.62	+0.19	3.90	+1.24	1.97	-0.94	0.30	-2.11	1.53	-1.35	4.63	+2.40	36.51	-0.81
St. Louis(2)	1.28	-1.79	1.47	-0.84	2.79	-0.16	1.71	-2.30	5.76	+1.52	5.17	+1.41	3.16	+0.41	4.95	-0.66	2.89	-1.75	0.49	-3.30	1.55	-0.76	5.28	+3.18	36.50	-5.04
Shelbina	1.10	-0.62	.....	.....	.....	.....	.....	.....	.....	.....	5.52	+0.81	3.18	-0.98	3.47	+0.62	2.79	-1.19	1.98	-0.74	0.84	-1.24	2.55	+0.94	.....	.....
Steffenville	1.69	-0.50	1.50	-0.35	4.35	+1.44	1.90	-1.71	2.84	-2.11	6.96	+2.86	3.38	-1.05	3.85	+0.38	2.92	-1.27	1.48	-0.64	0.77	-1.16	3.64	+2.08	35.28	-2.03
Union	1.36	.....	1.94	.....	2.85	.....	2.61	.....	6.57	.....	7.70	.....	4.86	.....	5.59	.....	3.71	.....	0.46	.....	2.05	.....	5.25	.....	44.95	.....
Unionville	1.10	-0.74	1.70	-0.13	2.27	-0.12	1.05	-2.76	2.60	-2.36	10.64	+5.96	4.25	-0.04	4.45	+0.49	2.10	-2.51	1.40	-1.06	1.39	-0.43	2.90	+1.26	35.85	-2.44
Valley Park	1.18	.....	1.60	.....	2.49	.....	1.92	.....	6.88	.....	8.31	.....	3.31	.....	4.53	.....	2.60	.....	0.63	.....	1.82	.....	4.89	.....	40.16	.....
Warrenton	1.25	-1.13	1.76	-0.43	2.02	-1.35	1.22	-3.09	5.58	+0.79	7.10	+3.14	5.05	+1.63	2.32	-0.86	3.34	-0.70	2.54	-0.32	2.87	+0.28	4.72	+2.59	39.77	+0.55
Keokuk, Ia.	1.31	-0.38	0.93	-0.75	1.96	-0.41	2.07	-1.27	2.39	-1.86	5.94	+1.59	4.85	+0.82	5.60	+2.36	1.70	-2.27	1.66	-0.83	0.50	-1.35	2.19	+0.32	31.10	-4.03
Southeast Lowlands																										
Cape Girardeau	2.65	-1.27	2.06	-0.12	1.89	-1.52	2.21	-1.73	5.50	+1.23	6.21	+2.49	3.96	+1.06	2.04	-2.23	1.83	-0.49	0.15	-3.09	1.75	-1.59	3.88	+0.59	34.13	-6.67
Caruthersville	4.44	-0.31	2.77	-1.03	2.16	-1.84	2.86	-1.26	7.03	+2.77	3.88	-0.10	2.48	-0.93	1.00	-2.57	3.20	+0.10	0.75	-2.21	4.11	+0.26	.....	.....	.....	.....
Doniphan	2.45	-1.76	2.33	-0.82	2.94	-0.65	2.95	-2.42	5.43	+1.27	5.21	+0.83	3.28	-1.45	2.75	-1.56	2.10	-1.54	0.14	-2.91	1.13	-1.99	3.58	+0.25	34.29	*12.75
Jackson	1.99	-1.73	2.98	+0.09	2.50	-1.84	2.35	-2.12	4.83	+0.47	5.84	+1.55	5.73	+2.21	3.10	-0.51	3.08	-0.47	0.18	-3.04	2.39	-0.74	4.18	+0.98	39.15	-5.15
Leeper	.....	.....	1.79	.....	1.37	.....	1.95	.....	4.45	.....	2.59	.....	6.31	.....	4.92	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Marble Hill	2.99	-0.54	2.68	-0.60	3.17	-1.01	1.75	-2.69	5.90	+1.67	8.12	+3.95	5.72	+1.04	2.79	-0.71	1.86	-1.77	0.40	-2.25	2.22	-0.95	4.11	+0.78	41.71	-3.08
New Madrid	3.85	-1.51	2.29	-1.56	2.30	-2.95	3.09	-1.26	5.46	+0.87	4.62	+0.41	14.52	†10.61	3.83	-0.05	1.67	-1.64	0.10	-3.15	2.16	-1.69	5.04	+0.68	48.93	-1.24
Parma	2.88	.....	1.64	.....	2.94	.....	2.85	.....	5.10	.....	3.62	.....	8.57	.....	2.73	.....	2.37	.....	0.10	.....	2.62	.....	5.47	.....	40.89	.....
Patton	2.17	-0.88	2.27	+0.33	2.15	-1.91	1.97	-1.51	5.05	+0.27	6.63	+2.96	3.65	-0.09	2.94	-1.60	3.87	-0.66	0.45	-2.72	1.25	-0.98	4.08	+1.06	36.48	-3.73
Poplar Bluff	2.65	-1.32	2.19	-0.77	2.16	-2.36	2.22	-2.25	6.76	+1.73	2.62	-2.40	4.92	+1.37	3.42	-0.85	1.82	-1.76	0.10	-3.10	1.92	-1.34	2.75	-1.43	33.53	*14.48
Vanduser	2.02	-2.21	.....	.....	2.28	-2.22	2.34	-1.92	4.85	+0.69	2.78	-1.10	5.62	+0.85	2.25	-1.56	2.93	+0.07	0.09	-2.51	2.69	-0.96	1.46	-2.55	.....	.....
Cairo, Ill.	2.67	-1.15	1.47	-1.97	1.28	-2.74	2.49	-1.08	5.64	+1.81	4.78	+0.47	3.73	+0.28	2.84	-0.09	2.84	+0.37	0.14	-2.49	1.81	-2.21	3.76	+0.43	33.45	-8.27
Ozark Plateau																										
Annapolis	1.34	.....	2.66	.....	.....	.....	1.65	.....	4.34	.....	5.99	.....	5.98	.....	4.32	.....	1.87	.....	.....	.....	1.74	.....	3.52	.....	.....	.....
Arcadia	1.56	-1.66	2.85	-0.31	3.09	-0.98	1.14	-3.48	4.63	-0.15	4.62	+0.04	5.92	+1.68	4.85	+1.13	5.64	+2.00	0.88	-2.19	1.61	-2.01	3.01	+0.03	39.80	-5.90
Birchtree	1.54	-1.52	1.83	-0.66	2.00	-2.25	1.94	-2.78	6.22	+1.91	5.78	+1.25	5.53	+1.54	4.42	+0.03	2.01	-1.58	0.00	-2.58	2.84	-0.05	2.35	-0.22	36.46	-6.91
Bolivar	2.43	+0.54	1.50	-0.79	3.54	+0.50	3.52	-0.47	5.73	+0.31	7.65	+2.63	8.11	+4.36	7.26	+3.58	3.86	-0.24	1.47	-1.84	2.40	-0.13	2.19	-0.21	49.66	+8.24
Dean	.....	.....	2.43	+0.60	2.36	-0.99	6.32	+2.28	4.23	-1.73	.....	.....	7.31	+3.26	4.29	+0.02	5.10	+1.48	1.55	-1.94	1.49	-1.55	3.50	+1.38	.....	.....
De Soto	1.76	.....	1.52	.....	3.24	.....	2.70	.....	7.11	.....	5.20	.....	5.36	.....	5.53	.....	3.26	.....	0.32	.....	1.04	.....	2.91	.....	39.95	.....
Eldon	1.17	-0.37	1.86	-0.24	2.42	-0.41	2.30	-2.16	3.35	-1.51	10.24	+5.93	5.93	+2.27	2.13	-1.85	1.65	-2.15	1.34	-1.69	3.14	+0.93	2.51	+0.35	38.04	-0.90
Farmington	1.69	-0.66	2.19	-1.10	3.71	+0.44	3.26	-0.70	6.15	+0.65	5.99	+1.36	5.06	+1.51	3.48	+0.10	4.54	+1.32	0.82	-2.07	0.51	-3.45	2.78	+0.07	40.18	-2.53
Fredericktown	2.97	.....	1.92	.....	5.58	.....	2.45	.....	4.18	.....	6.75	.....	8.59	.....	3.67	.....	8.92	.....	2.50	.....	2.11	.....	4.46	.....	54.10	.....
Galena	1.20	-1.16	1.27	-0.81	2.50	-1.37	3.38	-0.10	4.84	-0.40	9.62	+6.06	8.15	+3.82	2.67	-0.97	7.78	+3.65	0.20	-2.24	3.09	+0.19	3.08	+0.46	47.78	+7.13
Gano	1.26	-1.59	2.08	-0.30	3.36	+0.06	3.67	-0.88	5.28	+0.74	6.26	+1.96	6.79	+3.29	7.11	+2.70	5.39	+1.13	0.52	-3.36	2.61	+0.30	5.40	+3.39	49.73	+7.44
Goodland	1.48	-1.39	1.93	-0.56	4.15	-0.10	2.75	-2.34	4.85	+0.23	4.49	+0.39	6.44	+2.26	5.89	+1.86	3.99	+0.26	1.51	-1.71	1.05	-1.84	2.58	+0.10	41.11	-2.84
Greenville	2.16	.....	2.56	.....	1.14	.....	1.77	.....	3.88	.....	5.08	.....	7.01	.....	5.65	.....	3.35	.....	0.00	.....	2.00	.....	4.57	.....	39.17	.....
Hollister	0.80	-1.81	1.38	-0.70	3.64	+0.41	3.30	-1.27	5.30	+1.07	5.45	+1.44	7.20	+3.28	5.00	+1.03	5.10	+1.39	0.20	-2.63	2.60	-0.18	4.80	+2.53	44.77	-3.53
Jerome	1.28	-0.78	1.18	-1.31	2.18	-0.48	2.33	-1.48	6.92	+2.46	8.21	+4.68	6.17	+2.94	2.93	-1.31	5.43	+2.05	0.55	-1.32	2.40	-0.08	4.90	+3.41	44.48	+8.78
Koshkonong	2.01	-1.53	2.66	-0.13	2.89	-0.92	3.99	-0.98	4.08	-0.76	7.44	+2.96	3.16	-0.76	7.93	+3.48	3.73	+0.34	0.26	-2.65	1.92	-1.10	4.32	+1.16	44.39	-0.89
Lebanon	2.99	+0.54	2.73	+0.23	2.84	-0.61	3.39	-0.79	5.67	+0.06	6.61	+1.68	4.80	+0.68	9.51	+5.98	4.70	+0.61	0.55	-2.71	2.31	-0.23	2.90	+0.30	49.00	+5.74
Lockwood	1.26	-0.40	1.56	-0.41	2.17	-0.29	3.31	-0.35	6.74	+1.66	9.51	+4.74	10.72	+5.85	7.76	+3.59	3.39	-0.61	1.83	-1.62	2.48	+0.27	3.79	+1.85	54.55	†14.28
Mountain Grove	1.06	-1.81	0.80	-1.46	2.37	-1.97	3.18	-1.60	5.81	+0.96	6.17	+1.61	6.94	+2.94	7.22	+2.82	3.83	-0.21	0.51	-2.54	1.63	-0.80	6.70	+4.47	46.22	+2.41
Neosho	1.83	-0.67	2.07	-0.31	2.31	-1.16	4.22	+0.10	6.31	+0.24	5.15	-0.28	7.80	+3.62	5.20	+1.11	5.18	+0.96	1.38	-2.01	2.81	-0.25	2.90	+0.36	47.16	+1.71
Rolla	1.43	-1.02	1.62	-0.72	2.47	-1.12	1.72	-2.94	7.43	+2.42	7.61	+3.48	5.65	+1.56	3.67	-0.41	3.73	-0.11	1.13	-1.82	2.16	-0.15	5.22	+3.15	43.84	+2.32
Seligman	1.33	-0.91	1.52	-0.36	3.41	-0.53	4.31	+0.38	2.50	-2.09	8.07	+4.54	7.08	+2.68	4.72	+0.73	5.48	+1.36	1.95	-0.99	2.98	+0.62	3.27	+0.70	46.62	+6.13
Seymour	1.13	-1.57	0.60	-1.85	3.07	-0.99	2.50	-1.46	4.64	-1.06	10.71	+6.08	5.98	+1.17	4.27	+0.43	4.58	0.00	0.73	-2.28	2.31	+0.01	5.08	+3.03	45.63	+1.51
Springfield	1.50	-1.16	1.23	-1.15	2.77	-1.30	3.22	-0.64	6.02	+0.47	7.61	+2.42	5.92	+1.13	5.97	+1.66	4.12	+0.36	0.85	-1.95	1.71	-0.93	4.21	+1.54	45.13	+0.45
Steelville	1.48	-0.37	2.37	+0.11	2.72	+0.64	2.59	-1.72	8.07	+3.73	4.71	+0.56	4.67	+1.47	4.48	+0.97	3.30	+0.10	0.55	-2.66	1.51	-1.17	4.89	+2.98	41.34	+4.64
Tuscumbia	1.74	.....	1.63	.....	2.34	.....	3.41	.....	5.09	.....	8.22	.....	4.77	.....	2.67	.....	2.93	.....	1.17	.....	3.12	.....	3.99	.....	41.08	.....
Willow Springs	1.79	.....	1.78	.....	2.38	.....	2.63	.....	6.37	.....	5.75	.....	5.87	.....	6.36	.....	3.82	.....	1.09	.....	2.23	.....	3.67	.....	43.74	.....
Southwest Plain																										
Amoret	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.17	+1.27	1.85	-0.67	2.44	+0.78	5.28	+3.69	.....	.....
Appleton City	1.59	-0.24	2.65	+0.68	2.29	-0.78	2.40	-1.86	4.46	-1.08	9.46	+4.47	8.99	+4.36	2.37	-1.37	6.88	+3.21	1.83	-0.51	2.13	0.00	2.19	+0.55	47.24	+7.37
Clinton	1.66	-0.32	2.41	+0.31	2.39	-0.47	2.47	-1.57	6.06	+0.62	9.76	+5.03	7.74	+3.80	3.59	+0.23	3.81	-0.01	2.84	+0.03	1.90	+0.02	3.33	+1.60	47.96	+9.27
Harrisonville	1.36	-0.24	1.72	-0.30	1.41	-1.28	2.31	-1.08	2.62	-2.19	5.07	+0.61	4.50	+0.72	3.98	-0.17	4.20	-0.16	2.06	-0.53	1.37	-0.58	2.42	+0.64	33.02	-4.56
Joplin	1.44	-0.64	2.59	+0.59	1.88	-1.01	3.05	-1.20	8.68	+3.52	5.19	-0.15	5.55	+1.14	8.11	+3.85	6.26	+3.01	0.46	-2.84	1.90	-0.66	2.75	+0.89	47.86	+6.50
Lamar	1.73	+0.03	3.00	+0.77	1.92	-0.98	2.95	-1.20	7.61	+2.15	5.78	+0.82	8.75	+4.51	5.02	+0.84	4.89	+0.65	1.96	-1.17	3.14	+0.90	3.77	+1.82	50.52	+9.14
Lamonte	1.82	+0.04	2.68	+0.77	2.60	0.00	1.34	-2.43	3.71	-1.24	8.81	+4.32	4.72	+0.72	2.89	-0.83	3.79	-0.71	2.29	-0.04	1.10	-0.80	2.76	+1.10	38.51	+0.90
Marshall	2.54	+0.72	1.98	+0.14	1.88	-0.83	1.16	-2.53	5.50	+0.64	8.16	+3.84	4.78	+0.82	3.85	+0.19	4.24	-0.64	1.80	-0.78	1.36	-0.72	2.06	+0.40	39.31	+1.25
Nevada	2.84	+0.87	2.08	0.00	2.05	-0.94	3.36	-0.43	6.76	+1.04	6.45	+1.34	7.52	+3.59	4.67	+1.16	4.15	-0.01	1.32	-1.76	2.86	+0.98	3.00	+1.14	47.06	+6.98
Osceola	2.06	-0.06	3.38	+1.59	3.03	+0.10	2.99	-1.06	5.07	-0.88	5.62	+0.87	6.58	+2.54	3.52	-0.10	3.52	-0.99	2.38	-0.45	2.74	-0.04	3.19	+0.97	44.06	+2.49
Warrensburg	1.56	-0.23	1.59	-0.54	1.76	-0.78	1.62	-1.58	3.08	-1.58	11.23	+6.47	7.95	+4.00	0.99	-2.60	3.44	-0.15	1.13	-1.42	1.73	-0.05	1.84	+0.04	37.92	+1.58
Warsaw	2.98	+0.60	2.91	+0.35	2.52	-0.71	2.36	-1.86	7.10	+1.87	12.61	+7.44	7.42	+3.12	3.15	-1.14	4.34	+0.02	2.81	-0.50	1.31	-1.10	4.37	+2.05	53.88	†10.14
Waverly	1.57	-0.05	1.97	+0.83	1.96	-1.26	1.24	-3.05	4.73	-0.58	7.26	+2.14	4.85	+1.49	5.73	+1.74	6.32	+1.38	1.94	-0.14	1.02	-0.82	3.12	+2.09	41.71	+3.77
Northwest Plateau																										
Albany	1.00	.....	3.15	.....	1.64	.....	.....	.....	.....	.....	7.42	.....	6.21	.....	3.21	.....	3.29	.....	0.48	.....	0.60	.....	3.40	.....	.....	.....
Avalon	1.19	-0.60	2.25	+0.33	3.15	+0.10	0.90	-2.57	3.05	-1.98	9.60	+5.24	5.09	+0.98	2.41	-1.20	4.45	-0.61	1.45	-1.50	0.95	-1.02	2.61	+1.10	37.10	-1.73
Bethany	1.22	-0.08	1.85	+0.41	3.38	+1.08	0.97	-2.25	1.89	-3.09	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.67	-0.68	.....	.....
Chillicothe	0.85	-0.81	1.27	-0.74	2.27	-0.51	0.50	-3.94	2.25	-2.46	12.16	+7.09	5.02	+0.44	2.84	-1.82	5.34	-0.40	1.49	-1.96	1.02	-1.31	1.03	-0.62	36.04	-7.04
Conception	0.50	-0.45	1.38	-0.19	2.29	+0.54	1.00	-1.81	1.72	-3.05	10.53	+5.98	5.44	+1.14	3.55	+0.07	3.97	+0.12	0.51	-1.94	0.68	-0.68	2.50	+1.51	34.07	+1.24
Edgerton	0.42	-0.85	1.24	-0.21	2.32	-0.43	0.92	-2.62	1.64	-3.81	10.29	+5.18	3.33	-1.47	2.77	-1.07	6.39	+3.11	0.80	-1.45	1.11	-0.36	2.47	+1.14	33.70	-2.84
Gallatin	1.20	+0.01	1.10	-0.50	2.60	+0.05	0.80	-2.92	2.00	-3.50	9.39	+4.08	5.15	+0.80	2.30	-1.82	3.70	-0.34	0.95	-1.67	1.70	-0.08	2.03	+0.51	32.92	-5.38
Grant City	0.92	-0.04	2.09	+0.97	2.74	+0.63	0.70	-2.36	2.18	-2.55	9.62	+5.07	4.72	-0.44	3.69	+0.06	2.71	-1.28	0.61	-2.11	0.97	-0.64	2.61	+1.45	33.56	-1.24
Kansas City	1.20	+0.07	1.16	-0.50	2.08	-0.74	1.38	-1.91	3.60	-1.51	7.87	+3.21	3.41	-1.43	3.12	-1.63	4.68	+0.92	1.01	-1.20	1.16	-0.69	2.76	+1.40	33.43	-4.01
Kidder	0.74	-0.56	1.78	+0.26	3.10	-0.80	0.48	-2.56	2.29	-2.92	12.38	+8.02	4.67	+0.74	4.14	+0.23	4.97	+0.73	1.28	-1.34	1.82	-0.02	2.24	+0.94	39.89	+2.72
Lexington	1.28	-0.29	1.78	-0.22	2.09	-0.28	1.57	-1.79	4.58	-0.48	8.05	+3.28	8.29	+3.57	5.27	+2.04	5.63	+1.19	2.22	-0.35	1.32	-1.53	2.18	+0.46	44.26	+5.60
Liberty	1.43	+0.19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.77	-0.67	1.35	-1.10	.....	.....	.....	.....	.....	.....
Maryville	0.23	-0.85	1.78	+0.23	1.63	-0.25	1.11	-1.80	1.61	-4.14	13.53	+8.90	5.15	-0.24	1.66	-2.20	1.55	-2.66	0.07	-2.60	0.78	-0.87	2.72	+1.67	31.82	-4.81
Oregon	0.66	-0.73	1.54	-0.08	2.42	+0.40	1.00	-2.29	2.52	-2.34	8.07	+3.34	3.31	-1.01	4.23	+0.26	4.42	+0.68	0.58	-1.98	0.86	-0.83	2.83	+1.39	32.44	-3.19
St. Joseph	0.66	-0.19	1.70	+0.21	2.42	-0.07	0.62	-2.40	2.24	-2.53	10.36	+6.72	4.44	+1.51	3.17	0.00	5.78	+1.19	9.71	-1.84	1.04	-0.48	2.73	+1.71	35.87	+3.83
Tarkio	0.24	-0.55	1.26	+0.19	3.34	+1.64	1.29	-1.88	1.55	-3.11	10.02	+5.21	5.31	+1.63	3.36	-0.51	1.79	-1.71	0.27	-2.30	0.57	-0.88	2.16	+1.24	31.19	-1.03
Trenton	1.16	-0.22	1.53	0.00	3.09	+0.65	1.21	-2.06	3.34	-2.00	9.77	+5.47	5.54	+1.21	3.13	-0.49	2.67	-1.59	1.26	-1.30	1.14	-0.66	2.69	+1.34	36.53	+0.35

† Indicates plus. * Indicates minus.

Monthly and Annual Mean Temperatures for the Year 1924, with Departures.

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Northeast Plain.																										
Brunswick	21.4	− 5.4	30.9	+ 1.8	37.4	− 4.5	55.8	+ 1.7	59.1	− 5.2	72.7	− 0.5	74.3	− 1.4	78.2	+ 4.4	64.2	− 2.5	61.0	+ 5.8	44.6	+ 3.1	24.6	− 6.0	52.0	− 0.7
Clifton Hill	21.5	− 7.2	31.0	+ 1.8	37.2	− 5.0	52.4	− 1.1	56.2	− 8.0	70.7	− 2.3	72.4	− 4.0	76.6	+ 0.4	63.2	− 5.7	61.2	+ 4.0	44.5	+ 0.7	24.4	− 6.7	50.9	− 2.8
Columbia	24.0	− 5.2	32.7	+ 0.9	37.8	− 4.8	56.6	+ 1.7	57.4	− 6.9	71.8	− 1.0	72.2	− 4.7	77.1	+ 1.5	62.7	− 5.5	61.4	+ 4.8	45.9	+ 2.6	26.6	− 6.6	52.2	− 1.9
Downing	20.4	......	29.0	......	35.2	......	53.9	......	57.2	......	69.6	......	71.4	......	75.2	......	61.2	.....	60.8	......	43.4	......	21.6	......	49.9	......
Fayette	18.0	− 9.2	....	......	....	......	56.0	+ 1.7	57.4[a]	− 6.9	71.0	− 2.3	72.2	− 5.2	76.1	0.0	62.2[b]	− 6.1	60.0[b]	+ 3.3	44.3	+ 2.0	24.8	− 6.4	....	......
Fulton	24.0	− 5.7	32.7	0.0	37.9	− 6.5	55.6	+ 1.3	57.8	− 7.2	71.9	− 1.7	72.5	− 5.4	76.4	− 0.1	63.8	− 5.1	59.6	+ 1.9	45.2	+ 0.7	26.4	− 7.3	52.0	− 2.9
Hannibal	23.0	− 4.1	31.8	+ 2.1	37.2	− 3.8	56.1	+ 2.7	56.8	− 6.8	71.6	− 0.9	72.6	− 4.2	76.8	+ 1.8	62.3	− 5.4	60.8	+ 4.8	45.0	+ 2.9	25.0	− 6.5	51.6	− 1.4
Jefferson City	24.4	− 5.4	32.6	+ 1.7	38.6	− 4.6	57.2	+ 1.1	58.0	− 6.9	72.4	− 1.6	73.6	− 4.5	76.6	− 0.1	64.0	− 5.1	61.0	+ 4.3	46.0	+ 1.9	26.4	− 6.4	52.6	− 2.1
Kirksville	20.2	− 4.7	30.0	+ 4.1	35.5	− 4.0	54.1	+ 2.4	56.9	− 5.6	68.6	− 3.6	71.1	− 5.0	73.9	− 0.1	61.6	− 4.4	61.0	+ 6.3	43.2	+ 2.7	23.2[a]	− 6.4	49.9	− 1.5
Louisiana	26.2	− 1.7	32.7	+ 3.0	39.0[a]	− 4.3	57.6	+ 4.0	58.4	− 5.4	72.6	+ 0.6	72.8	− 3.6	76.7	+ 1.7	63.6	− 4.3	59.0	+ 2.7	47.6	+ 3.4	28.7	− 2.8	52.9	− 0.6
Macon	19.2	− 9.3	30.0	+ 1.3	35.9	− 6.7	55.2	+ 2.1	58.2	− 5.7	71.6	− 1.4	72.6	− 4.8	77.1	+ 0.8	62.8	− 5.5	61.4	+ 4.6	43.0	− 0.4	21.7[a]	− 8.7	50.7	− 2.8
Mexico	22.4	− 5.9	31.7	+ 2.4	37.4	− 4.6	56.1	+ 2.4	57.5	− 6.8	71.6	− 2.1	72.5	− 4.8	77.6	+ 1.5	62.8	− 5.8	60.4	+ 4.0	43.8	+ 0.8	28.7	− 3.0	51.9	− 1.8
Palmyra	20.8	− 6.2	29.6	+ 1.7	35.4[l]	− 4.9	54.2[a]	+ 1.0	55.0	−10.5	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......
St. Catharine	21.0	− 5.4	30.5	+ 1.5	36.7	− 5.8	55.0	+ 3.6	57.6	− 4.9	71.0	− 1.5	72.2	− 3.9	75.4	+ 1.3	62.2	− 5.6	60.6	+ 4.7	44.4	+ 1.5	23.1	− 6.6	50.8	− 1.8
St. Charles	25.7	− 5.4	35.4	+ 2.9	38.6	− 5.8	57.6	+ 2.2	59.6	− 3.4	73.6	− 0.6	73.4	− 4.7	78.5	+ 1.8	64.4	− 3.5	63.8	+ 5.7	48.0	+ 2.5	29.4	− 5.5	54.0	− 1.2
St. Louis(1)	26.6	− 4.2	35.6	+ 1.1	39.8	− 4.0	58.4	+ 2.6	59.4	− 7.5	73.3	− 1.5	75.0	− 3.6	78.2	+ 0.9	65.0	− 5.1	64.6	+ 6.2	47.6	+ 2.5	30.0	− 4.8	54.5	− 1.5
St.Louis(2)	25.8	− 4.4	34.7	+ 2.5	39.0	− 4.6	57.7	+ 2.5	59.0	− 7.1	73.0	− 1.9	74.6	− 5.5	77.8	+ 0.6	65.0	− 5.2	63.9	+ 5.0	47.4	+ 0.9	29.4	− 4.9	53.9	− 1.8
Steffenville	22.0	− 5.8	31.2	+ 2.8	37.4[a]	− 5.0	56.8	+ 3.9	59.2	− 4.9	71.3[a]	− 1.9	74.6	− 3.4	78.2	+ 1.5	65.2	− 3.9	63.5	+ 5.8	45.5	+ 1.7	24.0	− 6.6	52.4	− 1.3
Unionville	20.2	− 3.3	29.8	+ 4.4	35.2	− 3.4	54.2	+ 3.5	57.2	− 5.2	70.0	− 1.8	71.8	− 4.8	74.3	− 0.7	61.7	− 5.5	60.6	+ 5.2	42.6	+ 2.4	21.0	− 6.4	49.9	− 1.4
Warrenton	25.4	− 3.6	33.2	+ 3.3	37.5	− 4.7	56.8	+ 2.3	58.3	− 6.7	71.6	− 2.0	72.4	− 5.4	77.6	+ 1.2	64.2	− 4.6	64.2	+ 8.6	47.1	+ 4.2	28.8	− 3.2	53.1	− 0.9
Keokuk, Ia.	21.6	− 3.3	29.8	+ 1.4	36.2	− 2.7	55.0	+ 2.7	57.4	− 6.4	70.4	− 2.1	72.7	− 4.2	75.4	+ 0.4	61.4	− 6.1	61.4	+ 6.0	43.4	+ 2.3	23.0	− 6.6	50.6	− 1.6
Section Means	22.6	− 5.2	31.6	+ 1.9	37.2	− 4.7	55.8	+ 2.2	57.8	− 6.4	71.5	− 1.6	72.8	− 4.4	76.7	+ 1.0	63.1	− 5.0	61.5	+ 4.9	45.1	+ 2.0	25.5	− 5.9	51.9	− 1.7
Southeast Lowlands.																										
Caruthersville	34.8	− 4.2	42.3	+ 3.4	47.5	− 3.7	64.3	+ 4.1	66.7	− 2.8	81.0	+ 3.2	82.0	+ 1.4	84.8	+ 5.1	71.6	− 1.8	68.0	+ 6.3	56.1[f]	+ 6.2	....	......	....	......
Doniphan	29.6	− 6.6	38.2	+ 0.1	42.4	− 7.0	59.5	+ 1.5	61.1	− 5.8	75.9	+ 1.1	74.8	− 3.4	78.6	+ 1.2	65.4	− 5.4	61.2	+ 2.8	48.2	+ 0.6	34.7	− 2.7	55.8	− 2.0
Jackson	28.4	− 5.6	36.6	+ 1.1	41.5	− 5.7	59.2	+ 2.3	61.0	− 4.8	75.4	+ 1.3	74.3	− 3.1	77.4	+ 1.2	65.6	− 4.3	62.4	+ 4.4	48.0	+ 1.3	32.6	− 4.0	55.2	− 1.3
Marble Hill	29.2	− 5.6	37.9	+ 2.6	41.8	− 5.6	58.0	+ 1.3	60.0	− 5.7	74.8	+ 0.9	73.6	− 3.7	77.5	+ 0.5	65.6	− 4.8	62.4	+ 4.4	48.8	+ 4.4	33.6	− 2.6	55.3	− 1.2
Poplar Bluff	29.9	− 6.7	38.6	+ 2.3	42.6	− 6.2	59.4	+ 0.2	60.8	− 7.2	74.6	− 0.8	75.2	− 3.5	78.8	+ 0.8	66.2	− 5.1	63.6	+ 3.3	49.2	+ 1.8	36.4	− 0.4	56.3	− 1.8
Cairo, Ill.	30.6	− 4.3	37.8	− 0.7	42.0	− 5.2	59.7	+ 1.6	61.6	− 6.8	75.9	− 0.4	76.0	− 3.6	78.2	+ 0.4	66.4	− 5.1	65.3	+ 4.9	49.6	+ 2.3	35.2	− 2.6	56.5	− 1.6
Section means	30.4	− 5.5	38.6	+ 1.4	43.0	− 5.6	60.0	+ 1.8	61.9	− 5.5	76.3	+ 0.9	76.1	− 2.5	79.2	+ 1.5	66.8	− 4.4	63.9	+ 4.6	50.1	+ 3.0	34.5	− 2.5	55.8	− 1.6
Ozark Plateau																										
Arcadia	27.1[l]	− 5.0	34.8	+ 1.3	37.8	− 7.0	56.2	+ 0.9	57.3	− 7.3	71.2	− 0.8	70.1	− 5.8	72.8	− 1.7	60.0	− 7.6	57.0	+ 0.9	44.3	+ 0.3	28.0	− 6.3	51.4	− 3.2
Birchtree	29.2	− 5.2	37.5	+ 2.6	40.7	− 6.7	57.5	+ 0.7	60.1	− 5.1	73.0	+ 0.3	73.2[a]	− 3.2	76.7	+ 0.8	64.3[a]	− 5.2	63.8[e]	+ 5.6	47.8[e]	+ 1.3	34.2	− 1.6	54.8	− 1.3
Bolivar	....	......	31.8	− 2.6	40.3	− 5.8	59.2	+ 3.1	60.6	− 4.3	74.4	+ 1.6	74.1	− 3.0	77.8	+ 0.8	65.0	− 4.6	62.8	+ 4.3	48.4	+ 1.6	31.3	− 4.5	....	......
Dean	....	......	...	......	....	......	....	......	....	......	....	......	....	......	..	......	....	......	....	......	....	......		......	....	......
Eldon	25.3	− 6.1	34.0	+ 2.1	33.1[i]	−10.4	56.8[c]	+ 1.4	57.7	− 6.8	71.0	− 2.2	73.4	− 3.6	76.8	+ 0.4	63.4[e]	− 5.9	61.8	+ 4.1	48.0	+ 2.8	29.2	− 5.1	52.5	− 2.4
Farmington	27.2	− 5.6	35.4	− 0.2	39.4	− 7.5	57.6	+ 0.7	58.0	− 5.8	73.4	+ 0.8	72.2	− 3.1	76.6	+ 1.8	62.8	− 6.5	61.0	+ 4.6	46.6	+ 2.3	31.2	− 5.8	53.4	− 2.0
Gano	26.3	− 6.6	35.0	+ 0.5	38.6	− 8.3	58.4	+ 2.8	59.0	− 6.3	73.4	+ 0.6	72.5	− 4.4	77.6	+ 1.5	63.3	− 6.2	61.4	+ 3.4	48.1	+ 1.3	31.9	− 3.3	53.8	− 2.0
Goodland	26.7	− 5.9	34.8	+ 1.9	37.2	− 7.7	54.4	− 0.2	56.6	− 7.9	73.2	+ 1.1	71.5	− 4.1	75.8	+ 1.3	63.4	− 3.9	59.2	+ 3.4	47.2	+ 2.6	33.0	− 1.4	52.8	− 1.7
Greenville	30.3	......	38.4	......	41.5	......	57.7	......	60.4	......	74.4	......	73.8	......	76.6	......	64.0	......	60.7	......	46.9	......	32.6	.....	54.8	......
Hollister	30.0	− 6.0	41.5	+ 3.5	44.4	− 4.3	57.3	− 2.4	57.8	− 9.5	71.2	− 4.5	72.7	− 6.7	78.3	+ 0.4	64.8	− 6.8	60.0	− 0.4	53.6	+ 5.4	36.5	− 3.2	55.7	− 2.9
Koshkonong	31.2	− 5.3	39.6	+ 2.1	42.5	− 7.1	60.2[b]	+ 2.4	61.4[a]	− 5.4	74.4[a]	+ 0.1	75.6	− 2.7	79.0	+ 1.3	65.4	− 5.5	63.8	+ 3.8	50.6	+ 1.2	36.2	− 1.4	56.7	− 1.4
Lebanon	25.6	− 7.4	33.8	− 0.1	36.5	− 8.9	54.7[f]	− 1.0	57.2	− 8.4	71.6	− 1.5	72.4	− 4.5	77.9	+ 1.6	63.4	− 6.1	62.2	+ 4.2	47.2	+ 1.2	29.4	− 5.6	52.7	− 3.0
Lockwood	28.9	− 4.4	37.8	+ 2.3	40.0	− 7.9	57.9	+ 1.9	59.3	− 5.3	74.4	+ 0.4	75.0	− 2.6	78.2	+ 1.0	63.8	− 7.5	63.2	+ 4.6	44.8	− 2.9	29.2	− 6.3	54.4	− 2.2
Mountain Grove	26.8	− 6.4	35.4	+ 1.6	37.8	− 8.2	56.6	+ 2.4	59.0	− 4.9	73.2	+ 1.6	72.8	− 3.2	76.8	+ 1.7	63.2	− 5.2	62.0	+ 4.4	46.7	+ 0.1	29.9	− 4.4	53.4	− 1.7
Neosho	30.8	− 4.3	39.0	+ 2.4	41.4	− 6.8	59.6	+ 1.6	61.1	− 5.1	76.3	+ 2.4	74.2	− 3.4	78.6	+ 1.7	65.4	− 4.9	61.8	+ 2.6	50.7	+ 3.5	34.2	− 2.5	56.1	− 1.1
Rolla	28.2	− 3.1	36.0	+ 0.8	40.2	− 4.8	58.9	+ 3.9	59.8	− 4.7	74.9	+ 2.1	74.9	− 2.5	78.8	+ 3.0	64.4	− 3.6	63.8	+ 7.9	49.4	+ 4.5	31.9	− 1.7	55.1	− 0.2
Seligman	31.5	− 3.2	38.4	+ 2.2	40.2	− 6.0	57.0[c]	+ 1.2	55.4[e]	− 9.5	74.0	+ 1.5	74.0[a]	− 2.6	78.2[a]	+ 2.6	65.4[c]	− 3.4	62.2[b]	+ 3.9	50.1[a]	+ 2.9	34.2[a]	− 2.4	55.1	− 1.4
Seymour	28.7	− 5.6	36.6	+ 4.2	39.2[c]	− 6.0	....	......	57.8[a]	− 6.3	71.6	− 0.4	71.5	− 4.0	75.8	+ 0.8	62.0	− 6.6	60.2	+ 2.7	48.6[d]	+ 2.5	31.6	− 2.8	....	......
Springfield	28.4	− 5.1	36.4	+ 1.0	38.2	− 7.0	56.2	+ 0.3	57.7	− 6.8	72.4	− 0.1	73.2	− 3.4	77.0	+ 1.3	63.8	− 5.1	63.7	+ 5.5	48.5	+ 2.8	30.4	− 5.8	53.8	− 1.9
Section Means	28.3	− 5.3	36.3	+ 1.6	39.4	− 7.1	57.4	+ 1.2	58.7	− 6.4	73.2	+ 0.2	73.2	− 3.7	76.6	+ 1.2	63.8	− 5.6	61.7	+ 3.4	48.3	+ 2.0	31.9	− 3.8	54.2	− 1.9
Southwest Plain.																										
Amoret	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	65.2	− 3.5	61.2	+ 4.1	48.8	+ 3.3	28.2	− 4.3	....	......
Appleton City	26.8	− 4.5	35.9	+ 3.6	39.4	− 5.2	58.2	+ 2.4	59.2	− 5.9	74.0	− 0.8	74.3	− 4.0	78.4	+ 0.6	65.4	− 4.9	63.7	+ 4.6	49.6	+ 3.5	29.4	− 4.9	54.5	− 1.3
Clinton	27.4	− 4.0	36.2	+ 4.3	41.0[a]	− 3.3	61.3	+ 5.6	62.8	− 2.4	75.8	+ 2.4	77.0	− 0.5	80.9	+ 4.1	69.4[m]	− 0.8	65.8	+ 7.2	52.8[c]	+ 5.5	30.2[c]	− 4.2	56.7	+ 1.2
Harrisonville	23.4	− 3.8	32.6	+ 2.9	36.9	− 4.0	55.4	+ 1.6	58.0	− 6.0	71.5	− 1.9	72.8	− 5.0	76.5	+ 0.7	63.7	− 4.6	61.6	+ 5.6	45.2	+ 2.8	24.3	− 6.9	51.8	− 1.1
Lamar	26.8	− 5.6	35.4	+ 0.9	38.0	− 8.2	56.5	− 0.1	58.6	− 7.3	74.0	− 0.4	74.3	− 4.2	78.6	+ 1.1	65.0	− 5.6	62.2	+ 3.3	47.7	+ 1.1	28.9	− 6.3	53.8	− 2.6
Lamonte	24.4	− 4.3	35.4	+ 3.8	37.4	− 6.3	53.3	− 1.8	58.3	− 6.4	73.0	− 1.3	74.0	− 5.5	79.2	+ 2.5	64.8	− 5.3	63.1	+ 5.1	47.2	+ 2.8	26.0	− 8.2	53.0	− 2.1
Marshall	23.0	− 4.6	31.9[b]	+ 2.4	38.4[a]	− 4.1	56.9[g]	+ 2.4	59.4[a]	− 4.7	73.0[a]	− 0.9	73.2	− 4.1	78.0	+ 2.4	66.0[b]	− 2.3	61.9[a]	+ 5.3	45.4[c]	− 0.2	25.8[a]	− 5.8	52.7	− 1.2
Nevada	28.1	− 3.6	37.0	+ 5.1	40.0	− 4.3	57.6	+ 2.5	58.8	− 5.8	74.4	+ 0.8	73.6	− 6.6	77.7[a]	+ 0.8	65.0	− 4.1	62.0	+ 4.7	48.6	+ 4.2	29.4	− 4.5	54.4	− 0.9
Warrensburg	25.8	− 3.1	34.6	+ 3.3	38.6	− 5.0	57.6	+ 1.5	58.6	− 6.7	72.8	− 1.4	74.0	− 4.8	76.2[j]	− 0.8	67.0	− 3.1	65.0	+ 6.9	49.0	+ 4.1	27.8	− 5.6	53.9	− 1.2
Warsaw	27.0	− 5.8	36.0	+ 2.2	40.0	− 6.9	58.6	+ 3.0	59.3	− 6.5	74.4	+ 0.7	73.6	− 4.7	77.9	+ 0.5	65.1	− 4.9	61.8	+ 2.7	50.0	+ 2.5	29.3	− 5.5	54.4	− 1.9
Section Means	25.9	− 4.4	35.0	+ 3.2	38.9	− 5.4	57.3	+ 1.9	59.2	− 5.8	73.7	− 0.2	74.1	− 4.4	78.2	+ 1.3	65.7	− 3.9	62.8	+ 5.0	48.4	+ 3.0	28.1	− 5.3	53.9	− 1.4
Northwest Plateau.																										
Avalon	23.2	− 5.3	33.0	+ 3.4	38.4	− 3.8	55.8	+ 2.3	58.7	− 4.8	71.5	− 2.1	72.8	− 6.3	76.8	+ 0.2	64.0	− 5.6	62.0	+ 3.5	44.7	+ 0.8	23.5	− 8.9	52.0	− 2.4
Bethany	20.6	− 4.0	29.6	+ 2.6	36.2	− 3.8	52.2	+ 1.0	57.4[l]	− 5.2	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......
Chillicothe	18.6	−10.2	29.7	− 2.8	35.6	− 6.0	54.2	+ 0.9	57.0	−10.1	70.5	− 3.7	71.6	− 8.6	75.4	− 0.7	62.3	− 7.3	58.8	+ 0.6	42.8	+ 0.2	19.8	−15.8	49.7	− 5.3
Conception	19.6	− 5.2	31.8	+ 4.7	36.5	− 3.0	54.6	+ 2.7	58.4	− 3.6	70.0	− 1.6	73.3	− 3.1	76.2	+ 1.6	62.8	− 4.4	60.7	+ 5.2	42.7	+ 1.3	20.3	− 9.0	50.6	− 1.2
Edgerton	21.2[e]	......	31.0[e]	......	36.0[f]	......	55.6[e]	......	57.1[f]	......	71.8	....	72.8[b]	......	77.2[h]	......	64.3[g]	......	61.9[c]	......	44.4[g]	......	23.7	......	51.4	......
Grant City	21.6	− 3.3	32.0	+ 4.7	36.8	− 4.5	54.2	+ 2.7	57.6	− 4.5	69.5	− 1.8	72.3	− 3.9	75.6	+ 0.7	62.7	− 4.3	59.7	+ 4.3	....	......	21.1	− 6.6	....	......
Kansas City	25.4	− 2.8	34.6	+ 3.4	37.8	− 4.9	56.8	+ 2.0	58.7	− 6.1	72.4	− 1.2	74.6	− 3.5	78.2	+ 1.6	65.0	− 3.9	63.6	+ 5.9	46.7	+ 3.0	25.8	− 6.7	53.3	− 1.1
Kidder	19.3	− 7.6	29.4	+ 1.6	35.2	− 6.0	53.6	+ 1.2	57.0	− 6.1	69.8	− 2.6	71.8	− 5.1	75.8	+ 0.1	62.0	− 5.7	60.2	+ 3.8	42.4	0.0	19.8	− 9.9	49.7	− 3.0
Lexington	23.2	− 4.3	34.0	+ 4.6	39.0	− 3.9	57.2	+ 3.1	59.6	− 4.8	72.4	− 0.4	73.6	− 3.5	77.7	+ 1.7	64.8	− 3.7	61.8	+ 4.3	47.8	+ 3.8	25.4	− 6.1	53.0	− 0.8
Liberty	23.2[a]	− 5.9	....	......	....	......	....	......	....	......	....	......	....	......	....	......	65.4	− 4.0	60.8	+ 3.3	....	......	....	......	....	......
Maryville	20.6	− 1.8	31.0	+ 6.9	35.8	− 1.4	54.0	+ 3.9	57.2	− 3.9	69.2	− 0.4	72.1	− 3.5	75.8	+ 2.2	62.6[a]	− 2.8	60.5	+ 7.2	43.4	+ 4.4	21.1	− 5.2	50.3	+ 0.5
Oregon	21.2	− 2.7	32.0	+ 3.8	35.8	− 3.5	55.0	+ 1.1	57.2	− 6.0	69.6	− 2.7	72.2	− 3.4	75.0	0.0	61.1	− 5.9	59.7	+ 4.8	43.6	+ 3.3	22.2	− 6.3	50.4	− 1.5
St. Joseph	22.0	− 5.4	32.5	+ 2.4	36.8	− 5.8	55.8	+ 2.2	58.1	− 6.2	71.6	− 2.8	73.8	− 5.4	77.8	+ 1.0	63.4	− 5.5	62.0	+ 5.3	44.9	+ 0.9	22.6	− 8.1	51.8	− 2.3
Tarkio	18.6	− 4.3	29.8	+ 1.8	35.0	− 5.6	52.9	+ 0.7	56.6	− 6.7	69.2	− 3.5	72.1	− 4.9	75.2	− 0.4	60.6	− 6.0	59.8	+ 4.3	41.6	+ 1.0	19.2	− 6.7	49.2	− 2.5
Trenton	21.2[i]	− 5.5	30.2[a]	+ 1.7	36.0[a]	− 5.2	54.1	+ 1.5	57.2	− 6.6	69.8	− 2.8	71.3	− 5.6	74.6	− 0.6	61.4	− 6.0	58.9	+ 2.6	43.6	+ 1.2	21.8	− 7.8	50.0	− 2.8
Section Means	21.3	− 4.9	31.5	+ 3.0	36.5	− 4.4	54.7	+ 1.9	57.7	− 5.7	70.6	− 2.1	72.6	− 4.7	76.2	+ 0.6	63.0	− 5.0	60.7	+ 4.2	44.1	+ 1.8	22.0	− 8.1	51.0	− 2.2
State means	24.9	− 5.5	33.8	+ 2.0	38.4	− 5.4	56.6	+ 1.5	58.6	− 6.0	72.5	− 1.0	73.3	− 4.1	77.2	+ 1.2	64.0	− 5.0	61.8	+ 4.4	46.7	+ 2.2	27.7	− 6.2	52.9	− 1.9

Letters of alphabet indicate number of days missing from report: thus [a] one day; [b] two days, etc.

SUMMARY—*Continued from Page 49.*

NOVEMBER.—A mild, bright, and exceptionally pleasant month. There were a few timely and beneficial rains. A light snowfall near the close of the month brought a reminder of winter. Winter grains, live stock, all outdoor work, and the general business trades were favored by the fine weather, except fuel, and heavy clothing channels were a bit sluggish. An unusual amount of plowing for spring planting was done.

DECEMBER.—The first half of the month was mainly moderate and open. An abrupt change to winter occurred the night of the 16th, and severe winter weather continued the remainder of the month. The last 15 days of the month averaged colder than any other similar period of record. A rain, sleet and snowstorm prevailed from the 16th to the 19th. Fully three-fourths of the State was covered by a solid ice sheet the last half of the month. For severity and duration, and resulting damage and loss there is no other storm period comparable with it in Missouri since 1883.

KILLING FROSTS, 1924.

Stations.	Last in Spring.	First in Autumn.	Days in Growing Season.
Northeast Plain.			
Brunswick	April 10	Oct. 23	196
Clifton Hill	April 2	Oct. 23	204
Columbia	April 1	Oct. 23	205
Downing	April 22	Oct. 22	183
Fayette	April 11	Oct. 23	195
Fulton	April 2	Oct. 23	204
Hannibal	April 2	Oct. 23	204
Jefferson City	April 3	Oct. 23	203
Kirksville	April 22	Sept. 30	161
Louisiana	April 10	Sept. 30	173
Macon	April 22	Oct. 22	182
Mexico	April 10	Oct. 22	195
Palmyra	April 5	....	....
St. Catharine	April 22	Sept. 30	161
St. Charles	April 11	Oct. 23	195
St. Louis (1)	April 2	Nov. 8	220
St. Louis (2)	April 2	Nov. 24	236
Steffenville	April 2	Sept. 30	181
Unionville	April 22	Sept. 30	161
Warrenton	April 2	Oct. 22	203
Keokuk, Iowa	April 2	Oct. 23	204
Southeast Lowlands			
Caruthersville	April 2	Nov. 19	231
Doniphan	April 3	Oct. 23	203
Jackson	April 11	Oct. 22	194
Marble Hill	April 11	Oct. 22	194
Poplar Bluff	April 2	Oct. 22	203
Cairo, Ill.	April 2	Oct. 24	205
Ozark Plateau.			
Arcadia	April 18	Oct. 22	187
Birchtree	April 2	Oct. 24	205
Bolivar	April 1	Oct. 23	205
Dean	....	Oct. 23	....
Eldon	April 3	Oct. 22	202
Farmington	April 2	Oct. 21	202
Gano	April 2	Oct. 22	203
Goodland	April 19	Sept. 30	164
Greenville	April 19	Oct. 22	186
Ozark Plateau (continued)			
Hollister	May 15	Oct. 22	160
Koshkonong	April 2	Nov. 9	221
Lebanon	April 3	Sept. 30	180
Lockwood	April 1	Oct. 23	205
Mountain Grove	April 2	Oct. 22	203
Neosho	April 1	Oct. 23	205
Rolla	April 2	Oct. 24	205
Seligman	April 1	Oct. 23	205
Seymour	April 2	Sept. 30	181
Springfield	April 1	Nov. 19	232
Southwest Plain.			
Amoret	....	Oct. 23	....
Appleton City	April 1	Oct. 23	205
Clinton	April 17	Oct. 26	192
Harrisonville	April 2	Nov. 8	220
Lamar	April 2	Oct. 23	204
Lamonte	April 2	Oct. 23	204
Marshall	April 11	Oct. 23	195
Nevada	April 1	Oct. 23	205
Warrensburg	April 2	Oct. 23	204
Warsaw	April 2	Oct. 23	204
Northwest Plateau.			
Avalon	April 2	Oct. 22	203
Bethany	April 11	....	....
Chillicothe	April 10	Sept. 30	173
Conception	April 22	Oct. 22	182
Edgerton	April 10	Sept. 30	173
Grant City	April 22	Oct. 23	183
Kansas City	April 1	Nov. 8	221
Kidder	April 22	Oct. 22	182
Lexington	April 2	Oct. 23	204
Liberty	....	Oct. 22	....
Maryville	April 22	Nov. 7	199
Oregon	April 1	Nov. 8	221
St. Joseph	April 1	Oct. 23	205
Tarkio	April 22	Oct. 22	182
Trenton	April 2	Oct. 23	204

Monthly Data of the State for 1924.

Month	Temperature				Precipitation				
	Mean	Departure from Normal	Maximum	Minimum	Mean	Departure from Normal	Greatest	Least	No. Days with .01 or more
January	29.4	− 5.5	68	−25	1.54	−0.49	4.44	0.23	7
February	33.8	+ 2.0	79	− 5	1.84	−0.31	3.00	0.60	7
March	38.4	− 5.4	80	8	2.55	−0.45	4.35	1.14	8
April	55.6	+ 1.5	95	11	2.07	−1.66	6.32	0.48	6
May	58.6	− 6.0	96	31	4.67	−0.03	7.61	1.55	10
June	72.5	− 1.0	101	38	7.39	+2.72	13.53	2.59	14
July	73.3	− 4.1	103	40	5.39	+1.34	10.72	2.14	10
August	77.2	+ 1.2	106	48	4.14	+0.46	9.51	0.99	7
September	64.0	− 5.0	96	29	3.77	+0.04	8.92	1.55	8
October	61.8	+ 4.4	92	21	1.22	−1.53	4.17	0.00	4
November	46.7	+ 2.2	88	4	1.72	−0.63	4.11	0.51	4
December	27.7	− 6.2	80	−28	3.43	+1.40	6.70	0.67	7
Year	52.9	− 1.9	106	−28	40.01	+1.14	13.53	0.00	94

Comparative Annual Data for the State.

Year	Temperature			Precipitation	Year	Temperature			Precipitation
	Mean	Maximum	Minimum			Mean	Maximum	Minimum	
1888	52.9	111	−32	41.22	1907	55.6	109	−15	41.81
1889	54.3	107	− 9	37.91	1908	56.7	102	−10	42.56
1890	54.7	106	−19	35.71	1909	56.7	110	−20	45.16
1891	53.9	108	−11	38.04	1910	55.0	109	−24	36.86
1892	53.4	101	−11	42.76	1911	56.9	113	−19	38.94
1893	52.7	107	−20	38.19	1912	53.6	105	−36	38.68
1894	55.1	111	−35	33.18	1913	56.5	110	−12	37.47
1895	52.9	106	−26	39.30	1914	56.1	109	−18	34.72
1896	55.5	108	−10	44.63	1915	54.8	102	−24	49.62
1897	55.0	108	−16	38.82	1916	55.2	109	−29	40.33
1898	54.4	104	−20	53.67	1917	52.3	107	−23	31.94
1899	54.0	108	−32	37.32	1918	55.5	111	−25	37.16
1900	55.6	105	−16	38.34	1919	55.2	106	−23	40.05
1901	55.5	116	−29	25.28	1920	54.3	105	−10	37.[illegible]
1902	54.1	103	−17	44.96	1921	58.2	109	− 8	43.77
1903	53.6	102	−25	40.15	1922	56.8	108	− 6	39.99
1904	53.2	100	−23	41.62	1923	55.3	108	−11	41.23
1905	53.6	103	−40	45.43	1924	52.9	106	−28	40.01
1906	55.1	101	−13	37.34	Average 37 yrs.	54.8	116	−40	39.77

Evaporation Tables, Columbia, Mo.

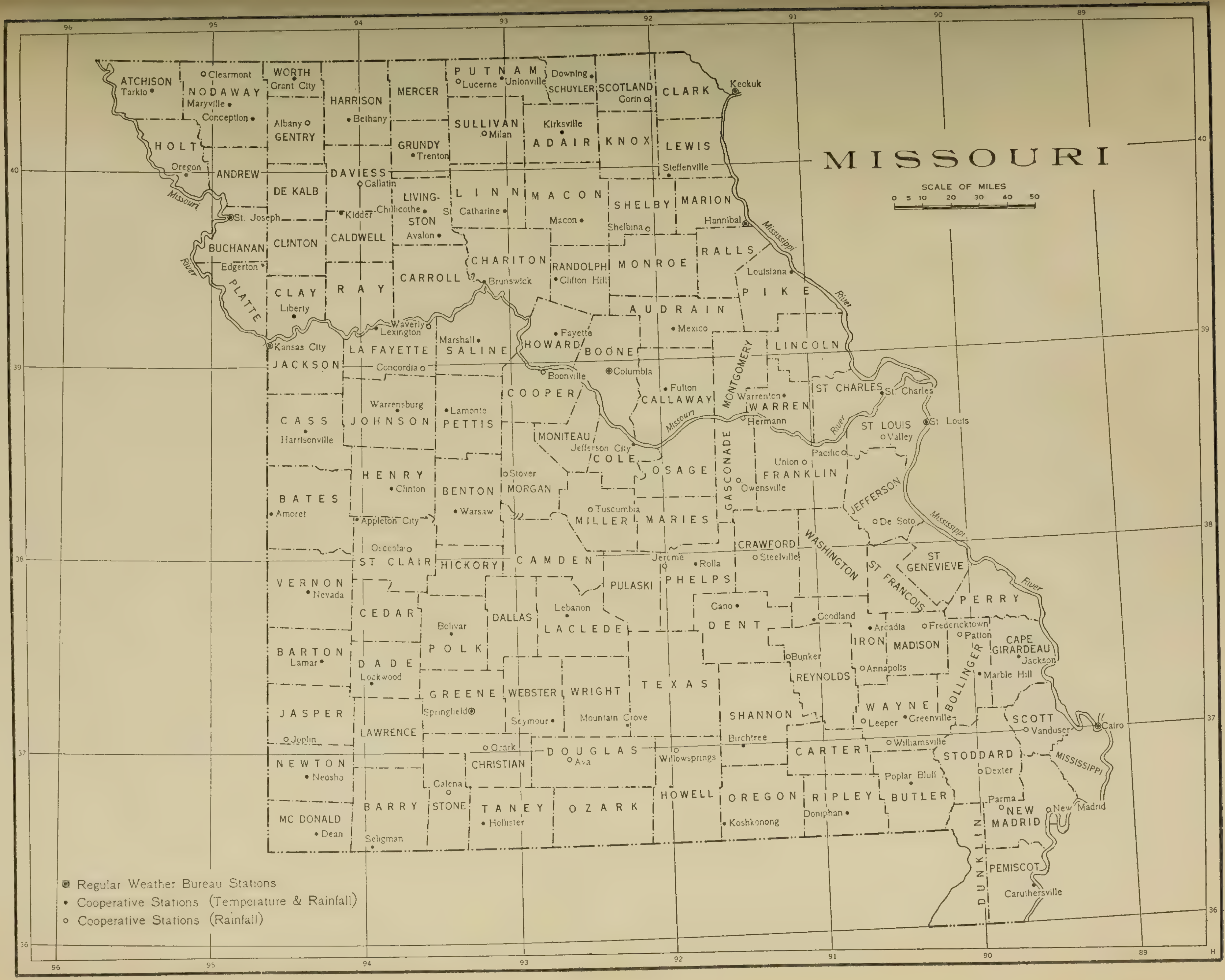
	Apr.	y	June	July	Aug.	Sept.	Oct.	Nov.	Season
Station No. 1* (Weather Bureau)									
Total evaporation	4.318	3.975	4.296	5.048	4.992	2.765	2.157	1.737	29.288
Total precipitation	1.46	5.06	7.77	5.70	3.04	5.04	2.17	1.50	31.74
Total wind movement	1,302	998	682	598	584	678	636	1,437	6,915
Mean temperature	56.6	57.4	71.8	72.2	77.1	62.7	61.4	45.9	63.1
Station No. 2** (Univ. of Missouri Experiment Farm.)									
Total evaporation	5.173	5.309	7.090	6.426	6.851	4.296	3.670	2.590	41.405
Total precipitation	1.58	4.89	8.15	5.85	3.48	5.32	2.24	1.50	35.01
Total wind movement	2,439	2,070	1,692	1,293	1,272	1,591	1,483	2,405	14,245

* Observations taken at 6:45 a. m. ** Observations taken at 5:30 p. m.

WBO, St. Louis, 3-4-25—1100.

CO-OPERATIVE OBSERVERS

Stations	Name	Stations	Name	Stations	Name
Albany	Carl Gillespie	Gano	A. C. Leach	New Madrid	Miss Josie Smith
Amoret	Andrew Rood	Goodland	F. M. Adams	Oregon	Tom Curry
Annapolis	Tom Dunn	Gorin	J. W. Pulliam	Osceola	John T. Fields
Appleton City	W. G. Bigelow	Grant City	B. F. Locke	Owensville	Charles S. Hutton
Arcadia	Arcadia College	Greenville	A. M. Rhodes	Ozark Beach	S. E. Gurd
Ava	C. G. Reynolds	Hannibal	U. S. Weather Bureau	Pacific	Mark Waters
Avalon	F. G. Ashbaugh	Harrisonville	John H. Patterson	Parma	J. E. Pearce
Bethany	Owen Ross	Hermann	J. G. Rebsamen	Patton (near)	George F. Ellis
Birchtree	V. H. Kirkendall	Hollister	Mrs. W. P. Chapmann	Poplar Bluff	J. H. Wolpers
Bolivar	Southwest Baptist College	Jackson	John G. Putz	Rolla	Prof. Elmo G. Harris
Boonville	C. Randecker	Jefferson City	Miss Emma Swift	St. Catharine	L. D. Baker
Brunswick	O. K. Benecke	Jerome	C. F. Brockman	St. Charles	L. C. Saeger
Bunker	E. A. Grassham	Joplin	P. J. Sergeant	St. Joseph	U. S. Weather Bureau
Cape Girardeau	D. L. Albert	Kansas City	U. S. Weather Bureau	St. Louis(1)	U. S. Weather Bureau
Caruthersville	H. E. Averill	Kidder	Linn Terry	St. Louis(2)	St. Louis University
Clearmont	W. G. Price	Kirksville	Prof. J. S. Stokes	Seligman	Floyd E. Fawver
Clifton Hill	Dr. A. J. Bradsher	Koshkonong	R. M. Hitt	Seymour	Ira H. Hailey
Chillicothe	Wm. J. Olenhouse	Lamar	Jesse A. Mann	Shelbina	J. C. Jewett
Clinton	Dr. A. E. Derwent	Lamonte	J. E. Wheeler	Springfield	U. S. Weather Bureau
Columbia	U. S. Weather Bureau	Lebanon	Tom E. Mulcare	Steelville	R. M. Reeves
Conception	Fr. Adelhelm Hess	Leeper	....	Steffenville	Frank Hall
Concordia	A. H. Schlapper	Lexington	E. G. Loomis	Stover	H. Kyle Vickrey
Dean	H. E. Dean	Liberty	Rev. Philip Nathan	Tarkio	Albert Volker
De Soto	Charles Calliott	Lockwood	C. S. Crow	Trenton	W. H. Estes
Dexter	W. A. Sherwood	Louisiana	J. T. Farrell	Tuscumbia	C. B. Wright
Doniphan	W. W. Martin	Lucerne	John Lowry	Union	J. William Keller
Downing	E. E. St. Clair	Macon	W. C. Brown	Unionville	George W. Davis
Edgerton	Fred L. Stiff	Marble Hill	R. A. DeWitt	Valley Park	William. D. Underwood
Eldon	E. H. Shepherd	Marshall	Dr. Wm. H. Black	Vanduser	M. L. Armstrong
Farmington	Robert Forsyth	Maryville	J. R. Brink	Warrensburg	E. A. Markey
Fayette	L. W. Jacobs, jr.	Mexico	Mrs. Abbie Snoddy	Warrenton	Prof. A. W. Ebeling
Fredericktown	W. H. Jones	Milan	J. W. Rogers	Warsaw	Everet Martin
Fulton	Westminster College	Mountain Grove	Missouri Fruit Exp. Station	Waverly	Florence C. Palmer
Gallatin	Levi C. Rogers	Neosho	U. S. Fisheries Station	Williamsville	C. M. Becker
Galena	M. H. Stewart	Nevada	George A. Kaupp	Willow Springs	Frank E. Bullard


MISSOURI
SCALE OF MILES
0 5 10 20 30 40 50
ATCHISON
Tarkio
NODAWAY
Clearmont
Maryville
Conception
WORTH
Grant City
HARRISON
Bethany
MERCER
PUTNAM
Lucerne
Unionville
SCHUYLER
Downing
SCOTLAND
Corin
CLARK
Keokuk
HOLT
Oregon
ANDREW
GENTRY
Albany
DAVIESS
Gallatin
GRUNDY
Trenton
SULLIVAN
Milan
ADAIR
Kirksville
KNOX
LEWIS
Steffenville
BUCHANAN
St. Joseph
DE KALB
CLINTON
CALDWELL
Kidder
LIVINGSTON
Chillicothe
Avalon
LINN
St Catharine
MACON
Macon
SHELBY
Shelbina
MARION
Hannibal
PLATTE
Edgerton
CLAY
Liberty
RAY
CARROLL
CHARITON
Brunswick
RANDOLPH
Clifton Hill
MONROE
RALLS
PIKE
Louisiana
AUDRAIN
Mexico
JACKSON
Kansas City
LA FAYETTE
Lexington
Waverly
Concordia
SALINE
Marshall
HOWARD
Fayette
BOONE
Columbia
CALLAWAY
Fulton
MONTGOMERY
LINCOLN
WARREN
Warrenton
ST CHARLES
St. Charles
ST LOUIS
St Louis
Valley
CASS
Harrisonville
JOHNSON
Warrensburg
PETTIS
Lamonte
COOPER
Boonville
MONITEAU
COLE
Jefferson City
OSAGE
GASCONADE
Hermann
Owensville
FRANKLIN
Union
Pacific
JEFFERSON
De Soto
BATES
Amoret
HENRY
Clinton
BENTON
Warsaw
MORGAN
Stover
MILLER
Tuscumbia
MARIES
CRAWFORD
Steelville
WASHINGTON
ST GENEVIEVE
ST FRANCOIS
PERRY
VERNON
Nevada
ST CLAIR
Osceola
Appleton City
HICKORY
CAMDEN
PULASKI
PHELPS
Jerome
Rolla
DENT
Cano
IRON
Arcadia
Goodland
MADISON
Fredericktown
Patton
CAPE GIRARDEAU
Jackson
CEDAR
DALLAS
Bolivar
POLK
LACLEDE
Lebanon
BARTON
Lamar
DADE
Lockwood
GREENE
Springfield
WEBSTER
Seymour
WRIGHT
Mountain Grove
TEXAS
SHANNON
Birchtree
REYNOLDS
Bunker
Annapolis
WAYNE
Leeper
Greenville
BOLLINGER
Marble Hill
SCOTT
Vanduser
Cairo
JASPER
Joplin
LAWRENCE
CHRISTIAN
Ozark
DOUGLAS
Ava
Willowsprings
CARTER
Williamsville
STODDARD
Dexter
NEWTON
Neosho
BARRY
Seligman
STONE
Galena
TANEY
Hollister
OZARK
HOWELL
OREGON
Koshkonong
RIPLEY
Doniphan
BUTLER
Poplar Bluff
NEW MADRID
Parma
New Madrid
MC DONALD
Dean
DUNKLIN
PEMISCOT
Caruthersville
Missouri River
Mississippi River
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H
⊙ Regular Weather Bureau Stations
• Cooperative Stations (Temperature & Rainfall)
○ Cooperative Stations (Rainfall)

N MS

APR 7 1925

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXIX. COLUMBIA, MO., JANUARY, 1925. No. 1.

GENERAL SUMMARY.

The temperature conditions of January, 1925, in Missouri, differed but little from the normal, and there were but few sudden temperature changes of importance. It was mainly less cold in the eastern half of the State than in the western half according to thermometer records, but physiologically there practically was no difference. There were no unusually mild periods at any time or anywhere.

The precipitation was much less than usual, but, owing to ice or snow cover most of the time, the deficiency was not noticed in the general walks of life. The unusual feature, and perhaps the only one of the month, was ice covered ground. Nearly three-fourths of the State north of the Ozarks was ice-covered most of the month. While some of this fell during January, most of it was carried over from the notable December 16-18th glaze and sleet storm. The snowfall of the month was nearly 5 inches for the State as a whole, or about the average. There were no very deep snows, and no drifting of importance.

Winter wheat at the close of the month was in a doubtful state, but the general opinion of the farmers seemed to be on the side of minor damage. Except the necessary chores, farm work was at a stand still. There was little or no activity in highway building or outdoor work of any kind. The automobile, gasoline, and nearby lines of trade also were adversely affected by the weather. On the other hand, woolens, rubber goods, especially shoes, skates, and sleds were in great demand.

TEMPERATURE.

The monthly mean temperature as shown by the records of 66 stations, was 29.7°, or 0.7° below the average for the State for the past 38 years. The month was a bit milder than normal in the northeastern and southeastern sections, and colder in the central, southwestern, and northwestern sections. The 13th, 27th, and 28th were the coldest days generally, subzero cold being more or less widespread on those dates. The relatively mild periods were from the 3d to the 9th, and from about the 21st to the 25th, and the 30th. The 24th, and 25th were the warmest days and the only two of the month for the State as a whole with minimum temperature above freezing. The maximum for the month was 65°, on the 24th; the minimum was 15° below zero, on the 28th.

PRECIPITATION.

The average for the State as determined from the records of 99 stations, was 1.00 inch, or about 1.03 inches less than the 56 years' average. Precipitation was below normal in all sections, being somewhat more pronounced over the eastern half of the State. There was ample soil moisture, however, for all needs. About three-fourths of the State was ice covered most of the month, being a continuation of the December glaze storm. Most of the month's precipitation was in the form of light snows, mixed with rain, and occasionally with sleet or glaze. The periods of the most general precipitation were 1st, 12th, 15-16th, 19th, and 26th to 29th.

The average snowfall was 4.7 inches; and it fell in all sections. In the Ozarks the monthly totals ranged from about 5 to over 11 inches, and in other sections from about 2 to 7 inches.

WIND.

The prevailing winds were from the south and southwest. The total monthly movement, 8 stations equipped with anemometers reporting, was 6,438 miles, and average hourly velocity of 8.7 miles. There were no strong winds.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well placed stations equipped with sunshine recorders reporting, was 184, or about 62 per cent of the possible, and about 11 per cent more than normal. The sunshine this month was about 6 per cent more than last January.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---8th, 16th, 22d, and 25th.

Halos, solar.---13th, 20th, 24th, 25th, 27th, 28th, and 31st.

Halos, lunar.---7th, 8th, 9th, 20th, 29th, 31st.

Sleet.---In eastern and southern sections 1st, 11th, 15th, 19th, 26th; western sections on 15th, and 16th. Generally light, except heavy in the southeastern part on the 26th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.18	86	72	176	58	5,437	7.3	28	n.	26
Hannibal	30.19	78	..	...	..	5,867	7.9	35	ne.	26
Kansas City	30.18	82	67	228	75	7,271	9.8	35	n.	26
St. Joseph	30.17	88	75	203	67	5,408	7.3	29	n.	26
St. Louis	30.18	78	61	155	51	8,383	11.3	34	s.	31
Springfield	30.16	84	71	158	51	7,122	9.6	35	se.	15
Cairo, Ill	30.18	79	66	...	...	7,014	9.4	38	n.	26
Keokuk, Iowa	30.21	77	66	183	68	5,006	6.7	25	n.	26

COMPARATIVE DATA FOR JANUARY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	21.5	−8.7	74	−32	1.91	−0.08	.....	....	6	....	....	....
1889	31.8	+1.6	69	−2	2.36	+0.37	....	....	6	....	....	....
1890	33.8	+3.6	81	−19	4.25	+2.26	....	....	9	....	....	....
1891	34.1	+3.9	74	−1	1.52	−0.47	.....	4.3	6	....	....	....
1892	24.0	−6.2	67	−25	1.80	−0.19	.....	....	4	14	8	9
1893	22.5	−7.7	66	−14	0.45	−1.54	0.90	2.4	3	9	11	11
1894	31.4	+1.2	77	−35	2.21	−0.22	2.96	2.7	5	13	9	9
1895	24.7	−5.5	78	−22	1.49	−0.50	2.20	9.4	5	14	8	9
1896	32.9	+2.7	71	−9	1.17	−0.82	2.44	3.1	4	10	7	14
1897	28.4	−1.8	72	−16	4.90	+2.91	6.95	4.0	8	12	7	12
1898	34.3	+4.1	75	−10	3.98	+1.99	3.35	8.4	9	11	8	12
1899	30.2	0.0	70	−21	1.55	−0.44	2.40	4.0	6	12	8	11
1900	34.5	+4.3	77	−9	1.22	−0.77	2.80	0.2	4	14	7	10
1901	35.0	+4.8	72	−11	1.30	−0.69	2.95	0.8	4	17	7	7
1902	30.1	−0.1	72	−17	1.23	−0.76	3.37	6.9	5	16	7	8
1903	31.4	+1.2	73	−11	1.36	−0.63	1.71	5.0	6	13	6	12
1904	27.0	−3.2	66	−23	2.85	+0.86	4.74	7.4	8	14	6	11
1905	22.3	−7.9	72	−19	1.79	−0.20	2.52	6.8	8	14	6	11
1906	35.6	+5.4	76	−8	3.64	+1.65	3.00	9.2	6	14	5	12
1907	34.3	+4.1	79	−5	5.10	+3.11	4.42	2.8	12	7	6	18
1908	34.4	+4.2	68	−10	1.51	−0.48	2.13	3.6	5	19	5	7
1909	33.7	+3.5	83	−20	2.17	+0.18	2.10	6.5	7	6	7	18
1910	32.3	+2.1	78	−24	1.83	−0.16	3.98	3.5	5	13	6	12
1911	34.6	+4.4	78	−19	1.20	−0.70	3.03	0.7	5	8	7	16
1912	20.0	−11.3	70	−36	1.06	−1.20	2.56	6.5	4	14	7	10
1913	33.1	+1.8	74	−12	3.67	+1.30	5.30	2.6	8	13	6	12
1914	38.1	+6.9	78	−1	1.42	−0.92	2.00	1.0	4	12	7	12
1915	29.1	−2.2	76	−24	2.92	+0.59	3.10	5.4	8	12	5	14
1916	31.6	+0.7	72	−24	7.36	+5.16	4.65	3.4	12	9	4	18
1917	32.9	+2.5	76	−10	1.52	−0.64	2.50	2.3	5	15	7	9
1918	16.4	−14.0	67	−24	1.68	−0.71	3.20	16.6	7	12	7	12
1919	34.0	+3.6	70	−23	0.40	−1.88	3.05	1.4	2	20	5	6
1920	28.6	−1.4	72	−5	1.57	−0.65	4.15	5.7	5	15	5	11
1921	37.1	+7.2	74	−1	1.88	−0.38	1.45	5.4	6	10	7	14
1922	29.5	−0.6	66	−6	1.21	−1.05	2.95	3.9	5	14	5	12
1923	39.2	+8.5	75	3	2.72	+1.81	3.52	0.6	6	12	7	12
1924	24.9	−5.5	68	−25	1.54	−0.49	1.78	5.7	7	14	5	12
1925	29.7	−0.7	65	−15	1.00	−1.03	2.10	4.7	4	15	7	9

Climatological Data for January, 1925.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	26.6	−0.2	55	25	0	28	40	0.59	−1.04	0.26	7.0	5	19	0	12	ne.	O. K. Benecke
Clifton Hill	Randolph	731	26	27.1	−1.6	53	25	−1	27	34	0.52	−1.08	0.27	3.2	5	8	13	10	......	Dr. A. J. Bradsher
Columbia	Boone	748	35	29.0	−0.2	53	24	1	13	31	0.82	−1.41	0.38	6.3	6	15	5	11	s.	U. S. Weather Bureau
Downing	Schuyler	878	4	25.4	......	52	25	−5	27	35	0.29	−1.44	0.14	3.2	3	20	3	8	w.	E. E. St. Clair
Fayette	Howard	661	45	27.4	+0.2	55	24	−7	13	42	0.15	−1.84	0.15	2.0	1	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	37	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	....
Gorin	Scotland	700	38	....	......	..	..	....	..	..	0.27	−1.28	0.12	3.2	3	12	11	8	sw.	J. W. Pulliam
Hannibal	Marion	534	33	27.4	+0.3	53	25	1	13	30	0.39	−1.81	0.20	2.2	4	14	9	8	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	37	28.4	−1.4	56	24†	−3	28	31	1.09	−1.13	0.45	10.0	4	18	4	9	w.	Miss Emma Swift
Kirksville	Adair	969	36	25.4^{b}	+0.5	51	25	−4	27	34	0.19	−1.34	0.10	2.3	3	13	2	16	nw.	Prof. J. S. Stokes
Louisiana	Pike	469	31	28.4	+0.5	55	26	−6	13	40	0.92	−1.10	0.50	4.7	5	19	5	7	s.	J. T. Farrell
Macon	Macon	875	26	26.2	−2.3	54	25	−1	27	35	0.38	−1.27	0.25	1.4	4	17	9	5	sw.	W. C. Brown
Mexico	Audrain	800	36	29.2	+0.9	54	25	3	27†	35	0.88	−1.17	0.30	5.7	5	18	1	12	w.	Mrs. Abbie Snoddy
St. Catharine	Linn	800	14	26.1	−0.3	53	25	−4	27	39	0.23	−1.01	0.14	2.2	4	16	12	3	sw.	L. D. Baker
St. Charles	St. Charles	456	37	31.0	−0.1	63	25	1	28	36	0.86	−1.41	0.41	5.5	5	11	5	15	n.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	33.0	+1.8	57	25	8	27	39	0.53	−1.74	0.18	4.9	5	12	8	11	s.	U. S. Weather Bureau
St. Louis (2)	....do.	578	13	32.4	+2.2	57	25	8	27†	37	0.60	−2.47	0.21	3.8	6	16	6	9	se.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	....	J. C. Jewett
Steffenville	Lewis	650	27	27.0	−0.8	56	25	−3	13	32	0.32	−1.87	0.25	3.0	2	19	4	8	s.	Frank Hall
Unionville	Putnam	1,062	32	25.2	+1.7	53	25	−7	27	36	0.19	−1.65	0.10	1.0	2	14	6	11	nw.	Geo. W. Davis
Warrenton	Warren	816	43	31.4	+2.4	59	25	−1	27	38	0.52	−1.86	0.20	4.0	5	14	5	12	ne.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	25.4	+0.5	52	25	−2	27	29	0.35	−1.34	0.15	5.6	4	12	11	8	e.	U. S. Weather Bureau
Section means and	extremes	.....	..	28.0	+0.2	63	25	−7	13†	42	0.50	−1.46	0.50	4.1	4	15	6	10	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	29	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	....
Doniphan	Ripley	344	21	35.5	−0.7	60	24	−2	28	39	1.79	−2.42	0.50	4.8	8	11	12	8	n.	W. W. Martin
Jackson	Cape Girardeau	428	34	33.6	−0.4	59	7	−5	28	37	1.57	−2.15	0.62	6.0	6	6	7	18	n.	John G. Putz
Marble Hill	Bollinger	470	30	34.6	−0.2	61	7	2	28	37	3.13	−0.40	2.10	3.5	6	14	7	10	n.	R. A. DeWitt
Parma	New Madrid	281	4	....	......	..	..	....	..	..	1.35	......	0.30	3.0	6	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	16	....	......	..	..	....	..	..	1.26	−1.79	1.00	3.0	3	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	329	21	37.2	+0.6	63	22	1	27	46	1.53	−2.44	0.70	3.0	5	16	13	2	w.	J. H. Wolpers
Vanduser	Scott	304	24	....	......	..	..	....	..	..	1.67	−2.56	0.57	5.2	7	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	50	36.8	+1.9	60	7	6	28	32	1.21	−2.61	0.43	3.4	9	9	8	14	n.	U. S. Weather Bureau
Section means and	extremes	....	..	35.5	+0.2	63	22	−5	28	46	1.69	−2.05	2.10	4.0	6	11	10	10	n.	
Ozark Plateau.																				
Arcadia	Iron	926	44	30.0	−2.1	59	25	−14	28	48	1.59	−1.63	0.60	5.1	5	12	4	15	nw.	Arcadia College
Birchtree	Shannon	1,000	30	35.8	+1.4	64	25	−2	28	33	1.98	−1.08	0.98	10.0	6	15	5	11	se.	V. H. Kirkendall
Bolivar	Polk	1,071	31	32.2	−1.7	60	25	1	27†	30	1.40	−0.49	0.50	5.5	4	11	10	10	s.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	65	25	....	..	..	0.89	−1.35	0.31	6.0	4	20	2	9	sw.	H. E. Dean
Eldon	Miller	934	29	31.6	+0.2	68	24	−4	27	49	0.83	−0.71	0.50	4.0	5	19	5	7	s.	E. H. Shepherd
Farmington	St. Francois	918	14	32.2	−0.6	60	25	−6	28	36	1.03	−1.32	0.53	7.0	7	13	8	10	ne.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	33.0	+0.1	63	25	−12	28	42	1.55	−1.30	0.76	7.5	6	15	4	12	sw.	A. C. Leach
Goodland	Iron	1,000	31	33.2	+0.6	63	25	−15	28	46	1.84	−1.03	1.12	8.0	4	18	4	9	s.	F. M. Adams
Greenville	Wayne	381	3	33.4	......	59	22	−12	28	42	1.75	......	0.95	4.0	3	23	1	7	s.	A. M. Rhodes
Hollister	Taney	735	38	36.4	−0.4	65	31	−10	28	47	1.80	−0.81	1.30	6.0	3	14	5	12	sw.	Mrs. W. P. Chapmann
Koshkonong	Oregon	958	24	37.0	+0.5	63	25	2	28	33	1.99	−1.55	0.95	6.0	5	14	4	13	ne.	R. M. Hitt
Lebanon	Laclede	1,265	37	30.8	−2.2	62	25	−2	28	47	2.40	−0.05	2.06	4.5	5	9	7	15	ne.	Thomas E. Mulcare
Lockwood	Dade	1,078	19	31.6	−1.7	61	25	−3	27	40	1.20	−0.46	0.93	5.0	3	20	3	8	sw.	C. S. Crow
Mountain Grove	Wright	1,463	24	32.6	−0.6	61	25	0	28	37	1.82	−1.05	0.87	9.0	5	10	8	13	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	35.3	+0.2	64	25	−2	28	44	2.00	−0.50	0.52	4.0	6	17	3	11	nw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	33.9	+2.6	64	25	−1	28	39	1.32	−1.12	0.77	5.4	5	19	2	10	n.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	35.5	+0.8	59	25†	4	27†	40	2.10	−0.14	0.78	3.8	5	13^{a}	8^{a}	9^{a}	se.	Floyd E. Fawver
Seymour	Webster	1,612	19	33.0^{a}	−1.3	59	25	1	28	34	1.66	−1.04	0.82	6.8	4	15^{a}	5^{a}	10^{a}	s.	Ira H. Hailey
Springfield	Greene	1,350	37	33.2	−0.3	59	25	4	27	40	1.58	−1.08	0.66	7.8	5	15	5	11	se.	U. S. Weather Bureau
Section means and	extremes	....	..	33.4	−0.3	65	25†	−15	28	49	1.62	−0.93	2.06	6.1	5	15	5	11	s	
Southwest Plain.																				
Amoret	Bates	831	18	27.6	−2.9	56	25	−5	28	36	0.44	−0.85	0.32	5.5	3	21	6	4	n.	Andrew Rood
Appleton City	St. Clair	853	31	29.6	−1.7	56	25	−3	27	36	0.80	−1.03	0.25	6.3	6	15	11	5	sw	W. G. Bigelow
Clinton	Henry	765	32	30.4^{c}	−1.0	57	25	−5	27	35	0.84	−1.14	0.36	12.0	4	12^{c}	11^{c}	5^{c}	sw.	A. E. Derwent, M. D
Harrisonville	Cass	904	48	26.4	−0.8	54	24	−3	27†	32	0.41	−1.19	0.14	3.5	4	11	0	20	nw.	John H. Patterson
Lamar	Barton	980	38	30.2	−2.2	60	25	−1	28	39	1.10	−0.60	0.52	3.0	4	15	5	11	ne.	Jesse A. Mann
Lamonte	Pettis	867	24	28.2	−0.5	57	24	−3	13†	39	2.62	+1.04	0.90	7.5	6	22	7	2	se.	J. E. Wheeler
Marshall	Saline	779	36	27.9^{a}	+0.3	57	25	−3	13	36	0.35	−1.47	0.20	3.5	4	12^{a}	10^{a}	8^{a}	ne.	Dr. W. H. Black
Nevada	Vernon	862	32	30.4	−1.3	58	24	−4	27	30	0.56	−1.41	0.26	4.0	3	19	2	10	s.	George A. Kaupp
Warrensburg	Johnson	878	38	28.8	−0.1	65	24	−2	27	35	0.74	−1.05	0.40	5.5	5	13^{a}	12^{a}	5^{a}	n.	E. A. Markey.
Warsaw	Benton	687	25	30.7	−2.1	56	31	−3	28	40	1.07	−1.31	0.30	6.5	5	16	6	9	w.	Everett Martin
Section means and	extremes	.....	..	29.0	−1.2	65	24	−5	27†	40	0.91	−0.90	0.90	5.7	4	16	7	8	n.	
Northwest Plateau.																				
Avalon	Livingston	730	35	27.1	−1.4	51	24	−2	27	32	0.58	−1.21	0.40	6.0	2	15^{f}	3^{f}	7^{f}	......	F. G. Ashbaugh
Bethany	Harrison	916	33	25.1	+0.5	56	24	−6	27	42	0.31	−0.99	0.23	3.1	4	21	7	3	sw.	Owen Ross
Chillicothe	Livingston	779	16	24.2	−4.6	51	24†	−4	27	35	0.03	−1.63	0.03	0.3	1	15	10	6	ne.	Wm. J. Olenhouse
Conception	Nodaway	980	36	24.6	−0.2	51	24	−8	27	33	0.36	−0.59	0.16	3.5	4	17	7	7	ne.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	26.0^{a}	......	53	24	−1	27	35	0.20	−1.07	0.14	1.2	4	22	0	9	s.	Fred L. Stiff
Grant City	Worth	1,134	21	26.5	+1.6	49	25	−7	27	43	0.22	−0.74	0.12	2.8	3	15	8	8	s.	B. F. Locke
Kansas City	Jackson	963	36	29.3	+1.1	55	24	−1	27	29	0.26	−0.87	0.13	2.4	5	17	8	6	n.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	23.3	−3.6	51	24	−4	27†	38	0.25	−1.05	0.20	3.0	2	11	7	13	nw.	Linn Terry
Lexington	Lafayette	688	40	28.4	+0.9	53	24	0	27	31	0.35	−1.22	0.29	1.5	2	18	6	7	s.	Edwin G. Loomis
Liberty	Clay	859	35	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	....
Maryville	Nodaway	1,169	35	25.8	+3.4	54	24	−6	27	38	0.70	−0.38	0.40	7.0	3	19	3	9	n.	J. R. Brink
Oregon	Holt	1,048	69	24.5	+0.6	48	23	−7	25	44	0.52	−0.87	0.15	5.2	4	18	7	6	se.	Tom Curry
St. Joseph	Buchanan	967	17	26.6	−0.4	52	24	−4	27	31	0.27	−0.57	0.18	2.5	5	18	6	7	sw.	U. S. Weather Bureau
Tarkio	Atchison	916	22	22.4	−0.5	48	24	−6	27	33	0.44	−0.35	0.28	7.0	3	16	5	10	sw.	Albert Volker
Trenton	Grundy	822	29	25.6	−1.1	47	24	−2	27	28	0.25	−1.13	0.11	2.0	3	16	7	8	n.	W. H. Estes
Section means and	extremes	.....	..	25.7	−0.3	56	24	−8	27	44	0.34	−0.90	0.40	3.4	3	17	6	8	s.	
State means and	extremes	.....	..	29.7	−0.7	65	24†	−15	28	49	1.00	−1.03	2.10	4.7	4	15	7	9	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for January, 1925.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	.10	....	....	....	....	....	....	....	....	....	....	.17	....	....	....	.43	....	....	....	....	....	....	....	....	....	....	.10	....	.05	....	....	0.85
Brunswick‖	Grand	.04	....	....	....	....	....	....	....	....	....	....	.02	.02	....	....	.26	....	....	....	....	....	....	....	....	....	....	....	....	.25	....	....	0.59
Clifton Hill	Chariton	.02	....	....	....	....	....	....	....	....	....	....	.09	....	....	.02	.27	....	....	....	....	....	....	....	....	....	T.	....	....	.12	....	....	0.52
Columbia***	Missouri	.08	....	....	....	....	....	....	....	....	....	....	.18	....	....	.27	11	....	....	....	....	....	....	....	....	....	.16	....	....	.02	....	....	0.82
Downing	Mississippi	.14	....	....	....	....	....	....	....	....	....	....	.03	....	....	....	.12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.29
Fayette‖‖	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	.15	....	....	0.15
Fulton	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Gorin	Mississippi	.06	....	....	....	....	....	....	....	....	....	....	.09	....	....	....	.12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.27
Hannibal***	....do	.08	....	....	....	....	....	....	....	....	....	....	.11	....	....	.10	.10	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	0.39
Hermann‖	Missouri	.01	T.	....	....	....	....	....	....	....	....	....	.01	.03	....	....	.38	....	....	....	T.	....	....	....	....	....	....	.05	....	....	....	....	0.48
Jefferson City‖	....do	.26	....	....	....	....	....	....	....	....	....	....	.13	....	....	....	.45	....	....	....	T.	....	....	....	....	....	....	.25	....	T.	....	....	1.09
Kirksville	Mississippi	.04	....	....	....	....	....	....	....	....	....	....	.05	....	....	T.	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.19
Louisiana	....do	.10	....	....	....	....	....	....	....	....	....	....	.25	....	....	....	.50	....	....	....	....	....	....	....	....	....	.01	.06	....	....	....	....	0.92
Macon‖	Chariton	....	.04	....	....	....	....	....	....	....	....	....	....	.05	....	....	.25	....	....	....	....	....	....	....	....	....	....	....	....	.04	....	....	0.38
Mexico‖	Mississippi	....	.01	....	....	....	....	....	....	....	....	....	.16	.30	....	....	.36	....	....	....	....	....	....	....	....	....	....	.05	....	....	....	....	0.88
Milan‖	Grand	.05	02	....	....	....	....	....	....	....	T.	....	....	....	....	....	.10	....	....	....	....	....	....	....	....	....	....	....	....	.05	....	....	0.22
Pacific‖	Meramec	.12	T.	....	....	....	....	....	....	....	....	....	T.	T.	....	....	.35	....	....	....	.20	....	....	....	....	....	....	.19	....	....	....	....	0.86
Palmyra‖	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
St. Catharine	Grand	.03	....	....	....	....	....	....	....	....	....	....	.02	....	....	T.	.14	....	....	....	....	....	....	....	....	....	T.	....	....	.04	....	....	0.23
St. Charles	Missouri	.10	....	....	....	....	....	....	....	....	....	....	.10	....	....	....	.41	....	....	....	.05	....	....	....	....	....	.20	....	....	....	....	....	0.86
St. Louis (1)***	Mississippi	.16	T.	....	....	....	....	....	....	....	....	T.	T.	....	....	.15	.03	....	....	.02	....	....	....	....	....	....	.17	....	....	....	....	....	0.53
St. Louis (2)	....do	.16	....	....	....	....	....	....	....	....	....	T.	.01	....	....	.11	.10	....	....	.02	....	....	....	....	....	....	.20	....	....	....	....	....	0.60
Shelbina‖‖	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Steffenville	....do	.07	....	....	....	....	....	....	....	....	T.	....	.25	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.32
Union‖‖	Meramec	.12	.04	....	....	....	....	....	....	....	....	....	....	.04	....	....	.34	....	....	....	.15	....	....	....	....	....	....	.15	....	....	....	....	0.84
Unionville	Chariton	.09	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.19
Valley Park‖‖	Meramec	.08	T.	....	....	....	....	....	....	....	....	....	T.	....	....	....	.38	....	....	....	.05	....	....	....	....	....	....	.19	....	....	....	....	0.70
Warrenton	Mississippi	.08	....	....	....	....	....	....	....	....	....	....	.06	....	....	....	.20	....	....	....	.03	....	....	....	....	....	.15	....	....	....	....	....	0.52
Keokuk, Ia.***	....do	.08	....	....	....	....	....	....	....	....	....	....	.12	....	....	.07	.08	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	0.35
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi	.16	T.	....	....	....	....	....	....	....	....	.09	.04	.12	....	....	.56	.02	....	.06	.18	....	....	....	....	....	.03	.08	....	....	....	....	1.34
Caruthersville	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Doniphan	Black	.20	....	....	....	....	....	....	....	....	....	.09	.20	....	....	.50	.23	....	....	.10	....	....	....	....	....	....	.10	.37	....	....	....	....	1.79
Jackson	Mississippi	.18	....	....	....	....	....	....	....	....	....	....	....	....	....	.11	.62	....	....	.27	....	....	....	....	....	....	....	.28	....	....	.11	....	1.57
Marble Hill	Mississippi	.12	....	....	....	....	....	....	....	....	....	.05	....	....	....	....	2.10	....	....	.20	....	....	....	....	....	....	.10	.56	....	....	....	....	3.13
New Madrid‖‖	....do	.02	....	....	....	....	....	....	....	.23	.06	.23	.06	.45	....	....	.23	.02	....	.20	.06	....	....	....	....	....	....	.45	.02	....	....	....	2.03
Parma	St. Francis	....	....	....	....	....	....	....	....	....	.05	.25	.25	....	....	....	....	.30	....	.20	....	....	....	....	....	....	....	.30	....	....	....	....	1.35
Patton (near)	Mississippi	.08	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.00	....	....	....	....	....	....	....	....	....	....	.18	....	....	....	....	1.26
Poplar Bluff	Black	.33	....	....	....	....	....	....	....	....	.14	....	....	....	....	.70	....	....	.10	....	....	....	....	....	....	....	.26	....	....	....	....	....	1.53
Vanduser	Mississippi	....	.14	....	....	....	....	....	....	....	.15	....	.12	....	....	.35	....	....	....	.27	....	....	....	....	....	....	.12	.52	....	....	....	....	1.67
Cairo, Ill.***	....do	.02	....	....	....	....	....	....	....	.01	T.	.19	.18	....	....	.03	.25	....	....	.10	....	....	....	....	....	....	.26	.17	....	....	....	....	1.21
Ozark Plateau.																																	
Annapolis‖	St. Francis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.76	....	....	....	....	....	....	....	....	....	.30	....	....	....	....	....	1.06
Arcadia‖	....do	07	.17	....	....	....	....	....	....	....	....	....	T.	....	....	....	.60	....	....	....	....	.21	....	....	....	....	....	.54	....	....	....	....	1.59
Birchtree	Black	.34	....	....	....	....	....	....	....	....	....	....	....	....	....	.23	.98	....	....	....	.02	....	....	....	....	....	.06	.35	....	....	....	....	1.98
Bolivar‖	Osage	.50	....	....	....	....	....	....	....	....	....	....	....	....	....	.50	....	....	....	....	....	....	....	....	....	....	.15	.25	....	....	....	....	1.40
Dean	Neosho	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	.81	....	....	....	....	.10	....	....	....	....	....	T.	.28	....	....	....	....	0.89
De Soto‖‖	Mississippi	.30	....	....	....	....	....	....	....	....	....	....	.02	....	....	....	.46	....	....	....	T.	.02	....	....	....	....	.30	....	....	....	....	....	1.10
Eldon	Missouri	.04	....	....	....	....	....	....	....	....	....	....	.02	....	....	.50	....	....	....	....	.02	....	....	....	....	....	.25	....	....	....	....	....	0.83
Farmington	St. Francis	.15	....	....	....	....	....	....	....	....	....	....	T.	....	....	.03	.53	....	....	....	.10	.06	....	....	....	....	.05	.11	....	....	....	....	1.03
Fredericktown‖‖	....do	....	....	....	.02	....	....	....	.03	....	....	....	....	....	.50	....	....	....	....	....	.70	....	....	....	....	.12	.09	.56	....	....	....	....	2.02
Galena‖‖	White	....	....	.58	....	....	....	....	....	....	....	....	....	....	....	....	....	1.75	....	....	.58	.10	....	....	....	....	....	.30	....	....	....	....	3.31
Gano	Meramec	.22	....	....	....	....	....	....	....	....	....	....	T.	....	....	.08	.68	....	....	....	T.	.10	....	....	....	....	.12	.35	....	....	....	....	1.55
Goodland	Black	.16	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.12	....	....	....	....	....	....	....	....	....	10	.46	....	....	....	....	1.84
Greenville	St. Francis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.40	....	....	....	....	....	....	....	....	....	....	.40	....	....	.95	....	1.75
Hollister	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.30	....	....	....	....	.10	....	....	....	....	....	....	.40	....	....	....	....	1.80
Jerome ....‖	Gasconade	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.95	.10	....	....	....	.12	....	....	....	....	....	.30	....	....	....	....	1.67
Koshkonong	Black	.20	....	....	....	....	....	....	....	....	....	.27	....	....	....	.17	.95	....	....	....	....	....	....	....	....	....	....	.40	....	....	....	....	1.99
Lebanon‖‖	Osage	.16	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.10	....	....	....	....	.02	....	....	....	....	T.	.06	....	....	2.06	....	2.40
Lockwood	....do	.12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.93	....	....	....	....	....	....	....	....	....	....	.15	....	....	....	....	1.20
Mountain Grove‖	White	.20	.20	....	....	....	....	....	....	....	....	....	T.	....	....	....	.87	T.	....	....	.05	....	....	....	....	....	....	.50	....	T.	....	....	1.82
Neosho	Neosho	.52	....	....	....	....	....	....	....	....	....	....	T.	....	....	.42	.45	....	....	....	.31	....	....	....	....	....	.10	.20	....	....	....	....	2.00
Rolla	Meramec	.01	....	....	....	....	....	....	....	....	....	....	.02	....	....	.77	....	....	....	....	....	.07	....	....	....	....	.45	....	....	....	....	....	1.32
Seligman	Neosho	.62	....	....	....	....	....	....	....	....	....	T.	T.	....	....	.78	....	....	....	....	.25	....	....	....	....	....	.10	.35	....	....	....	....	2.10
Seymour	White	.45	....	....	....	....	....	....	....	....	....	....	T.	....	....	.25	.82	....	....	....	T.	T.	....	....	....	....	....	.14	....	....	....	....	1 66
Springfield***	....do	.30	....	....	....	....	....	....	....	....	....	....	T.	....	....	.44	.02	....	....	....	.16	....	....	....	....	....	.66	T.	....	T.	....	....	1.58
Steelville‖	Meramec	.15	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	.52	....	....	....	....	.08	....	....	....	....	....	.47	....	....	....	....	1.22
Tuscumbia‖	Osage	.16	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.44	....	....	....	....	T.	....	....	....	....	....	.19	....	.02	....	....	0 81
Willow Sprgs.‖‖ (near)	White	.30	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	1.10	....	....	....	.02	....	....	....	....	....	....	.45	....	....	....	....	1.90
Southwest Plain.																																	
Amoret	Osage	.32	....	....	....	....	....	....	....	....	....	....	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	.08	....	....	....	....	....	0.44
Appleton City	....do	.25	....	....	....	....	....	....	....	....	....	....	.06	....	....	.08	.22	....	....	....	....	....	....	....	....	....	.18	....	....	.01	....	....	0.80
Clinton	....do	.36	....	....	....	....	....	....	....	....	....	....	.10	....	....	.15	....	....	....	....	....	....	....	....	....	....	.23	....	....	....	....	....	0.84
Harrisonville‖	....do	.11	....	....	....	....	....	....	....	....	....	....	.08	....	....	....	.14	....	....	....	....	....	....	....	....	....	....	.08	....	....	....	....	0.41
Joplin*	Neosho	....	....	....	....	.50	....	....	....	....	....	....	....	....	....	.66	.01	....	....	....	....	....	....	....	....	....	.32	....	....	....	....	....	1.49
Lamar‖	....do	.52	.09	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.28	....	....	....	....	....	....	....	....	....	.21	....	....	....	....	1.10
Lamonte	Missouri	.90	....	....	....	....	....	....	....	....	....	....	.72	....	....	.23	.25	....	....	....	....	....	....	....	....	....	* *	.72	....	....	....	....	2.82
Marshall	....do	05	....	....	....	....	....	....	....	....	....	....	.20	....	....	T.	....	....	....	....	....	....	....	....	....	....	.05	....	....	.05	....	....	0.35
Nevada	Osage	.26	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.12	....	....	....	....	....	....	....	....	....	.18	....	....	....	....	....	0.56
Osceola‖‖	....do	.25	.15	....	....	....	....	....	....	....	....	.25	.15	....	....	....	.70	....	....	....	....	....	....	....	....	....	T.	.40	....	....	....	....	1.90
Warrensburg	Missouri	.40	....	....	....	....	....	....	....	....	....	....	.04	....	....	.12	....	....	....	....	....	....	....	....	....	....	.06	....	.12	....	....	....	0.74
Warsaw	Osage	....	....	....	....	....	....	....	....	....	....	....	.12	....	....	.27	.30	....	....	....	....	....	....	....	....	....	.26	.12	....	....	....	....	1.07
Waverly‖	Missouri	.06	T.	....	....	....	....	....	....	....	....	....	T.	T.	....	....	.28	....	....	....	....	....	....	....	....	....	....	T.	....	.06	....	....	0.40
Northwest Plateau.																																	
Albany‖‖	Grand	....	....	....	....	....	....	....	....	....	....	....	T	....	....	.02	.50	.05	....	....	....	....	....	....	....	....	....	....	.18	....	....	....	0.75
Avalon	....do	....	....	....	....	....	....	....	....	....	....	....	.40	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.18	....	....	0.58
Bethany	....do	.01	....	....	....	....	....	T.	....	....	....	....	.02	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	.23	....	....	....	0.31
Chillicothe‖‖	....do	T.	T.	....	....	....	....	....	....	....	....	....	....	T.	....	....	T.	T.	....	....	....	....	....	....	....	....	....	....	....	.03	....	....	0.03
Conception	Missouri	.04	....	....	....	....	....	....	....	....	....	....	T.	....	....	.06	.10	....	....	....	....	....	....	....	....	....	....	....	....	.16	....	....	0.36
Edgerton	....do	.02	....	....	....	....	....	....	....	....	....	....	T.	....	....	.02	.02	....	....	....	....	....	....	....	....	....	....	....	....	.14	....	....	0.20
Gallatin‖	Grand	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Grant City	....do	T.	....	....	....	....	....	....	....	....	....	.08	....	....	....	....	.02	....	....	....	....	....	....	....	....	....	....	....	....	.12	....	....	0.22
Kansas City***	Missouri	.13	....	....	....	....	....	....	....	....	....	....	T.	....	....	.06	.03	....	....	....	....	....	....	....	....	....	.01	....	.03	T	....	....	0.26
Kidder‖	Grand	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	.20	....	....	0.25
Lexington‖	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.29	....	....	....	....	....	....	....	....	....	....	....	....	.06	....	....	0.35
Liberty	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Maryville	....do	.20	....	....	....	....	....	T.	....	....	....	....	T.	....	....	T.	.10	....	....	....	....	....	....	....	....	....	....	....	....	.40	....	....	0.70
Oregon	....do	.05	....	....	....	....	....	....	....	....	....	....	....	.02	....	T.	.15	....	....	....	....	....	....	....	....	....	....	.30	....	....	....	....	0.52
St. Joseph***	....do	.02	....	....	....	....	....	....	....	....	T.	....	T.	....	....	.05	.02	....	....	....	....	....	....	....	....	....	T	....	.14	.04	....	....	0.27
Tarkio	....do	.10	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	.06	....	....	....	....	....	....	....	....	....	....	....	....	.28	....	....	0.44
Trenton	Grand	T.	....	....	....	....	....	....	....	....	....	....	T.	....	....	.11	.07	....	....	....	....	....	....	....	....	....	T.	....	....	.07	....	....	0.25

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for January, 1925.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	27	27	39	40	42	47	43	38	42	29	36	26	32	32	38	34	28	38	43	38	42	45	43	52	55	19	32	25	31	45	51	37.4
	Minimum	14	18	19	12	21	15	17	19	19	14	14	23	3	3	8	33	11	16	19	19	22	23	24	24	32	18	1	0	13	8	11	15.9
Columbia	Maximum	24	29	40	38	40	51	42	42	44	30	30	28	31	34	43	35	27	37	35	38	46	40	45	53	52	40	17	23	30	45	51	37.4
	Minimum	18	15	23	26	24	21	27	22	28	18	20	9	1	8	26	23	20	20	24	22	29	30	24	37	38	12	3	6	18	14	30	20.5
Fayette	Maximum	28	29	40	40	41	50	44	41	48	28	36	27	31	34	40	31	36	40	40	37	45	45	44	55	51	50	24	26	32	44	52	39.1
	Minimum	13	16	19	21	21	13	20	15	19	16	19	20	-7	-3	-2	31	18	15	20	19	21	25	22	25	30	22	2	6	9	6	15	15.7
Hannibal	Maximum	23	28	38	38	38	46	42	40	46	28	32	27	26	30	41	38	27	34	33	33	43	41	36	49	53	39	19	22	33	41	50	35.9
	Minimum	18	20	25	27	24	18	26	20	23	15	19	10	1	9	17	20	10	16	19	19	30	23	19	34	33	9	3	12	19	18	27	19.0
Jefferson City §§	Maximum	26	30	42	40	40	36	36	45	49	33	28	29	32	34	36	36	28	29	29	31	37	42	47	56	56	35	9	22	32	43	33	35.5
	Minimum	19	17	22	24	25	19	23	22	32	33	20	27	6	12	23	33	22	20	24	23	27	28	25	29	38	28	1	-3	8	12	22	21.3
Kirksville	Maximum	24	27	34	38	38	41	41	36	41	37	31	29	30	27	36	35	29	34	38	35	41	42	36	48	51	42	18	24	34	42	49	35.7
	Minimum	17	20	17	16	24	12	25	20	17	10	12	16	-1	2	9	17	24	7	7	18	15	22	16	29	31	10	-4	..	16	..	15	[b]15.1
Louisiana	Maximum	32	33	36	38	38	40	38	45	42	45	35	31	34	35	40	40	37	36	35	36	46	46	40	46	52	55	28	20	30	40	54	38.9
	Minimum	10	20	20	24	20	18	18	12	16	18	18	25	-6	0	5	34	15	15	20	18	28	31	18	32	36	18	5	5	18	16	32	18.0
Macon §§	Maximum	25	26	36	37	38	46	45	38	45	30	35	26	31	31	41	31	36	38	43	39	43	45	40	50	54	28	21	25	30	43	50	37.0
	Minimum	13	18	20	20	22	17	21	23	22	13	13	23	1	2	6	20	9	9	13	13	20	26	20	20	33	20	-1	0	11	14	17	15.4
Mexico §§	Maximum	25	30	39	40	38	48	43	44	47	22	30	30	29	35	40	41	31	35	34	36	45	40	41	51	51	31	19	30	35	44	51	37.5
	Minimum	17	20	23	26	27	21	28	21	26	20	20	22	5	10	24	32	21	23	3	26	31	34	23	29	39	33	3	3	6	16	16	20.9
St. Catharine	Maximum	25	27	34	40	38	42	45	36	43	37	34	31	29	29	38	35	28	35	41	39	42	42	39	46	53	46	18	24	35	40	48	36.7
	Minimum	19	15	17	20	17	11	6	15	19	11	19	20	0	5	17	21	6	9	15	19	16	25	20	32	33	12	-4	9	14	13	31	15.5
St. Louis(1)	Maximum	26	31	44	37	45	49	44	45	49	39	35	35	31	39	44	41	32	40	37	43	53	44	38	55	57	52	21	25	35	44	55	40.9
	Minimum	22	23	30	28	28	28	33	29	34	26	25	22	12	26	30	28	22	24	26	27	30	33	21	30	40	13	8	9	20	19	33	25.1
Unionville	Maximum	25	27	34	38	36	44	41	45	38	34	35	32	28	30	37	35	30	36	44	40	46	40	38	50	53	43	19	25	35	42	48	37.0
	Minimum	16	17	14	25	20	14	20	16	15	8	10	15	0	2	8	15	-1	5	8	20	14	22	16	28	26	8	-7	10	14	14	26	13.5
Warrenton	Maximum	30	33	40	41	43	49	52	44	45	49	31	31	36	39	42	42	36	40	36	39	51	47	42	54	59	56	21	23	33	43	57	41.4
	Minimum	18	18	26	25	23	20	28	23	26	21	18	27	6	19	23	33	17	19	22	24	27	31	20	31	38	18	-1	2	17	12	33	21.4
Southeast Lowlands.																																	
Caruthersville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Doniphan	Maximum	37	38	47	44	51	53	60	54	51	47	43	41	37	46	40	47	45	43	38	53	55	57	52	60	59	56	31	29	38	43	58	47.0
	Minimum	26	25	29	26	18	19	30	23	36	37	31	32	16	14	27	24	34	27	30	26	23	24	27	25	20	28	11	-2	21	14	24	24.0
Jackson	Maximum	31	31	46	46	50	50	59	48	49	44	41	38	39	47	48	46	43	28	34	47	54	53	46	53	58	55	29	30	35	43	54	44.4
	Minimum	23	24	28	21	20	20	35	23	29	31	30	31	17	21	26	33	28	24	28	24	23	25	22	25	28	25	10	-5	13	6	22	22.9
Poplar Bluff	Maximum	37	34	51	49	59	57	62	51	55	57	44	40	43	50	45	48	46	47	43	54	58	63	51	57	60	58	32	32	44	46	60	49.5
	Minimum	28	31	24	18	20	25	26	36	37	32	32	18	12	22	34	33	27	31	25	24	24	26	21	34	31	12	1	18	13	21	35	25.0
Cairo, Ill.	Maximum	32	33	41	44	52	51	60	48	47	46	39	41	35	45	47	46	41	39	36	48	55	53	44	56	58	52	21	27	35	42	55	44.3
	Minimum	27	27	33	30	30	30	37	31	36	36	34	30	22	27	33	38	30	28	33	31	32	35	27	31	45	20	12	6	23	19	32	29.2
Ozark Plateau.																																	
Arcadia §§	Maximum	26	29	45	44	50	49	51	47	48	42	30	32	41	50	43	39	29	42	29	50	53	54	44	51	59	44	22	21	29	42	54	41.6
	Minimum	20	20	22	26	18	18	18	22	22	25	25	25	13	12	20	30	27	22	23	23	21	22	20	20	30	36	7	-14	-13	5	6	18.4
Birchtree	Maximum	33	30	47	45	52	53	58	49	51	45	42	35	42	51	44	44	41	45	43	55	58	58	50	54	64	54	30	30	35	48	59	46.6
	Minimum	23	23	23	25	33	23	38	24	30	31	28	28	11	19	30	34	29	23	30	24	25	28	25	28	40	23	8	-2	20	19	30	24.9
Eldon	Maximum	26	30	47	47	47	58	59	60	59	31	31	30	47	51	43	35	28	47	35	31	53	55	58	68	59	48	33	26	32	57	65	45.0
	Minimum	12	20	18	21	20	18	19	19	20	20	18	17	5	14	24	21	20	19	21	22	23	26	24	30	35	14	-4	-3	11	8	35	18.3
Farmington	Maximum	26	33	45	40	46	48	51	48	47	41	35	32	37	44	46	42	37	38	36	45	53	46	44	55	60	51	20	30	32	44	55	42.2
	Minimum	20	22	24	26	22	20	32	23	29	27	24	27	12	20	27	34	24	21	24	25	26	33	20	26	34	20	6	-6	10	10	29	22.3
Hollister	Maximum	40	31	50	51	54	63	62	64	58	59	60	51	50	51	58	54	50	52	45	48	60	60	59	56	60	51	40	30	36	52	65	52.3
	Minimum	25	22	16	25	29	16	18	20	20	22	26	26	9	15	20	29	28	30	26	28	23	22	21	22	26	25	7	-10	20	6	20	20.4
Koshkonong	Maximum	39	31	47	45	54	57	60	49	50	46	43	38	43	51	43	45	43	43	38	53	58	61	53	52	63	55	26	33	36	46	61	47.2
	Minimum	26	26	24	27	27	27	38	28	33	35	29	29	15	23	32	34	32	26	32	28	28	34	25	31	39	25	11	2	20	18	28	26.8
Lebanon §§	Maximum	29	31	46	38	43	51	42	49	49	31	33	30	40	49	44	41	31	44	39	45	51	54	57	55	62	39	20	29	29	48	60	42.2
	Minimum	20	19	18	19	21	22	25	20	22	23	19	20	7	9	21	32	21	21	23	22	25	29	26	26	37	31	1	-2	3	11	13	19.5
Mountain Grove §§	Maximum	29	29	44	42	47	52	52	48	51	43	34	31	40	49	41	39	32	46	40	50	53	56	49	53	61	42	23	28	30	42	57	43.0
	Minimum	23	21	21	23	23	24	25	23	25	27	24	25	10	10	22	32	27	24	31	24	27	29	26	28	34	40	5	0	4	13	14	22.1
Neosho	Maximum	43	33	45	46	52	63	53	50	50	50	45	40	44	53	52	46	32	43	47	50	53	59	59	55	64	62	25	30	36	52	62	48.2
	Minimum	22	22	20	21	23	23	26	20	24	27	26	20	9	16	30	25	24	26	31	23	26	25	30	37	33	18	4	-2	18	11	35	22.4
Rolla	Maximum	27	30	45	42	46	55	48	52	52	42	33	29	43	49	42	39	36	46	40	44	54	52	49	57	64	57	23	28	33	49	58	41.0
	Minimum	20	21	21	24	28	24	32	24	30	32	22	24	10	21	32	32	24	23	26	23	28	30	25	33	41	18	3	-1	20	11	35	23.8
Springfield	Maximum	32	29	42	39	45	57	45	45	45	38	39	33	39	46	40	36	30	43	35	45	50	52	49	53	59	53	19	25	27	45	58	41.7
	Minimum	20	20	22	24	30	30	30	27	34	25	23	15	12	24	33	25	24	25	28	27	32	33	31	36	42	13	4	6	20	16	34	24.7
Southwest Plain.																																	
Amoret	Maximum	28	26	42	42	42	46	44	43	43	29	33	28	34	37	37	36	32	38	39	39	43	44	48	53	56	51	16	26	29	45	53	38.8
	Minimum	20	7	6	6	14	12	12	21	20	19	18	21	-2	8	23	22	21	17	20	22	25	22	25	25	25	13	6	-5	18	11	32	16.3
Appleton City	Maximum	27	29	40	38	40	49	42	42	42	36	33	32	34	36	38	35	29	38	39	40	43	41	50	53	56	50	15	27	31	45	54	38.9
	Minimum	21	21	15	18	20	18	26	20	26	20	20	20	3	11	27	24	22	20	23	24	27	28	29	36	32	14	-3	4	19	13	34	20.4
Clinton	Maximum	27	32	40	40	41	49	48	41	45	38	33	36	30	32	38	..	..	..	40	42	44	44	49	55	57	50	40	26	32	48	56	[c]41.2
	Minimum	10	20	25	30	21	20	26	20	25	19	20	20	4	12	25	..	..	..	20	24	25	25	27	25	27	15	-5	0	17	16	34	[c]19.5
Harrisonville §§	Maximum	24	27	42	40	40	47	43	41	42	28	31	28	35	31	36	25	33	35	41	39	44	42	47	54	53	23	15	23	31	45	51	36.9
	Minimum	18	9	10	12	21	19	20	17	17	16	15	21	4	4	10	22	18	17	18	18	25	26	26	27	32	22	-3	-3	8	15	16	16.0
Lamar §§	Maximum	26	31	39	40	42	54	41	46	43	31	34	27	39	45	41	32	29	40	38	41	41	49	55	54	60	33	19	29	31	49	57	39.9
	Minimum	25	21	17	18	20	22	28	21	19	23	21	22	9	10	17	31	22	22	24	24	24	29	28	33	33	32	1	-1	11	14	18	20.6
Lamonte	Maximum	26	31	42	40	42	51	42	46	45	33	34	31	36	38	41	35	29	37	39	37	45	43	51	57	55	39	21	25	30	48	54	39.5
	Minimum	18	18	16	19	17	14	20	16	20	14	18	13	-3	5	21	21	18	16	19	20	21	25	25	36	33	12	-3	1	14	11	33	17.0
Marshall	Maximum	27	31	35	39	39	48	41	42	57	37	31	32	32	33	39	35	29	39	36	39	37	44	42	49	57	42	22	23	30	..	52	[a]38.2
	Minimum	18	13	18	18	20	12	25	17	22	15	19	20	-3	6	20	24	17	19	16	18	20	29	25	31	32	14	0	3	15	..	22	[a]17.6
Nevada	Maximum	29	30	12	37	39	51	40	44	43	35	31	31	35	40	39	36	32	37	36	42	44	45	51	58	55	41	16	28	30	43	55	39.3
	Minimum	22	27	17	18	25	23	26	20	25	22	20	19	6	13	30	23	21	20	23	23	28	28	30	37	35	14	-4	0	19	19	35	21.4
Warrensburg	Maximum	25	29	42	40	39	50	41	43	42	35	32	32	33	34	35	34	29	36	39	40	45	41	50	65	47	47	23	20	27	41	54	38.6
	Minimum	20	15	16	21	19	20	21	18	23	12	19	22	2	8	23	21	19	18	18	15	26	26	26	38	33	12	-2	5	13	25	35	19.1
Warsaw	Maximum	30	31	43	41	41	52	46	46	48	38	37	31	36	41	43	38	29	43	39	40	47	46	51	54	53	51	21	27	31	49	56	41.5
	Minimum	21	22	20	21	17	15	22	16	21	21	20	23	2	11	28	27	23	21	22	22	24	23	28	38	30	14	3	-3	19	9	36	19.9
Northwest Plateau.																																	
Chillicothe §§	Maximum	24	26	45	34	38	45	41	38	40	30	38	24	32	30	38	25	31	34	40	36	44	41	45	51	51	17	20	24	32	45	48	35.7
	Minimum	13	12	11	14	19	15	18	15	18	11	10	21	-1	1	5	23	10	10	10	13	16	17	21	21	29	15	-4	-3	12	11	13	12.8
Grant City	Maximum	23	25	31	36	37	46	42	38	40	32	33	30	29	27	35	35	32	37	43	43	43	43	41	43	49	47	19	24	30	40	46	39.4
	Minimum	16	5	10	20	17	11	23	21	16	12	18	12	-1	4	13	13	0	7	14	24	16	24	20	35	28	4	-7	11	4	20	10	13.6
Kansas City	Maximum	23	26	40	39	39	46	44	42	43	29	34	28	34	36	39	35	33	39	40	39	43	42	49	55	53	36	18	25	30	49	51	38.0
	Minimum	18	13	16	26	23	27	29	20	21	14	18	16	11	14	29	17	16	18	22	28	28	31	27	42	32	7	-1	10	17	24	23	20.6
Kidder §§	Maximum	24	25	36	36	36	43	42	34	39	29	33	22	32	29	36	21	31	36	47	35	41	41	41	51	50	13	18	24	27	45	47	34.3
	Minimum	11	8	7	11	20	14	16	17	17	11	12	20	1	2	5	18	9	9	12	15	18	22	22	23	27	13	-4	-4	10	7	13	12.3
Lexington §§	Maximum	25	28	39	38	39	46	43	40	42	31	34	32	34	30	37	35	31	34	40	37	43	41	45	53	50	46	18	25	32	46	52	37.7
	Minimum	19	14	17	22	23	15	21	20	22	14	19	23	15	10	21	23	17	15	18	25	22	26	25	37	28	15	0	9	15	16	29	19.2
Maryville	Maximum	22	27	37	42	41	44	41	40	45	42	30	26	32	24	35	34	33	37	45	37	45	42	43	51	49	43	19	28	27	43	43	37.1
	Minimum	17	4	11	20	20	17	25	19	19	11	13	12	2	4	18	12	2	9	16	25	17	25	22	36	31	5	-6	7	8	8	22	14.5
Oregon	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph	Maximum	24	25	35	38	37	42	43	38	35	30	32	24	32	30	39	27	33	37	44	37	43	44	46	52	45	34	20	26	26	48	45	35.8
	Minimum	18	8	12	21	21	22	26	18	21	12	18	12	9	8	22	12	14	14	18	23	22	28	26	36	31	3	-4	11	12	21	18	17.3
Trenton	Maximum	25	27	33	31	35	40	38	32	35	31	33	32	30	25	34	33	27	31	38	34	39	40	37	47	45	40	16	24	29	39	45	33.8
	Minimum	19	12	15	24	26	17	21	22	21	12	18	19	5	6	20	17	6	10	13	26	20	26	21	32	31	12	-2	12	14	15	25	17.4

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a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 3-27-25—845.

MS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXIX. COLUMBIA, MO., FEBRUARY, 1925. NO. 2.

GENERAL SUMMARY.

There was very little real winter weather during February, 1925, in Missouri. In the main the month was mild, the mildest since 1921, and about the fourth warmest of record. The precipitation was less than normal in all sections, save the northwest, where it was a bit wetter than usual; the snowfall was light, amounting to about 30 per cent of the normal. There were no unusually high winds anywhere in the State. All rivers remained well within banks.

Three-fourths of the wheat area had been covered with ice from about the middle of December to well into January, and the plants remained dormant during February. The root system was good, and while there was no apparent injury to plants, there was little or no response to the warmth and sunshine of the mildest days. Water from the slowly melting ice and snow of January, with February's precipitation kept the ground too wet for any start in farm work, save some little plowing in the extreme southeast. The highways as well as the country roads were in bad condition most of the month, causing some slacking up in the automobile business lines. Most of the business and traffic lines of trade, however, were not much affected one way or the other by the weather. Commercial orchards were dormant, the buds apparently being in satisfactory condition.

TEMPERATURE.

The monthly mean temperature for the State as a whole, 60 stations reporting, was 38.7°, or about 7° higher than the 36-year average; about 5° warmer than last February, and the fourth warmest February of record. The temperature excess was about the same in all sections. The first two days and the last three days of the month were typical of real winter; the period from the 10th to the 17th was variable, but unusually mild weather prevailed from the 4th to 9th, and 18th to the 25th. During the warmest periods several days were balmy and spring-like, with afternoon temperatures in the 70's. The first two days and the 27th were the coldest, the minimum, 1°, occurring at Tarkio, Atchison County, on the 2d. Minimum readings of 32° or lower occurred on about 20 days.

PRECIPITATION.

The monthly precipitation, based upon the records of 93 stations, was 1.85 inches, or about 0.30 inch less than the 56 years' average. It was drier than normal in the southeastern lowlands, Ozark Plateau, and about normal in the northeastern plains. The most general precipitation occurred from the 9th to the 11th, and 21st to 23d. There was some moisture during the first and last weeks but was rather light and scattered.

The snows were light and less frequent than usual for February. The average fall for the State was under 2 inches; the heaviest amounts, from about 3 to 5 inches, as a rule, fell over the eastern half of the State north of the Ozarks; 9 inches in Lewis County was about the heaviest monthly total.

WIND.

The prevailing winds were from the south. The average wind movement, based upon the records of 8 stations equipped with anemometers, was 6,818 miles, 10.2 miles an hour. Brisk winds occurred generally on the 8th, 10th, and 11th.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, based upon the records of 6 well placed stations equipped with sunshine recorders, was 176. This is about 56 per cent of the possible and about 4 per cent more than normal. There was about 1 per cent less sunshine than during the same month last year.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---1st, 6th, 7th, 8th, 23d, and 24th.

Hail, light, local.---On the 8th.

Halos, solar.---3d, 5th, 10th, 12th, 13th, 14th, 18th, 19th, 22d, 26th, 27th, and 28th.

Halos, lunar.---5th, 6th, and 7th.

Sleet or Glaze.---Light 1st, 10th, 16th, and 28th.

Thunderstorms.---8th, 20th, 21st, and 22d.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.03	84	69	168	56	5,828	8.7	31	n.	10
Hannibal	30.04	81	..	...	..	5,657	8.4	33	nw.	25
Kansas City	30.02	82	66	202	67	7,337	10.9	42	n.	10
St. Joseph	30.02	86	67	185	62	5,892	8.8	34	nw.	10
St. Louis	30.02	79	66	151	50	9,493	14.1	52	sw.	8
Springfield	30.02	84	62	155	51	7,992	11.9	34	nw.	10
Cairo, Ill	30.01	76	64	...	..	7,112	10.6	40	nw.	11
Keokuk, Iowa	30.04	81	67	149	50	5,237	7.8	29	w.	8

COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	33.0	+2.0	73	−11	2.04	−0.28	......	.....	7	....	....	....
1889	29.3	−1.7	73	− 9	2.57	+0.25	...	.....	7	....	....	....
1890	35.5	+4.5	81	− 7	2.24	−0.08	......	.....	7	....	....	....
1891	32.7	+1.7	76	− 8	2.28	−0.04	......	2.4	6	....	....	....
1892	37.7	+6.7	71	2	4.15	+1.83	......	.....	9	7	6	16
1893	27.9	−3.1	65	−20	1.98	−0.34	2.30	4.6	6	10	7	11
1894	30.8	−0.2	72	−12	2.52	+0.20	2.60	11.2	6	10	8	10
1895	23.6	−7.4	77	−26	0.55	−1.77	1.10	3.3	5	10	10	8
1896	35.6	+4.6	81	−10	1.61	−0.71	2.20	4.1	5	12	8	9
1897	34.8	+3.8	74	−15	2.30	−0.02	3.60	8.2	7	7	7	14
1898	35.4	+4.4	78	− 9	1.62	−0.70	2.90	0.8	5	13	6	9
1899	20.4	−10.6	72	−32	2.17	−0.15	4.30	5.3	6	12	8	8
1900	26.2	−4.8	70	−16	3.92	+1.60	2.85	16.6	10	10	6	12
1901	28.1	−2.9	76	−19	1.63	−0.69	2.36	7.6	6	13	7	8
1902	24.0	−7.0	72	−17	1.50	−0.82	2.35	5.8	5	11	8	9
1903	29.8	−1.2	74	−25	2.92	+0.60	2.65	5.3	7	11	6	11
1904	30.0	−1.0	82	−18	0.91	−1.41	1.46	1.5	5	11	8	10
1905	21.5	−9.5	69	−40	1.64	−0.68	1.20	13.2	8	11	6	11
1906	33.7	+2.7	73	−13	2.28	−0.04	2.40	4.1	7	15	6	7
1907	34.8	+3.8	77	−15	1.65	−0.67	3.72	4.5	6	12	5	11
1908	35.6	+4.6	78	− 7	4.32	+2.00	4.28	4.1	9	13	6	10
1909	38.8	+7.8	71	− 4	3.38	+1.06	2.50	3.1	9	13	5	10
1910	28.3	−2.7	72	−24	1.98	−0.34	3.00	7.7	6	12	6	10
1911	38.1	+7.1	87	0	3.64	+1.32	2.08	6.3	8	12	5	11
1912	28.3	−2.7	72	−12	2.45	+0.13	3.20	11.9	6	10	7	12
1913	29.8	−1.7	78	− 9	2.21	−0.18	4.78	8.5	7	12	5	11
1914	28.3	−3.2	75	−11	2.71	+0.42	2.80	14.0	7	12	6	10
1915	39.4	+8.0	72	7	3.18	+0.81	2.05	4.1	8	9	5	14
1916	31.4	+0.2	78	−12	0.98	−1.48	2.70	5.0	5	13	6	10
1917	30.5	−1.0	83	−22	0.41	−2.03	1.24	1.4	2	14	7	7
1918	34.9	+4.6	83	−25	1.11	−1.26	2.00	0.6	4	15	6	7
1919	35.3	+4.0	71	−10	1.98	−0.35	2.20	6.4	7	13	4	11
1920	34.5	+3.2	78	− 5	0.57	−1.68	1.41	1.2	4	11	6	12
1921	40.1	+9.1	86	5	0.94	−1.33	2.00	1.8	4	14	6	8
1922	35.4	+4.1	80	− 5	1.79	−0.44	1.65	1.9	5	14	6	8
1923	30.2	−1.2	75	− 9	1.37	−0.88	2.20	1.4	5	13	5	10
1924	33.8	+2.0	79	− 5	1.84	−0.31	1.60	8.1	7	14	4	11
1925	38.7	+6.9	78	1	1.85	−0.30	1.78	1.7	6	12	6	10

Climatological Data for February, 1925.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	35.0	+5.9	65	7†	8	27	38	1.89	+0.04	0.73	2.0	6	17	0	11	se.	O. K. Benecke
Clifton Hill	Randolph	731	26	36.1	+6.9	64	24	8	27	35	2.44	+1.11	0.62	4.2	7	10	6	12	......	Dr. A. J. Bradsher
Columbia	Boone	748	35	37.5	+5.8	64	20	10	27	34	1.41	−0.72	0.41	3.3	6	11	5	12	s.	U. S. Weather Bureau
Downing	Schuyler	878	4	34.4	......	61	7	4	27	30	1.25	−0.15	0.56	4.5	6	11	7	10	n.	E. E. St. Clair
Fayette	Howard	661	45	34.4[b]	+4.2	64	24	9	28	38	1.44	−0.46	0.65	3.0	4	..	..	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	37	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	....
Gorin	Scotland	700	38	....	......	..	..	..	..	..	1.36	−0.13	0.62	3.1	5	13	3	12	sw.	J. W. Pulliam
Hannibal	Marion	534	33	35.4	+5.7	65	7	8	27	30	2.40	+0.80	0.88	6.0	8	11	3	14	nw.	U. S. Weather Bureau
Jefferson City	Cole	557	37	38.2	+7.3	68	20	10	27	37	0.86	−1.23	0.26	3.0	5	15	5	8	n.	Miss Emma Swift
Kirksville	Adair	969	36	34.1[a]	+8.2	61	7	5	27	44	1.97	+0 15	1.03	2.0	6	10	4	14	sw.	Prof. J. S. Stokes
Louisiana	Pike	469	31	38.2	+8.5	67	8	6	12	36	3.62	+1.27	0.80	6.2	7	15	6	7	n.	J. T. Farrell
Macon	Macon	875	26	33.4	+4.7	65	7	7	26	42	2 03	+0.08	0.85	1.5	5	14	5	9	n.	W. C. Brown
Mexico	Audrain	800	36	35.4	+6.1	68	7	10	27	35	1.62	−0.59	0.50	3.7	7	20	0	8	s.	Mrs. Abbie Snoddy
St. Catharine††	Linn	800	14	35.4	+6.4	63	7	6	27	35	2.18	+0.94	0.97	2.5	7	13	6	9	s.	L. D. Baker
St. Charles	St. Charles	456	37	41.0	+8.5	71	6†	11	12†	33	1.29	−1.34	0.53	2.5	5	10	3	15	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	40.8	+6 0	69	6	12	27	27	2.19	−0.56	0.94	3.4	6	9	8	11	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	40.4	+8.2	69	6	12	27	26	2.26	−0 05	0.71	2.6	6	10	7	11	se.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	..	..	..	3.31	+1.39	1.03	0.5	6	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	27	35.2	+6.8	64	7	6	27	33	2.40	+0.55	0.55	9.0	8	9	6	13	n.	Frank Hall
Unionville	Putnam	1,062	32	33.8	+8.4	63	6	3	27	37	1.52	−0.31	0.85	2.0	4	11	7	10	n.	Geo. W. Davis
Warrenton	Warren	816	43	40.5	+10.6	68	6†	9	27	32	1.30	−0.89	0.57	4.0	7	13	4	11	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	33.6	+5.3	58	20	5	27	31	1.71	+0.09	0.60	6.7	8	8	7	13	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	36.5	+6.9	71	6†	3	27	47	1.92	−0.04	1.03	3.7	6	12	5	11	n.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	29	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	....
Doniphan	Ripley	344	21	43.6	+5.5	74	21	15	27	42	1.50	−1.65	0.96	0	4	9	12	7	s.	W.W. Martin
Jackson	Cape Girardeau	428	34	43.8	+8.3	72	20	14	27	36	3.38	+0.49	1.30	0.5	8	6	5	17	s	John G. Putz
Marble Hill	Bollinger	470	30	39.7	+4.4	71	20	12	12†	45	3 53	+0.25	1.12	0	7	14	8	6	s.	R.A. DeWitt
Parma	New Madrid	281	4	....	......	..	..	..	..		3.63	......	1.30	0	6	..	..	..	......	J.E. Pearce
Patton (near)	Bollinger	500	16	....	......	..	..	..	..	..	2.57	+0.63	1.20	0	6	..	..	..	......	George F. Ellis.
Poplar Bluff††	Butler	329	21	44.4	+8.1	73	21	16	26	38	2.19	−0.77	0.90	T.	4	16	2	10	s.	J. H. Wolpers
Vanduser	Scott	304	24	....	......	..	..	..	..	..	1.85	−1.41	0.67	0	6	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	50	44.4	+5.9	70	20	20	27	30	2.82	−0.51	1.01	T.	12	6	7	15	s.	U. S. Weather Bureau
Section means and	extremes	....	..	42.9	+6.0	74	21	12	12†	45	2.75	−0.37	1.30	0.1	7	9	8	11	s.	
Ozark Plateau.																				
Arcadia	Iron	926	44	38.7	+5.2	68	6	8	27	38	2.50	−0.66	0.73	T.	7	14	4	10	se.	Arcadia College
Birchtree	Shannon	1,000	30	43.8	+8.9	75	21	11	27	40	2.59	+0.10	0.80	0	7	15	5	8	se.	V. H. Kirkendall
Bolivar	Polk	1,071	31	38.6	+4.2	72	6	9	27	34	0.98	−1.31	0.45	0.9	6	15	5	8	s.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	76	8†	..	..	..	0,85	−0.98	0.43	T.	4	21	2	5	sw.	H. E. Dean
Eldon	Miller	934	29	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	E. H. Shepherd
Farmington	St. Francois	918	14	42.2	+6.6	70	6	9	27	34	2.18	−1.11	0.70	2.0	9	11	9	8	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	42.2	+7.7	70	5	8	27	34	1.85	−0.53	0.81	3 7	10	11	8	9	s.	A. C. Leach
Goodland	Iron	1,000	31	42.1	+9.2	76	22	2	27	42	2.17	−0.32	0.95	0.2	6	15	4	9	s.	F. M Adams
Greenville	Wayne	381	3	37.4	......	66	20	9	1	41	3.10	......	1.20	0	3	19	4	5	s	A. M. Rhodes
Hollister	Taney	735	38	44.0	+6.0	76	5†	15	12†	46	1.70	−0.38	0.90	0	2	12	6	10	n.	Mrs. W. P. Chapmann
Koshkonong	Oregon	958	24	45.0[a]	+7.5	75	21	14	27	36	2.26	−0.53	0.91	T.	6	10[a]	8[a]	9[a]	se.	R. M. Hitt
Lebanon	Laclede	1,265	37	40.2	+6.3	74	7†	4	27	50	0.64	−1.86	0.36	1.5	6	10	7	11	s.	Thomas E. Mulcare
Lockwood	Dade	1,078	19	42.8	+7.3	72	5	12	27	43	1.50	−0.47	0.50	0.2	6	13	5	10	sw.	C. S. Crow
Mountain Grove	Wright	1,463	24	41.0	+7.2	73	5	10	27†	47	2.42	+0 16	0.70	0.7	8	14	4	10	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	45.6	+9.0	76	5	16	27	43	1.69	−0.69	0.53	T.	4	16	6	6	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	43.2	+8.0	73	6	5	27	38	1.35	−0.99	0.45	3.5	5	14	8	6	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	46.4	+10.2	71	5†	14	27	42	1.43	−0.45	0.91	0.5	3	15	8	5	sw.	Floyd E. Fawver
Seymour	Webster	1,612	19	42.6	+10.2	72	5	10	27	39	1.25	−1.20	0.34	0.2	6	12	6	10	s.	Ira H. Hailey
Springfield	Greene	1,350	37	41.5	+6.3	71	5	12	27	33	1.06	−1.21	0.44	1.0	9	13	6	9	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	42.2	+7.5	76	5†	2	27	50	1.75	−0.73	1.20	0.8	6	14	6	8	s.	
Southwest Plain.																				
Amoret	Bates	831	18	39.2	+5.5	70	7	8	27	41	1.58	−0.57	1.25	1.2	4	18	3	7	n.	Andrew Rood
Appleton City	St. Clair	853	31	41.2	+8.9	71	7	11	27	34	1.32	−0.65	0.64	0.2	7	9	13	6	sw.	W. G. Bigelow
Clinton	Henry	765	32	41.2	+9.3	76	26	9	27	38	1.58	−0.52	0.50	2.0	6	9	12	7	sw.	A. E. Derwent, M. D
Harrisonville	Cass	904	48	36.6	+6.9	68	7	8	27	34	1.35	−0.67	0.60	0.5	8	9	2	17	s.	John H. Patterson
Lamar	Barton	980	38	41.2	+6.7	76	22	14	2†	47	1.30	−0.93	0.60	T.	5	14	8	6	sw.	Jesse A. Mann
Lamonte	Pettis	867	24	38.4	+6.8	69	7	10	27	40	2.33	+0.42	0.78	3.0	7	15	5	8	se.	J. E. Wheeler
Marshall	Saline	779	36	37.3[b]	+7.8	65	7	9	27	34	1.48	−0.36	0.65	3.1	5	5[f]	6[f]	11[f]	nw.	Dr. W. H. Black
Nevada††	Vernon	862	32	41.2	+9.3	70	7	11	27	37	0.84	−1.24	0 60	T.	3	16	5	7	s.	George A. Kaupp
Warrensburg ††	Johnson	878	38	39.2	+7.9	70	8	10	2†	39	1.52	−0.61	0.57	T.	6	13[a]	6[a]	8[a]	sw.	E. A. Markey.
Warsaw	Benton	687	25	41.4	+7.6	78	6	6	27	48	1.42	−1.14	0.30	1.0	6	13	6	9	e.	Everett Martin
Section means and	extremes	.....	..	39.8	+7.6	78	6	6	27	48	1.54	−0.55	1.25	1.4	6	12	7	9	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	35	35.2	+5.6	62	7†	6	27	33	3.10	+1.18	1 20	1.0	4	8	7	13	......	F. G. Ashbaugh
Bethany††	Harrison	916	33	35.8[e]	+8.8	61	6	12	1†	38	3.62	+2.18	1.66	5.0	6	10[e]	5[e]	8[e]	sw.	Owen Ross
Chillicothe	Livingston	779	16	32.6	+0.1	63	5	7	2†	44	2.37	+0.36	1.66	0	3	15	4	9	nw.	Wm. J. Olenhouse
Conception	Nodaway	980	36	34.5	+7.4	60	4†	6	27	31	2.08	+0.89	1.78	1.0	5	11	11	6	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	38.7[d]	......	65	7	8	2	36	1.87	+0.42	0.75	0.5	6	19	1	8	s.	Fred L. Stiff
Grant City	Worth	1,134	21	34.8	+7.5	61	5	6	27	35	0.45	−0.67	0.35	4.5	2	9	13	6	nw.	B. F. Locke
Kansas City	Jackson	963	36	38.0	+6.8	66	7	9	2	32	1.75	+0.16	1.15	1.2	7	12	7	9	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	32.1	+4.3	62	7	6	2	41	1 97	+0.45	1.32	1.0	3	14	2	12	nw.	Linn Terry
Lexington	Lafayette	688	40	37.5	+8.1	66	7†	9	2	35	1.58	−0.42	0.80	1.0	5	12	6	10	ne.	Edwin G. Loomis
Liberty	Clay	859	35	...	......	..	..	..	..	..	....	.....	....	....	..	..	..	..	......	....
Maryville	Nodaway	1,169	35	35.1	+11.0	61	4†	7	2†	33	1.50	+0.06	1.50	0	1	20	0	8	n.	J. R. Brink
Oregon	Holt	1,048	69	35.0	+6.8	59	7	6	2	29	1.26	−0 36	0.84	0.8	3	14	7	7	nw.	Tom Curry
St. Joseph	Buchanan	967	17	35.6	+5.4	64	7	8	2	31	0.87	−0.64	0.44	0.7	5	12	8	8	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	22	33.1	+5.1	60	20	1	2	41	0.89	−0.18	0.64	0.5	4	11	8	9	se.	Albert Volker
Trenton	Grundy	822	29	33.9	+5.4	57	7†	9	27	25	2.41	+0.88	1.53	0.5	6	12	7	9	s.	W. H. Estes
Section means and	extremes	.....	..	35.0	+6.1	66	7†	1	2	44	1.70	+0.15	1.78	1.0	4	13	6	9	nw.	
State means and	extremes	.....	..	38.7	+6.9	78	6	1	2	50	1.85	−0.30	1.78	1.7	6	12	6	10	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b], represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for February, 1925.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri									1.10	.12	.27										.09	.11	.36									2.05
Brunswick‖	Grand									.73	.38	.15										.30	.08	.25									1.89
Clifton Hill	Chariton							T.	.61	.37	.43										.21		.08	.62					.12				2.44
Columbia***	Missouri	T.							.41	T.	.33										.01	T.	.38	.19					.09				1.41
Downing	Mississippi	T.								,36	.18						T.					.03	.10	.56	.02								1.25
Fayette‖‖	Missouri										.65	.26									.09		.44										1.44
Fulton	....do																																....
Gorin	Mississippi	T.							.62		.21						.01						.05	.47									1.36
Hannibal***	....do	.02	.03						.35		.88						T.				.18		.35	.46					.13				2.40
Hermann‖	Missouri									.08		.30											.24	.05									0.67
Jefferson City‖	....do									.10		.25											.26	.24	.01								0.86
Kirksville	Mississippi	T.							.48	.12	.10						.02					.16	.06	1.03									1.97
Louisiana	....do			T.					.60		.80	.45						T.				.50	.75	.50					.02				3.62
Macon ‖	Chariton		T.							.22	.26										.57	.13	.85										2.03
Mexico ‖	Mississippi	T.								.27	.13	.37										.10	.50	.18	.07								1.62
Milan ‖	Grand		T.							.40	.20											.20	.25	.90									1.95
Pacific‖	Meramec		.09						T.	.68	T.	.38											.46		T.								1.61
St. Catharine	Grand	.02							.97	.07	.12										.15		.05	.80									2.18
St. Charles	Missouri	.26	T.						.53		.20	T.	.20										.10						T.				1.29
St Louis (1)***	Mississippi	T.	T.						.51	T.	.94						T.					.01	.53	01	T.	T.			.19				2.19
St. Louis (2)	....do	.05							.61		.71											T.	.65	.03					.21				2.26
Shelbina ‖‖	....do									1.03	.35	.65										.42		.72	.14								3.31
Steffenville	....do	T.							.55	T.	.50			.05	.30	T.	T.	T.	T.		.40	.20	.15	.25					T.				2.40
Union‖	Meramec		.08							.57		.12											.35		.03								1.15
Unionville	Chariton								.40	.27	T.	T.					T.						.15	.70									1.52
Valley Park‖	Meramec		.08							.78		.62											.45		T.								1.93
Warrenton	Mississippi	T.	T.						.52	.07	.20	.06											.29	.06					.10				1.30
Keokuk, Ia.***	....do	T.							.55	.05	.37						.02				.34		.05	.23		T.			.10				1.71
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi																																....
Caruthersville	....do																																....
Doniphan	Black								.04								T.					.40	.96	.10									1.50
Jackson	Mississippi	.28		.34						.67	.02											1.30	.45	.25			.05		.02				3.38
Marble Hill	Mississippi	.16	.08					.09		.75												1.12	1.05	.28									3.53
New Madrid‖	....do		.75							.36		.14				.19		.10				1.00	.11	1.40	.20	.01	.85						5.11
Parma	St. Francis						.40			.40												.70	1.30	.40		.43							3.63
Patton (near)	Mississippi									.10	.40											1.20	.57	.20	.10								2.57
Poplar Bluff	Black	T.							.90												.27	.20	.82				T.						2.19
Vanduser	Mississippi								.30			03										.60	.67	.20					.05				1.85
Cairo, Ill.***	....do	,21	.07					T.	.28		.03	T.			.06	05					.30	.65	1.01	.06		.07	T.		.03				2.82
Ozark Plateau.																																	
Annapolis‖	St. Francis	.18							.70		.25											.66	.82	.02				T.	.02				2.65
Arcadia ‖	....do	.26							T.	.73		.12	T.									.51	.68	.18				.02					2.50
Birchtree	Black		.25						.75	.06	.05											.50	.80						.18				2.59
Bolivar‖	Osage	.01							.20		.05											.18	.45				T.		,09				0.98
Dean	Neosho	T.							.43		.03												.28	.11									0.85
De Soto‖‖	Mississippi	T.							.64		.26											T.	.37	.05									1.32
Eldon	Missouri																																....
Farmington	St. Francis	T.	.15						.70		.22	.06					T.					.35	.48	.06			.06		.10				2.18
Fredericktown‖‖	.... do			.02	.21			.41				.37			.24			.52		T.	.09				T.			.05	.06				1.97
Galena‖‖	White									.60									.05			.05	.40	.40									1.50
Gano	Meramec	T.							.76	.05	.19	.12										.08	.23	.22	T.		.06	.06	.08				1.85
Goodland	Black	.35							.95		.15											.28	.24	.18				.02					2.17
Greenville	St. Francis								.80													1.20		1.10									3.10
Hollister	White								.80							.90																	1.70
Jerome ‖	Gasconade	.10								.42		.18									.30	.10	T.					T.					1.10
Koshkonong	Black		.13						.87		.10											.19	.94	.03				T.					2.26
Lebanon ‖	Osage	T.	T.							.09	.04											.04	.36	.06			.05						0.64
Lockwood	....do								.50		.03											.32	.40	.23				.02					1.50
Mountain Grove‖	White	T.	.02						T.	.70		.05					T.					.70	.58	.33	.02			.02					2.42
Neosho	Neosho	T.							.53		.15						T.					T.	.53	.48					T.				1.69
Rolla	Meramec								.45		.20											T.	.27	.35			.08		T.				1.35
Seligman	Neosho	T.							.91		.12												.40						T.				1.43
Seymour	White	.25	T.					T.	.34		T.						T.					.12	.34	.18				.02	T				1.25
Springfield***	....do	.03	T.						.39		.07						.01					.04	.40	.06			.04		.02				1.06
Steelville‖	Meramec									.76		.30											.36					.04					1.46
Tuscumbia ‖	Osage		T							.25	.03	.33										T.	.16	.04	.10			.06					0.97
Willow Sprgs.‖‖ (near)	White		.32							.80	.01						T.					.32	.65	.20									2.30
Southwest Plain.																																	
Amoret	Osage								1.25		.09												.22				.02						1.58
Appleton City	....do	T.	T.						.64	.03	.36											T.	.16	.10			.02		.01				1.32
Clinton	....do								.47	.08	.50												.30	.13			.10						1.58
Harrisonville‖	....do								.10	.60	.07	.15										.05	.06	.28				.04					1.35
Joplin*	Neosho								.55		.16											.15	.59										1.45
Lamar ‖	....do									.60		.05						T			.15	.15		.35				T.					1.30
Lamonte	Missouri								.62	.15	.78										.05		.50	.18			T.		.05				2.33
Marshall	.... do	T							.52	T.		.65					T				.10	T.		.16					.05				1.48
Nevada	Osage	T.							.60		.04												.20	T.				T.					0.84
Osceola‖‖	....do									.39	.25	.10											.27	.32									1.33
Warrensburg	Missouri	T.						T.	.57	.16	.40												.10	.28	.01		T.						1.52
Warsaw	Osage	T.							.30	.30	.25												.23	.24			.10						1.42
Waverly ‖	Missouri		T.						T.	.55	29	.15										.21	.04	.15									1.39
Northwest Plateau.																																	
Albany‖‖	Grand								.03	.10							.01				T.			2.50									2.64
Avalon	....do								.65		1.00									.25			1.20										3 10
Bethany	....do								.21	.63		.43					.05					T.	.64	1.66									3.62
Chillicothe ‖‖	....do		T.							.63	.04	T.											.01	1.66									2.37
Conception	Missouri	T.							.12	.05	.05						T.				T.		.08	1.78					T.				2.08
Edgerton	....do								.30	.05	.05						T.				.09		.75	.63									1.87
Gallatin ‖	Grand									.36	T.	.17										.11	T.	.87									1.51
Grant City	.... do								T.	.10							T.					T.	T.	.35					T.				0.45
Kansas City***	Missouri	T.	T.						.44	.01	.09						T.				.03		1.03	.14			T.		.01				1.75
Kidder ‖	Grand									.60	.05													1.32									1.97
Lexington ‖	Missouri									.48	.07											.18	.05	.80									1.58
Liberty	....do																																....
Maryville	....do																								1.50								1.50
Oregon	....do								.34		,08						T.						.84						T.				1.26
St. Joseph***	....do	T.	T.					T.	.44		.05						T.				.01		.29	.08			T.		T.				0.87
Tarkio	....do									.05	.05						T.						.15	.64					T.				0.89
Trenton	Grand	T.							.20	.32	.12						T.				.12		.12	1.53									2.41

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch.
*** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for February, 1925.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	26	30	49	59	60	62	65	54	48	34	36	51	38	43	51	34	41	52	50	54	53	52	41	65	40	22	31	38	..	..	..	45.7
	Minimum	21	12	19	21	30	30	30	40	32	32	21	19	23	21	21	28	14	15	24	24	32	39	37	29	32	17	8	11	..	..	..	24.4
Columbia	Maximum	31	28	49	57	60	62	64	58	39	36	32	50	38	41	51	42	41	58	52	64	56	63	48	63	49	23	30	34	..	..	..	47.1
	Minimum	21	15	20	35	36	36	47	39	33	24	19	16	26	19	28	24	16	31	27	40	42	43	33	38	23	16	10	24	..	..	..	27.9
Fayette	Maximum	30	30	48	56	58	62	63	56	38	35	35	50	39	44	53	32	42	58	51	54	62	..	..	64	40	22	30	36	..	..	..	[b]45.7
	Minimum	21	13	13	20	29	29	31	43	31	31	18	13	21	18	22	27	15	20	23	28	36	..	..	28	33	15	9	14	..	..	..	[b]23.2
Hannibal	Maximum	30	26	42	52	55	55	65	62	42	34	30	40	33	40	46	39	37	54	43	56	55	49	52	59	47	22	25	38	..	..	..	43.9
	Minimum	23	17	24	32	36	37	35	42	34	23	18	14	25	16	29	21	13	27	27	33	43	43	36	37	22	15	8	22	..	..	..	26.9
Jefferson City §§	Maximum	33	31	52	61	61	57	67	63	42	39	32	52	38	43	51	41	42	57	48	68	61	65	41	63	43	23	32	31	..	..	..	47.8
	Minimum	29	17	18	27	36	39	40	55	34	34	17	14	23	18	26	32	21	22	26	31	46	44	33	36	35	18	10	16	..	..	..	28.5
Kirksville	Maximum	33	29	46	55	57	60	61	57	41	34	34	44	42	41	48	41	..	53	46	56	50	41	41	56	54	31	27	38	..	..	..	[a]45.0
	Minimum	12	9	18	29	28	30	33	40	29	30	17	16	25	14	25	20	..	9	22	27	35	32	32	29	30	11	5	19	..	..	..	[a]23.2
Louisiana	Maximum	40	43	34	55	56	60	63	67	54	45	36	38	42	42	52	48	40	48	53	66	62	64	62	50	60	42	25	57	..	..	..	50.1
	Minimum	25	20	22	28	32	34	33	36	36	33	16	6	26	10	20	28	18	22	28	30	40	44	35	35	35	15	10	18	..	..	..	26.2
Macon§§	Maximum	25	30	47	57	60	60	65	57	33	35	41	35	42	50	32	40	56	47	57	49	50	40	60	40	22	30	27	40	..	..	..	43.9
	Minimum	17	11	11	20	31	32	33	41	32	15	16	20	19	24	25	11	14	23	25	38	38	35	33	32	14	7	9	12	..	..	..	22.8
Mexico§§	Maximum	31	31	47	56	54	57	68	61	39	34	34	46	34	44	50	31	41	56	49	58	57	64	39	62	44	24	25	37	..	..	..	45.5
	Minimum	20	14	11	24	35	36	39	47	18	31	20	15	18	15	19	29	15	21	25	26	39	41	34	34	36	16	10	11	..	..	..	25.2
St. Catharine	Maximum	41	27	45	54	57	57	63	57	44	35	36	46	44	43	51	44	40	53	50	57	51	45	45	59	59	35	27	37	..	..	..	46.5
	Minimum	15	9	18	27	31	31	38	41	30	28	18	16	24	17	16	24	11	25	23	30	38	35	34	30	33	12	6	20	..	..	..	21.3
St. Louis(1)	Maximum	42	31	42	61	64	69	61	66	47	45	30	42	40	45	50	51	38	53	49	64	66	65	55	52	48	30	28	39	..	..	..	49.1
	Minimum	31	27	26	36	44	47	49	47	35	29	17	22	29	27	33	28	22	30	30	37	52	52	39	37	30	19	12	23	..	..	..	32.5
Unionville	Maximum	30	28	47	57	60	63	61	55	40	35	34	47	42	40	48	44	42	52	48	60	50	42	40	58	55	32	28	36	..	..	..	45.5
	Minimum	14	6	18	24	30	27	28	37	28	30	18	20	22	18	22	20	5	22	20	26	32	30	30	29	30	10	3	18	..	..	..	22.0
Warrenton	Maximum	53	33	45	58	65	68	68	64	53	39	32	46	45	43	51	48	42	55	55	66	67	64	63	60	58	39	31	38	..	..	..	51.8
	Minimum	27	19	23	32	36	40	43	52	34	30	12	16	26	18	27	33	19	26	24	34	51	45	35	36	35	16	9	19	..	..	..	29.2
Southeast Lowlands.																																	
Caruthersville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Doniphan	Maximum	58	54	45	58	64	63	62	67	59	51	38	48	53	50	54	60	56	53	59	69	74	69	56	50	58	53	35	46	..	..	..	55.9
	Minimum	46	26	25	23	28	42	43	56	41	35	22	15	27	26	26	27	29	19	24	27	40	54	40	39	39	24	15	20	..	..	..	31.4
Jackson	Maximum	54	53	43	55	65	68	69	71	66	55	55	47	49	48	57	60	57	55	58	72	67	63	58	45	49	45	32	44	..	..	..	55.7
	Minimum	39	27	25	23	35	43	42	56	42	37	19	18	29	25	28	28	27	19	25	29	52	54	40	38	40	21	14	18	..	..	..	31.9
Poplar Bluff	Maximum	58	57	46	62	68	66	65	68	58	58	42	49	55	51	59	64	57	57	64	72	73	65	57	50	60	50	38	43	..	..	..	57.6
	Minimum	29	26	23	21	35	40	55	43	36	22	18	27	26	28	27	30	19	20	27	50	50	50	39	36	25	16	20	31	..	..	..	31.1
Cairo, Ill.	Maximum	55	42	41	53	65	66	68	69	57	60	35	41	49	48	52	58	43	53	55	70	62	61	54	45	49	39	32	48	..	..	..	52.7
	Minimum	42	29	27	30	39	48	54	54	44	35	21	23	36	31	35	35	30	30	38	40	53	53	41	40	39	24	20	24	..	..	..	36.2
Ozark Plateau.																																	
Arcadia§§	Maximum	51	23	46	59	66	68	58	61	52	48	32	46	47	47	55	57	45	51	59	65	67	58	47	46	45	28	33	37	..	..	..	49.9
	Minimum	32	22	21	21	28	35	40	51	38	37	16	15	16	21	20	22	24	19	27	30	32	51	46	35	35	18	8	10	..	..	..	27.5
Birchtree	Maximum	59	53	48	65	70	69	59	62	56	52	36	52	52	49	57	59	55	54	63	68	75	67	55	54	57	48	38	37	..	..	..	56.0
	Minimum	41	21	20	27	36	44	50	51	38	31	19	12	30	24	27	40	21	21	30	36	50	51	38	35	42	20	11	19	..	..	..	31.6
Eldon	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Farmington	Maximum	54	49	47	60	65	70	62	64	53	50	42	48	42	48	53	56	45	52	59	68	68	60	51	52	47	42	34	38	..	..	..	52.9
	Minimum	38	23	23	29	35	47	46	51	38	38	15	18	30	22	27	31	24	23	29	34	50	53	37	36	40	18	9	22	..	..	..	31.6
Hollister	Maximum	60	50	48	52	76	75	71	70	72	62	52	60	62	63	62	60	62	63	65	72	70	68	76	72	64	60	42	35	..	..	..	62.3
	Minimum	44	20	18	22	22	30	38	36	39	30	22	15	18	20	22	18	20	20	22	26	24	22	38	36	28	22	25	22	..	..	..	25.7
Koshkonong	Maximum	58	53	49	65	72	68	61	61	57	56	39	52	55	50	59	61	54	55	64	..	75	67	55	58	58	52	37	38	..	..	..	[a]56.6
	Minimum	46	23	20	30	38	44	50	53	38	34	22	21	32	22	31	36	28	28	34	..	39	54	40	38	44	25	14	20	..	..	..	[a]33.5
Lebanon§§	Maximum	60	59	54	68	74	74	65	64	54	51	34	55	43	49	56	51	50	61	62	59	61	66	41	62	51	27	31	37	..	..	..	51.5
	Minimum	39	9	9	18	36	36	44	49	32	40	16	16	19	19	20	25	21	21	23	23	41	46	36	28	30	17	4	7	..	..	..	25.9
Mountain Grove§§	Maximum	53	46	50	63	73	67	60	60	56	51	44	53	49	49	54	53	51	55	62	66	70	59	53	58	54	41	36	32	..	..	..	54.2
	Minimum	32	18	16	16	34	40	45	48	35	35	19	19	22	22	22	23	24	24	26	26	39	52	40	32	33	20	10	10	..	..	..	27.9
Neosho	Maximum	54	47	57	69	76	72	74	70	61	60	41	58	59	48	59	62	52	60	66	68	72	67	66	69	69	59	46	42	..	..	..	60.8
	Minimum	38	16	18	31	33	34	41	43	36	31	23	20	29	25	21	28	25	25	25	36	49	50	38	33	42	25	16	21	..	..	..	30.5
Rolla	Maximum	59	35	55	67	70	73	66	63	58	58	31	52	51	46	57	53	46	55	62	68	68	63	61	60	56	40	35	35	..	..	..	55.1
	Minimum	34	18	20	32	40	49	51	51	35	28	16	18	29	23	26	35	22	29	28	40	53	47	35	35	37	17	5	22	..	..	..	31.2
Springfield	Maximum	51	25	51	65	71	68	66	60	54	48	36	54	43	48	53	48	46	56	60	65	62	61	48	66	55	28	34	32	..	..	..	51.9
	Minimum	22	14	21	38	45	49	50	36	31	27	21	23	30	25	28	28	24	33	30	43	51	48	37	33	28	16	12	24	..	..	..	31.1
Southwest Plain.																																	
Amoret	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Appleton City	Maximum	47	27	50	62	65	66	71	65	50	47	40	53	47	43	54	47	41	58	60	68	64	69	60	66	59	36	32	33	..	..	..	53.0
	Minimum	26	13	20	33	35	32	43	43	33	31	23	23	29	23	25	30	20	28	26	36	46	47	37	32	35	18	11	25	..	..	..	29.4
Clinton	Maximum	40	45	56	64	65	65	72	68	57	47	37	47	47	43	54	52	44	60	58	76	64	70	60	68	63	40	32	37	..	..	..	54.7
	Minimum	24	20	19	32	32	32	42	40	32	30	20	22	27	20	24	28	20	26	24	35	36	45	35	30	34	17	9	22	..	..	..	27.8
Harrisonville§§	Maximum	28	29	51	58	59	62	68	46	43	35	41	55	40	44	54	32	41	56	56	66	64	66	50	67	48	22	29	32	..	..	..	48.0
	Minimum	25	10	10	20	30	34	38	41	32	32	20	20	21	20	23	29	14	14	24	25	37	41	36	33	33	18	8	9	..	..	..	25.1
Lamar§§	Maximum	37	28	53	66	72	67	72	60	58	43	41	55	41	44	57	45	48	57	64	74	71	76	61	68	56	29	35	35	..	..	..	54.2
	Minimum	35	14	14	23	34	34	34	48	36	37	23	23	27	24	23	24	23	23	26	27	41	45	31	31	36	23	14	14	..	..	..	28.1
Lamonte	Maximum	34	26	52	63	63	64	69	59	44	38	36	53	40	45	57	40	47	60	62	68	61	66	51	68	51	31	34	38	..	..	..	50.7
	Minimum	19	11	17	30	31	30	39	43	31	26	18	16	26	18	23	27	16	26	22	34	45	42	34	31	29	17	10	23	..	..	..	26.2
Marshall	Maximum	46	28	..	50	57	60	65	58	43	..	34	52	42	44	55	50	45	58	54	56	56	41	49	63	57	32	31	31	..	..	..	[b]48.5
	Minimum	22	11	..	29	31	30	35	43	32	..	18	15	25	19	23	28	11	24	24	31	41	44	34	29	32	16	9	19	..	..	..	[b]26.1
Nevada	Maximum	42	28	51	63	67	67	70	63	52	47	38	52	49	40	55	50	50	56	62	63	61	66	61	67	54	38	32	33	..	..	..	53.0
	Minimum	27	13	20	35	32	30	45	41	34	31	22	23	27	23	23	30	21	30	25	40	41	47	37	37	35	19	11	24	..	..	..	29.5
Warrensburg	Maximum	35	28	51	61	63	64	69	70	45	47	37	53	42	44	55	41	45	59	59	67	61	67	61	67	65	33	25	36	..	..	..	51.8
	Minimum	23	10	19	32	35	30	31	31	32	29	18	24	26	20	32	25	14	29	23	38	42	41	35	32	33	18	10	12	..	..	..	26.7
Warsaw	Maximum	48	28	54	65	68	78	70	66	51	49	36	57	52	44	55	54	48	60	57	70	67	69	65	68	65	45	34	35	..	..	..	55.6
	Minimum	27	14	17	34	29	30	38	45	35	30	21	18	28	18	20	27	22	21	25	22	49	47	37	27	38	17	6	22	..	..	..	27.3
Northwest Plateau.																																	
Chillicothe §§	Maximum	21	29	51	58	63	60	62	50	36	33	34	50	34	42	52	31	43	51	50	47	45	47	39	62	38	22	30	32	..	..	..	43.4
	Minimum	16	7	7	19	27	29	29	36	30	30	19	20	24	17	20	25	11	12	24	25	30	34	33	29	31	14	7	8	..	..	..	21.9
Grant City	Maximum	27	25	50	60	61	60	58	57	35	32	40	48	41	40	50	41	45	55	53	58	51	49	43	59	59	26	27	38	..	..	..	46.2
	Minimum	10	6	19	25	34	30	32	34	29	24	20	21	24	27	21	21	11	25	21	29	31	31	32	29	25	12	6	21	..	..	..	23.4
Kansas City	Maximum	24	30	54	64	57	59	66	59	39	34	38	53	37	45	54	45	45	55	55	64	57	52	47	63	46	25	32	34	..	..	..	47.6
	Minimum	12	9	22	37	38	36	45	32	31	28	23	29	26	26	30	20	18	33	30	41	38	38	34	36	25	17	12	26	..	..	..	28.3
Kidder§§	Maximum	21	26	50	60	55	59	62	41	35	33	37	48	33	41	51	28	43	52	48	55	48	40	39	60	37	22	28	35	..	..	..	42.4
	Minimum	14	6	9	19	31	32	32	30	28	28	18	18	22	19	19	21	13	14	23	21	32	31	32	29	30	14	8	8	..	..	..	21.8
Lexington§§	Maximum	30	30	48	59	56	55	66	66	40	37	39	53	46	45	53	42	45	55	52	54	56	54	51	65	57	34	30	34	..	..	..	48.3
	Minimum	21	9	20	30	32	32	37	45	31	32	21	22	27	19	24	26	13	25	23	32	41	37	35	30	33	17	10	23	..	..	..	26.7
Maryville	Maximum	23	25	54	61	61	58	58	54	34	33	40	49	39	41	52	42	46	53	50	59	52	41	40	60	50	38	29	40	..	..	..	45.9
	Minimum	11	7	21	29	35	32	31	33	27	27	20	26	21	19	20	20	18	24	28	31	31	35	32	31	25	11	7	23	..	..	..	24.3
Oregon	Maximum	25	24	50	57	55	55	59	57	35	34	36	46	40	40	50	46	42	52	49	56	54	45	52	58	51	29	28	38	..	..	..	45.1
	Minimum	12	6	21	31	33	34	39	35	27	25	20	25	24	19	22	20	14	31	24	33	32	35	31	33	26	15	7	24	..	..	..	24.9
St. Joseph	Maximum	22	26	51	62	59	59	64	54	36	31	38	49	34	42	51	36	45	55	52	57	51	48	45	61	42	22	31	35	..	..	..	45.4
	Minimum	10	8	23	32	34	30	36	32	29	27	22	27	25	22	26	19	16	2	28	37	31	36	34	33	22	16	10	25	..	..	..	25.9
Trenton	Maximum	27	25	47	51	54	53	57	52	38	31	33	45	31	39	46	42	39	51	46	53	48	45	42	57	50	28	25	36	..	..	..	42.8
	Minimum	15	9	21	28	32	31	32	38	31	30	20	23	21	21	27	20	14	26	26	30	35	30	33	32	28	15	9	22	..	..	..	25.0

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 4-13-25—845.

NMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

MAY 14 1973

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXIX. COLUMBIA, MO., MARCH, 1925. No. 3.

GENERAL SUMMARY.

March, 1925, in Missouri, was, as a rule, marked by uniformly mild temperatures, much bright weather, and rather light precipitation. The only adverse feature, which fortunately was local, was the destructive tornado of the afternoon of the 18th, in the southeastern part of the State.

The first few days were cold, but about the 6th, a change to milder weather had occurred, and mainly pleasant conditions prevailed from then to the end of the month. There were 17 clear days, making in this feature almost a record for March.

The precipitation was less than normal in all sections. The snowfall was scanty. In the southwestern part of the Ozark Plateau, in Barry and adjoining counties, it was about the driest March of record. However, in nearly all of the State the total monthly moisture was sufficient for early spring needs.

The month's weather was favorable for winter and spring grains, and orchards. It also favored live stock, farm, and highway work, and other outdoor occupations. The automobile and other trade lines were favorably affected.

TEMPERATURE.

The monthly mean temperature for the State, 64 stations reporting, was 47.7°, or 3.9° above the 36-year normal, and something more than 9° warmer than the same month last year. It was the warmest March since 1921, and seventh warmest of record. The only real cold weather prevailed during the first two or three days; on the 2d temperatures ranged from around zero to 8° or 10° above, generally. On and after the 6th the weather was mainly mild. Afternoon temperatures reached into the eighties on the 8th, 9th, and 23d. The extremes were 5° below zero, at Amoret, on the 2d, and 86° above zero, at Mexico on the 9th. There were only about 13 days with minimum temperature of 32° or lower.

PRECIPITATION.

The monthly precipitation for the State, 98 stations reporting, was 1.95 inches, or about 1.05 inches less than the 56 years' average. The month was drier than usual in all sections, the deficiency in moisture being more marked in the southeastern lowlands and Ozark Plateau than elsewhere. The precipitation was heaviest and somewhat more frequent during the second decade; and rather light and scattered the first 10 days and after the 20th.

The snowfall was unusually scanty for March, most of the month being too warm for snow. The average monthly fall for the State was less than 1 inch; there were some local amounts of 2 inches.

WIND.

The prevailing winds were from the south. The average monthly movement, 8 stations equipped with anemometers reporting, was 9,435 miles, or about 11 miles per hour. Winds of from 40 to over 50 miles an hour occurred on the 3d, 18th, 20th, and 26th. A destructive tornado passed over parts of Reynolds, Iron, Madison, Bollinger, and Perry Counties the afternoon of the 18th. See page 13.

SUNSHINE AND CLOUDINESS.

There were 17 clear days, as compared with 8 in last March. The average number of hours of sunshine, 6 well placed stations equipped with sunshine recorders reporting, was 270. This is about 73 per cent of the possible, 18 per cent more than normal, and about 33 per cent more than March, 1924.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---5th, 13th, 17th, 18th and 19th.

Hail.---At Bolivar, Lockwood, and Seymour on the 18th. Arcadia, and Farmington on the 26th. No damage.

Halos, solar.---1st, 4th, 6th, 7th, 9th, 12th, 17th, 20th, 21st, 23d, and 24th.

Halos, lunar.---3d, 6th, and 9th.

Sleet, light.---Seymour on the 4th, and 11th. Arcadia, and Springfield on the 11th.

Thunderstorms.---13th, 17th, 18th, and 26th.

Winds.---At Downing, and St. Catharine, a high wind on the 20th, blew a roof of a store building at the former, and blew tops off smoke stacks at the latter place. Damage several hundred dollars.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity. 7 a. m.	Mean relative humidity. 7 p. m.	Sunshine. Total hours.	Sunshine. Percentage of possible.	Wind. Total movement, miles.	Wind. Average hourly velocity.	Wind. Max. velocity. Miles per hour.	Wind. Max. velocity. Direction.	Wind. Max. velocity. Date.
Columbia	30.10	77	57	277	75	7,267	9.8	31	nw.	26
Hannibal	30.11	73	..	...	..	7,131	9.6	34	s.	20
Kansas City	30.08	74	54	293	79	8,874	11.9	40	n.	26
St. Joseph	30.07	74	48	268	72	7,489	10.1	40	sw.	20
St. Louis	30.10	70	51	268	72	10,552	14.2	48	s.	3
Springfield	30 09	71	46	267	72	9,476	12.7	38	sw.	10
Cairo, Ill	30.11	71	48	...	..	8,021	10.8	54	sw.	18
Keokuk, Iowa	30.10	75	55	249	67	6,571	8.8	30	s.	20

COMPARATIVE DATA FOR MARCH.

Year.	Temperature. Mean.	Temperature. Departure.	Temperature. Highest.	Temperature. Lowest.	Precipitation. Mean.	Precipitation. Departure.	Precipitation. Greatest in 24 hours.	Precipitation. Total snowfall, unmelted.	Number of days. With .01 inch or more.	Number of days. Clear.	Number of days. Partly cloudy.	Number of days. Cloudy.
1888	38.5	−4.8	90	1	4.02	+1.11	....	....	10	....	....	....
1889	44.3	+1.0	84	13	1.98	−0.93	....	....	5	....	....	....
1890	37.3	−6.0	76	−11	2.61	−0.30	....	5.7	8	....	....	....
1891	36.6	−6.7	78	−11	3.01	+0.10	....	7.1	10	....	....	....
1892	38.9	−4.4	87	5	3.11	+0.20	....	....	8	8	10	13
1893	40.5	−2.8	86	1	2.86	−0.05	2.15	3.2	7	11	10	10
1894	47.7	+4.4	89	2	2.93	+0.02	3.20	0.2	6	15	9	7
1895	42.4	−0.9	98	0	2.14	−0.77	3.00	4 4	9	14	7	10
1896	39.2	−3.9	82	2	2.05	−0 86	4 47	5.2	8	11	9	11
1897	44.2	+0.9	93	− 5	6.07	+3.16	4.10	1.0	12	9	9	13
1898	44.7	+1.4	83	9	7.09	+4.18	3.87	0.6	11	11	7	13
1899	37.4	−4.1	78	− 8	2.93	+0.02	4.30	8.9	6	9	11	11
1900	40.4	−1.9	88	− 4	1.48	−1.43	3.41	0.2	6	15	9	7
1901	42.7	−0.6	85	− 1	3.74	+0 83	3.21	1.8	8	11	8	12
1902	45.3	+2.0	85	1	3.49	+0.58	5.60	0.8	9	10	10	11
1903	46.8	+3.5	81	9	3.35	+0.44	6.19	1.1	8	13	7	11
1904	44.8	+1.5	87	8	4.14	+1.23	7.50	1.2	9	11	9	11
1905	50.3	+7.0	88	10	2.99	+0.08	2.67	T.	8	11	8	12
1906	34.6	−8.7	75	− 5	3.93	+1.02	3.00	8 6	11	6	7	18
1907	53.9	+10.6	95	16	2.82	−0.09	3.08	1.0	7	14	7	10
1908	50.1	+6.8	89	14	2.58	−0.33	2.55	1.0	7	14	7	10
1909	44.5	+1.2	81	9	3.07	+0.16	3 30	0.6	6	13	9	9
1910	55.8	+12.5	96	15	0.66	−2.25	2.25	0.1	2	20	7	4
1911	46.8	+3.5	91	5	1.85	−1.06	2.00	1.4	6	16	8	7
1912	35.2	−8.1	89	− 4	4.62	+1.71	2.85	16.5	11	12	6	13
1913	40.6	−3.7	84	−12	4.36	+1.31	7.97	5.0	9	12	8	11
1914	43.2	−1.3	87	− 2	2.75	−0.41	3.01	4.7	8	13	7	11
1915	36.4	−8.1	70	6	1.50	−1.74	1.85	7.9	6	7	8	16
1916	47.0	+1.3	95	− 2	2.53	−0.65	4.25	3.1	7	14	8	9
1917	45.2	+1.7	86	− 7	2.91	−0.42	4.08	1.5	7	15	7	9
1918	50.9	+7.8	95	8	0.94	−2.05	2.25	0.1	4	18	6	7
1919	46.3	+2.9	90	− 2	2.40	−0 69	5.37	0.7	6	15	8	8
1920	44.6	+1.4	86	− 6	5.01	+2.09	6.00	1.4	8	15	6	10
1921	51.9	+8.5	90	11	4.69	+1.68	2.88	0.5	10	13	9	9
1922	45.6	−1.4	80	3	6.46	+3.38	4.00	2.2	12	11	6	14
1923	40.4	−3.1	83	−11	4.12	+1.00	2.84	2.3	8	14	6	11
1924	38.4	−5.4	80	8	2.55	−0.45	2.38	9.4	8	8	8	15
1925	47.7	+3.9	86	− 5	1.95	−1.05	2.55	0.8	5	17	8	6

Climatological Data for March, 1925.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	44.4	+ 2.5	79	7†	6	2†	44	1.36	−1.20	0.50	1.0	8	21	0	10	ne.	O. K. Benecke
Clifton Hill	Randolph	731	26	45.2	+ 3.0	77	7	0	2	47	1.01	−1.64	0.60	2.0	6	14	7	10	......	Dr. A. J. Bradsher
Columbia	Boone	748	35	47.0	+ 4.4	78	6	4	2	37	2.63	−0.40	1.57	1.2	9	16	10	5	s.	U. S. Weather Bureau
Downing	Schuyler	878	4	44.2	......	76	7†	3	2	38	2.20	−0.16	1.26	T.	7	19	1	11	s.	E. E. St. Clair
Fayette	Howard	661	45	45.2[b]	+ 3.1	79	23	3	2	50	2.73	−0.08	0.89	1.0	6	..	..	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	37	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	....
Gorin	Scotland	700	38	....	......	..	..	..	..	..	1.71	−0.75	1.15	T.	3	16	9	6	nw.	J. W. Pulliam
Hannibal	Marion	534	33	45.2	+ 4.2	77	23	4	2	38	2.09	−0.67	1.06	1.3	6	17	8	6	nw.	U. S. Weather Bureau
Jefferson City	Cole	557	37	48.2	+ 5.0	81	7	5	2	41	2.44	−0.38	0.72	3 0	8	23	3	5	s.	Miss Emma Swift
Kirksville	Adair	969	36	44.0	+ 4.5	75	23	11	2	38	1.53	−1.24	1.02	T.	4	15	0	16	sw.	Prof. J. S. Stokes
Louisiana	Pike	469	31	48.4	+ 5.1	77	26	6	2	42	5.16	+2.26	2.55	1.3	7	24	3	4	n.	J. T. Farrell
Macon	Macon	875	26	44.6	+ 2.0	77	23	− 1	2	48	1.84	−0.85	0.64	0.8	8	22	2	7	sw.	W. C. Brown
Mexico	Audrain	800	36	46.0	+ 4.0	86	9	0	2	50	2.23	−0.56	0.96	2.0	6	25	0	6	s.	Mrs. Abbie Snoddy
St. Catharine	Linn	800	14	44.8	+ 2.3	74	7†	− 1	2	39	1.20	−1.47	0.79	1.0	4	15	14	2	s.	L. D. Baker
St. Charles	St. Charles	456	37	48.6	+ 4.2	81	7†	5	2	43	3.78	+0.69	2.40	0	2	14	4	13	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	48.6	+ 4.4	81	24	7	2	37	1.50	−1.93	0.59	T.	7	17	10	4	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	48.2	+ 4.6	81	24	6	2	37	1.76	−1.19	0.80	0.1	8	16	10	5	se.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	..	..	..	2.27	−0.58	0.70	1.6	7	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	27	43.2	+ 0.8	77	23	3	2	41	1.49	−1.42	0.75	2.0	3	11	14	6	n.	Frank Hall
Unionville	Putnam	1,062	32	43.5	+ 4.9	78	25	1	2	38	1.85	−0.54	1.30	T.	2	12	8	11	n.	Geo. W. Davis
Warrenton	Warren	816	43	49.0	+ 6.8	81	7	0	2	42	2.30	−1.07	1.25	1.0	5	17	10	4	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	43.4	+ 4.5	76	23	3	2	37	0 95	−1.42	0.54	0.6	6	12	12	7	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	45.9	+ 3.9	86	9	− 1	2	50	2.10	−0.70	2.55	0.9	6	17	7	7	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	29	...	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	....
Doniphan	Ripley	344	21	51.7	+ 2.3	81	8†	12	2	44	3.11	−0.48	1.04	T.	5	12	11	8	nw.	W.W. Martin
Jackson	Cape Girardeau	428	34	51.3	+ 4.1	83	8	7	2	44	2.30	−2.04	0.99	1.0	5	10	9	12	s.	John G. Putz
Marble Hill	Bollinger	470	30	51.6	+ 4.2	83	8	18	3	40	3.17	−1.01	1.68	0	5	20	7	4	n.	R.A, DeWitt
Parma	New Madrid	281	4	....	......	..	..	..	..	..	2.75	......	1.02	0	4	..	..	..	......	J.E. Pearce
Patton (near)	Bollinger	500	16	....	......	..	..	..	..	..	1.92	−2.14	0.77	0	4	..	..	..	.....	George F. Ellis.
Poplar Bluff††	Butler	329	21	52.4	+ 3.6	84	8	13	1	44	1.92	−2.60	0.90	0	5	20	7	4	s.	J. H. Wolpers
Vanduser	Scott	304	24	....	......	..	..	..	..	..	2.52	−1.98	0.95	0	7	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	50	51.8	+ 4.6	81	8	11	2	33	2.19	−1.83	0.61	1.3	8	13	7	11	s.	U. S. Weather Bureau
Section means and	extremes	....	..	51.6	+ 3.8	83	8	7	2	44	2.57	−1.58	1.68	0.3	5	14	8	9	s.	
Ozark Plateau.																				
Arcadia	Iron	926	44	45.0	+ 0.2	77	8†	5	2†	46	1.59	−2.48	0.63	T.	6	19	2	10	se.	Arcadia College
Birchtree	Shannon	1,000	30	50.4	+ 3.0	82	8	7	2†	44	1.48	−2.77	0.77	T.	4	24	3	4	n.	V. H. Kirkendall
Bolivar	Polk	1,071	31	50.8	+ 4.7	82	8	2	2	39	3.18	+0.14	1.98	2.0	4	21	5	5	s.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	84	8	..	..	..	0.28	−3.07	0.15	0	2	23[b]	5[b]	1[b]	sw.	H. E. Dean
Eldon	Miller	934	29	52.5[j]	+ 9.0	79	23†	..	..	44	1.44	−1.39	1.44	0	1	11[j]	7[j]	3[j]	ne.	E. H. Shepherd
Farmington	St. Francois	918	14	49.6	+ 2.7	80	7	4	2	41	1.48	−1.79	0.43	T.	9	15	14	2	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	51.5	+ 4.6	80	7†	2	2	40	1.15	−2.15	0.53	1.3	6	20	7	4	s.	A. C. Leach
Goodland	Iron	1,000	31	49.0	+ 4.1	81	8	5	2	53	1.30	−2.95	0 57	0	5	17	8	6	s.	F. M Adams
Greenville.	Wayne	381	3	50.0	......	83	25	10	2	41	2.86	......	1.57	0	5	21	3	7	s.	Wm. P. Owens
Hollister	Taney	735	38	48.8	+ 0.1	88	8	9	2	62	0.45	−2.78	0.45	T.	1	19	5	7	sw.	Mrs. W. P. Chapman
Koshkonong	Oregon	958	24	53.8	+ 4.2	84	8	10	2	36	1.20	−2.61	0.61	0.5	7	19	6	6	sw.	R. M. Hitt
Lebanon	Laclede	1,265	37	47.4	+ 2.0	80	7	0	2†	45	2.07	−1.88	0.95	1.5	6	13	11	7	e.	Thomas E. Mulcare
Lockwood	Dade	1,078	19	51.8	+ 3.9	82	8	22	1†	38	2.42	−0.04	1.59	0	2	20	4	7	sw.	C. S. Crow
Mountain Grove	Wright	1,463	24	48.3	+ 2.3	82	8	4	2†	50	0.87	−3.47	0.40	0.2	8	19	7	5	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	53.4	+ 5.2	84	8	9	2	47	1.79	−1.68	1.34	T	4	25	5	1	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	51.2	+ 6.2	81	7	3	2	40	2.12	−1.47	1.30	1.0	5	19	8	4	s	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	53.2[a]	+ 7.0	82	8	6	2	54	0.70	−3.24	0.60	0.5	2	21[a]	8[a]	1[a]	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,642	19	49.9	+ 4.7	82	8	1	2	40	0.81	−3.25	0.60	1.0	3	22	6	3	s.	Ira H. Hailey
Springfield	Greene	1,350	37	50.1	+ 4.9	82	8	4	2	33	1.07	−3.00	0.74	1.8	4	22	5	4	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	50.7	+ 4.3	84	8	0	2†	62	1.48	−2.17	1.98	0.5	4	20	7	4	s.	
Southwest Plain.																				
Amoret	Bates	831	18	48.6	+ 4.7	80	7†	− 5	2	45	2.74	+0.24	1.00	2.0	5	21	9	1	n.	Andrew Rood
Appleton City	St. Clair	853	31	49.8	+ 5.2	78	7	− 2	2	37	2.57	−0.50	1.23	2.0	4	15	15	1	sw.	W. G. Bigelow
Clinton	Henry	765	32	50.6	+ 6.3	80	7	3	2	45	3.01	+0.15	1 55	2.0	6	15	12	4	sw.	A. E. Derwent, M. D
Harrisonville	Cass	904	48	45.2	+ 4.3	76	23†	− 3	2	56	2.22	−0.47	0.67	2.0	6	5	5	21	s.	John H. Patterson
Lamar	Barton	980	38	49.0	+ 2.8	83	8	7	2†	42	3.28	+0.38	1.20	T.	5	18	4	9	sw.	Jesse A. Mann
Lamonte	Pettis	867	24	47.4	+ 3.7	79	22†	− 1	2	43	3.67	+1.07	1.79	2.0	7	17	7	7	sw.	J. E. Wheeler
Marshall	Saline	779	36	47.2[a]	+ 4.7	79	23	4	2	41	2.14	−0.57	1.04	1.0	6	15	9	7	sw.	Dr. W. H. Black
Nevada	Vernon	862	32	48.9	+ 4.6	78	8	1	2	40	1.30	−1.69	1.25	0.5	2	26	3	2	s.	George A. Kaupp
Warrensburg	Johnson	878	38	48.8	+ 5.2	78	7	1	2	37	2.57	+0.03	1.35	1.5	6	13[a]	12[a]	5[a]	sw.	L. B. Johnston
Warsaw	Benton	687	25	50.3	+ 3.4	79	6	2	2	44	4.07	+0.84	1.50	1.0	5	13	11	7	e.	Everett Martin
Section means and	extremes	.....	..	48.6	+ 4.5	83	8	− 5	2	56	2.76	−0.05	1.79	1.4	5	16	9	6	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	35	45.6	+ 3.4	78	7	2	2	35	1.48	−1.57	0.75	0.4	4	14	12	5	sw.	F. G. Ashbaugh
Bethany	Harrison	916	33	45.2[g]	+ 5.2	77	31	..	..	41	1.52	−0.78	1.30	0.1	6	16[g]	3[g]	4[g]	sw.	Owen Ross
Chillicothe	Livingston	779	16	42.8	+ 1.2	78	23	2	2	45	0.99	−1.79	0.57	0.3	6	18	6	7	se.	Wm. J. Olenhouse
Conception	Nodaway	980	36	44.4	+ 4.9	78	23	1	2	40	1.17	−0.58	1.08	T.	3	11	14	6	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	46.4[d]	......	78	23	− 1	2	46	0.72	−2.03	0.39	4.5	5	23[a]	3[a]	4[a]	s.	Fred L. Stiff
Grant City	Worth	1,134	21	44.4	+ 3.1	77	23	2	2	39	2.14	+0.03	1.70	0.5	3	14	16	1	s.	B. F. Locke
Kansas City	Jackson	963	36	46.6	+ 3.9	76	23	7	2	32	1 26	−1.56	0.57	2.2	8	14	13	4	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	42.5	+ 1.3	77	23	1	2	41	1.46	−0.84	1.08	2.0	5	16	7	8	se.	Linn Terry
Lexington	Lafayette	688	40	47.2	+ 4.3	79	7	4	2	35	2.05	−0.32	0.50	1.5	9	14	14	3	s.	Edwin G Loomis
Liberty	Clay	859	35	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	....
Maryville	Nodaway	1,169	35	44.8	+ 7.6	79	23	1	2	41	1.30	−0.58	1.07	0	3	26	0	5	nw.	J. R. Brink
Oregon	Holt	1,048	69	44.6	+ 5.3	78	23	12	2	36	1.07	−0.95	0.99	T.	2	18	7	6	nw.	Tom Curry
St. Joseph	Buchanan	967	17	45.4	+ 3.2	78	23	6	2	38	1.46	−1.03	1.07	0.4	6	16	11	4	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	22	42.9	+ 2.3	81	23	2	2	43	1.64	−0.06	1.38	0.5	3	11	11	9	nw.	Albert Volker
Trenton	Grundy	822	29	43.3	+ 2.1	71	23	5	2	33	1.39	−1.05	0.95	0.5	5	21	7	3	s.	W. H. Estes
Section means and	extremes	.....	..	44.7	+ 3.7	81	23	− 1	2	46	1.40	−0.94	1.70	0.9	5	17	9	5	s	
State means and	extremes	.....	..	47.7	+ 3.9	86	9	− 5	2	62	1.95	−1.05	2.55	0.8	5	17	8	6	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b], represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

DESTRUCTIVE TORNADO OF SOUTHEAST MISSOURI MARCH 18, 1925

One of the most destructive tornadoes of recent years occurred in Southeast Missouri the afternoon of March 18, 1925. Comfortable homes, and barns were blown down, many being practically "reduced to kindling wood"; numbers of live stock were killed, and valuable forests laid waste. Fortunately, perhaps, one-half or more of the country the storm traveled is sparsely settled. A total of eleven persons was killed, upwards of 150 injured, many seriously, while the property loss will exceed $500,000.

A few minutes before 1 p. m. of March 18, Mr. W. F. Haywood, postmaster at Ellington, Reynolds County, observed a blue-black cloud mass several miles to north-northwest of his home. To Mr. Haywood, the premonitions of an unusual storm—an incipient tornado—were clearly evident. Becoming alarmed, he started for the local school house for his children, but he soon noticed that the storm had started east, away from the school house; at the same time the cloud had become partly obscured by a fog or mist. A little later one of the rural carriers of his office came in, reporting that he had barely missed the storm by taking the proper precaution, and had seen the storm go east, crossing Logan's Creek and dry valley, about four miles north of Ellington, as "a twister." A few minutes after 1 p. m., it was seen by Mr. Obia Neel, as it swept east and one and one-half miles south of Redford, a settlement in Reynolds County, and about seven miles east-northeast from the point of origin. Mr. Neel reports that the cloud was funnel-shaped, with rotary winds, throwing objects in every direction. From Logan's Creek to south of Redford, the storm's track averaged about one-fourth mile wide. One person was killed, two injured, and property was destroyed to the amount of about $5,000.

What the storm did between Redford, Reynolds County, and Annapolis, Iron County, is not known. It struck the village of Annapolis and its immediate vicinity with terrible force at 1:15 p. m. It nearly swept that village from the earth. The confusion and terror was reported as indescribable. The damage there is estimated to be fully $400,000; but, remarkable as it may seem, only two persons were killed, and 25 seriously injured.

From Annapolis the tornado advanced east-northeast. For nearly 40 miles of its track, from Annapolis, Iron County, across Madison County and into Bollinger County, there were no eye-witnesses, except we know that the storm past near and south of the little settlement of Cornwall, in the northeast angle of Madison County, and on the St. L. I. M. & S. R. R., at about 1:30 p. m., causing damage to the amount of $1,000, but neither killing nor injuring any persons. The next place struck was at or near the Crossroads, Bollinger County—a place where Highways No. 9 and No. 51 cross—about 5 miles south of the north boundary line of Bollinger County. From there onward the storm passed through a well-settled, prosperous farming section, the damage being continuous on about eight farms contiguous to the settlements of Crossroads, Sedgewickville, Alliance, Schuemer Springs, and Lixville, in Bollinger County. In this strip of country four persons were killed, 91 injured, and property damaged to about $45,000. The tornado crossed over into Perry County, reaching the village of Biehle at about 2 p. m., making the distance of 50 miles, from Annapolis to Biehle, in 45 minutes. There is evidence of a double track just after entering Perry County, about one-half mile west of Biehle, the two tracks continuing, in diminished intensity, for about three miles, and then again as one track, with increased energy. From Biehle the storm swept, retaining its rotary movement, 30 farms or more, contigous to the settlements of Biehle, Uniontown, Brazeau, Frohna, Altenburg, and Wittenberg. In this strip of country, about 20 miles long, 4 persons were killed, 38 seriously injured, and property damaged to the extent of $113,000. The storm crossed the Mississippi River about three miles north of Wittenberg, at 2:30 p. m. A representative of the Perry County Sun, Perryville, Perry County, followed over the storm's path in Bollinger and most of Perry County. He says he "felt incapable of giving a true description of the devastation and ruins." "Persons stand and gaze at the ruins in wonder and astonishment—wonder how it is possible that entire families escaped without apparent injury, and astonished how entire families covered up under the wreckage were not killed."

From the point of apparent origin, near Ellington, Reynolds County, to the point where it crossed the Mississippi River, the storm traveled, sweeping the earth as a whirling mass most of way, (and probably all of the way), 85 miles, within the time of 90 minutes. This rate of travel is no doubt correct, as it may be noted that where ever the cloud was seen and time recorded, the rate of progress was about the same. The path of greatest destruction varied somewhat, but averaged about one-fourth mile wide. There does not seem to be any doubt about the storm being a true tornado.

We wish to here thank our cooperative observers and the postmasters of Southeast Missouri, and also the Perry County Sun, Perryville, Mo., for splendid cooperation in making it possible to follow the path of this storm.

Recapitulation.

	Persons killed	Persons injured	Property loss
Reynolds County—			
Ellington (near)	1	2	------
Redford (near)	0	0	$5,000
Iron County—			
Annapolis and vicinity	2	25	$400,000
Madison County—			
Cornwall (near)	0	0	$1,000
Bollinger County—			
Crossroads, Sedgewickville, Lixville, Schuemer Springs, and adjacent rural districts, 8 or 10 farms	4	91	$45,000
Perry County—			
Biehle, Uniontown, Brazeau, Frohna, Altenburg, and Wittenberg, and adjacent rural districts, 30 farms	4	38	$113,000
Totals	11	156	$564,000

Written for the Climatological Data, March 1925, based on all available data to April 10, by George Reeder, Section Director for Missouri.

Daily Precipitation for March, 1925.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri		.06			.16								.12	1.17			.25	.33	1.20							T.						3.29
Brunswick‖	Grand	.05	.02			.06								.50	.23			.03	.13	.34													1.36
Clifton Hill	Chariton	.10								.15		T.		.10		03		.03	,60														1.01
Columbia***	Missouri	.04			.05					.01			.05	.75	.03		.10	T.	1.57						T.		.03						2.63
Downing	Mississippi	T.			.06	.01				.04				1.26	.06				.74	.03													2.20
Fayette‖‖	Missouri	.14			T.								.48	.58			.16		.48	.89													2.73
Fulton	....do																																....
Gorin	Mississippi	T.			.07									1.15					.49														1.71
Hannibal***	....do	T.			T.					T.		T.	.07	.89	.06			.01	1.05			.01			T.								2.09
Hermann‖	Missouri	.02	.01											.11	.70			.08	.10	1.32													2.34
Jefferson City‖	....do	.12	.02			.12								.10	.72			.05	.65	.66													2.44
Kirksville	Mississippi	T.			.08					.02				1.02					.41														1.53
Louisiana	....do	.12			T.						.12	T.		1.10	.65			.60	2.55							.02							5.16
Macon ‖	Chariton	.09	.03								.06		T.	.64	.36			.07	.24	.35													1.84
Mexico ‖	Mississippi	.10	.10											.18	.45				.44	.96													2.23
Milan ‖	Grand		.25			.10				.07				.70	.15			T.	.30	.10													1.67
Pacific‖	Meramec	.12	.02			T.						T.		.25	.70			.03	.06	.95						.68							2.81
St. Catharine	Grand	.02								.04		T.		.79			T.		.35	T.							T.						1.20
St Charles	Missouri													2.40					1.38								T.						3.78
St Louis (1)***	Mississippi	T.	T.		T.					T.	.04	T.	.03	.56	T.				.41						.05	.38	.03						1.50
St. Louis (2)	....do	.02			.01						.03	T.	T.	.80					.47						.02	.38	.03						1.76
Shelbina ‖‖	....do	.12				.03								.64	.65	.08			.05	.70													2.27
Steffenville	....do	.14			T.					T.		T.		.60	T.				.75														1.49
Union‖‖	Meramec	.10	.03			.01								.31	1.05				.13	1.07						.33							3.03
Unionville	Chariton	T.			T.					T.				1.30					.55														1.85
Valley Park‖‖	Meramec	.17	T.									.05		.34	.57	T.		T.	.11	.57						.15							1.96
Warrenton	Mississippi	.02	.02		T.									.95					1.25	.06							T.						2.30
Keokuk, Ia.***	....do	.02			.02					T.			.02	.52	T.			.25	.12						T.								0.95
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi	.14	.02									1.10	.09		.82			T.	.09	.04						.10	.03	.07					2.50
Caruthersville	....do																																....
Doniphan	Black	.39	T.		T.							.79		.80					1.04								.09						3.11
Jackson	Mississippi		.12									.99			.84				.24							.11	T.						2.30
Marble Hill	Mississippi		.12									1.68			.82				.30							.25							3.17
New Madrid‖	....do	.10	.10									.30	.10	.10	.75			.01	1.20	.15							.10	.71					3.62
Parma	St. Francis											.50			.85				1.02									.38					2.75
Patton (near)	Mississippi										.45			.15	.77				.55														1.92
Poplar Bluff	Black										.35	.28	T.	.90				.23							.16		T.						1.92
Vanduser	Mississippi				.05							.95		.04	.71				.61							.08	.08						2.52
Cairo, Ill.***	....do	.09	.07		T.						.05	.33	T.	.61			T.		.51							.11	.42						2.19
Ozark Plateau.																																	
Annapolis‖	St. Francis																																....
Arcadia ‖	....do	.63	.01			T.					T.	T.	.06		.38					.40							T.	.11					1.59
Birchtree	Black	.12									.23			.77						.36													1.48
Bolivar	Osage		.19											.98					1.98								.03						3.18
Dean	Neosho									T.				.15													.13						0.28
De Soto‖‖	Mississippi		T.			T.						T.			.01				.93							.28	T.						1.22
Eldon	Missouri																		1.44														1.44
Farmington	St. Francis	.15	.25								.02	.02		.04	.26				.26							.05	.43						1,48
Fredericktown‖‖	.... do		.40	.51							.04	.45	.27			.06				.65				.09		.07					.03		2.57
Galena‖‖	White																										.10						0.10
Gano	Meramec	.10	.14		.07							T.		.26					.53							T.	.05						1.15
Goodland	Black	.15										.05			.20				.33								.57						1.30
Greenville	St. Francis											1.57		.01	1.09				.15								.04						2.86
Hollister	White		T.											T.													.45						0.45
Jerome ‖	Gasconade		.01		T.	.38								.30	.60				.75	.40								.12					2.56
Koshkonong	Black	.07	.05								.15	.17		.61					.05									.10					1.20
Lebanon ‖	Osage		.12											.13	.30				.55	.95						.02							2.07
Lockwood	....do									T.				.83					1.59										T.				2.42
Mountain Grove‖	White	.11	.02			T.					T.	.09		.03	.03				.40	.18							.01						0.87
Neosho	Neosho	.05								T.				1.34					.30								.10			T.		T	1.79
Rolla	Meramec	.09			.11								T.	.47					1.30						T.		.15						2.12
Seligman	Neosho		.10											T.													.60						0.70
Seymour (near)	White	T.	.07		T.									.14					.60								T.						0.81
Springfield***	....do	.16			T.					T.		T.	T.	.05	T.				.74								.12		T.				1 07
Steelville‖	Meramec	.08	.14			.05						.07	.05	.02	.15				.15	.66						.13		.10					1.60
Tuscumbia ‖	Osage	.15	.03			.25					T.			T.	.75			T.	.56	.81							.02						2.57
Willow Sprgs.‖‖ (near)	White	.23		.02								.12		.02	.05				.28	.30							.03						1.05
Southwest Plain.																																	
Amoret	Osage	.20												.53					1.00	1.00							.01						2.74
Appleton City	....do	.18	T.		T.					T.		T.		1.13					1.23								.03						2.57
Clinton	....do	.18		.13	.05									1.00					1.55								.10						3.01
Harrisonville‖	....do		.30		.08									.43	.34				.67	.40													2.22
Joplin*	Neosho	T.											.21	.54					.70							T.							1.45
Lamar ‖	....do	T.	T.											.45	1.20				.80	.77							.06			T.			3.28
Lamonte	Missouri	.10	.05		.40					.10				1.20				.03	1.79														3.67
Marshall	.... do	.05			.07									.67	T.			.28	1.04								.03						2.14
Nevada	Osage		.05	T.															1.25														1.30
Osceola‖‖	....do		.12											.40	.50				.80	.68							.20						2.70
Warrensburg	Missouri	.15			.39					T.		T.		.60				.01	1.35								.07						2.57
Warsaw	Osage	.10	1.50											.92					1.36								.19						4.07
Waverly ‖	Missouri	.02	.03		T.	.22					T.		T.	.40	.30			.02	.39	.32							T.						1.70
Northwest Plateau.																																	
Albany‖‖	Grand					T.	T.							1.00					T.		.12												1.12
Avalon	....do	.02								.01				.70					.75														1.48
Bethany	....do	.01	.02											1.30	.03			.12	.04														1.52
Chillicothe‖‖	....do	.01	.02											.57	.10			T.	.15	.14													0.99
Conception	Missouri	T.			.06	T.				T.				1.08			T.	T.	.03														1.17
Edgerton	....do	.14		T.	.13									.05			T.	.01	.39														0.72
Gallatin ‖	Grand		T.			.12								.93	.06			T.	.21	.07													1.39
Grant City	.... do	.05												1 70					.39						T.								2.14
Kansas City***	Missouri	,08			.29					T.		.06	.07	.17	T.			.05	.52						T.		.02						1,26
Kidder ‖	Grand				.16									1.08	.02				.17	.03													1.46
Lexington ‖	Missouri		.08				.25						.07	.50	.40			.14	.44	.15							.02						2.05
Liberty	....do																																....
Maryville	....do				.10									1 07					.13														1.30
Oregon	....do				.08								.99	T.				T.											T.				1.07
St. Joseph***	....do	.04			.12					T.			.26	.81	T.		T.	.06	.17					T.					T.			T.	1.46
Tarkio	....do	.02			T.									1.38					.24														1.64
Trenton	Grand	.04			T.					T.				.95			.05	.30	.05														1.39

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch.

*** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for March, 1925.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	33	27	50	45	63	76	79	48	70	54	48	50	45	36	51	62	51	42	56	71	61	65	79	71	77	70	58	66	69	63	69	58.2
	Minimum	19	6	6	22	29	32	41	33	34	43	30	21	30	25	18	31	32	35	32	31	35	36	44	46	33	35	38	28	33	31	37	30.5
Columbia	Maximum	32	24	49	40	60	78	77	52	76	62	40	60	61	40	48	61	67	54	55	70	63	64	78	76	72	74	54	63	64	57	64	59.2
	Minimum	12	4	19	30	29	46	52	36	42	35	29	29	40	26	20	33	39	38	35	33	40	41	45	48	41	48	37	30	43	36	41	34.7
Fayette	Maximum	32	31	50	40	76	76	..	52	72	57	61	..	51	36	50	63	65	47	56	72	64	66	79	72	75	72	57	64	69	62	69	^{b}59.9
	Minimum	16	3	10	30	26	35	..	34	37	49	28	..	24	24	18	29	33	35	33	28	35	37	40	53	35	35	37	25	25	33	35	^{b}30.4
Hannibal	Maximum	31	23	48	42	56	74	77	49	76	63	41	57	46	38	44	56	63	52	53	67	58	59	77	71	73	73	53	62	59	58	63	56.8
	Minimum	9	4	16	33	31	39	49	34	38	36	29	28	38	25	20	33	38	35	32	36	37	39	48	46	36	45	38	32	36	37	40	33.5
Jefferson City §§	Maximum	36	34	55	42	62	67	81	60	80	65	47	62	62	33	49	61	72	48	58	70	59	66	62	80	76	80	57	67	59	59	67	60.5
	Minimum	19	5	12	32	30	40	56	40	41	55	31	25	40	27	20	32	38	42	37	33	42	43	41	53	44	46	40	31	35	44	38	35.9
Kirksville	Maximum	32	26	48	43	57	70	74	68	69	61	46	58	50	39	39	60	60	53	53	66	64	60	75	68	73	65	55	65	63	58	62	57.4
	Minimum	14	11	16	29	27	32	44	30	34	38	26	27	35	21	16	30	34	32	27	33	30	31	40	50	34	43	36	30	35	31	34	30.6
Louisiana	Maximum	38	33	45	50	51	65	75	74	72	76	55	50	48	48	45	45	64	62	65	63	68	60	75	75	76	77	58	65	64	64	65	60.5
	Minimum	18	6	14	30	28	38	46	35	38	46	29	22	38	28	17	24	28	30	28	32	40	35	41	55	56	35	40	28	27	27	37	32.2
Macon §§	Maximum	31	27	48	45	60	74	76	45	73	55	47	60	42	35	46	60	63	45	56	63	71	74	77	68	75	67	55	61	67	61	67	57.9
	Minimum	14	-1	0	25	29	33	37	41	37	40	27	27	28	23	17	30	35	39	31	34	35	36	52	58	37	45	36	29	31	30	36	31.8
Mexico §§	Maximum	35	23	51	46	60	79	80	47	86	69	44	61	54	39	47	62	68	55	56	69	58	63	79	72	75	77	56	66	64	58	64	60.1
	Minimum	17	0	5	23	29	31	46	35	36	46	29	25	31	26	20	25	35	39	35	33	37	39	43	47	37	47	39	30	35	34	37	32.0
St. Catharine	Maximum	35	25	49	46	56	70	74	69	62	62	45	57	54	41	43	57	59	54	59	67	67	61	74	70	70	65	56	63	66	58	61	58.0
	Minimum	15	-1	17	31	28	38	53	30	37	39	26	26	36	23	16	29	32	36	30	29	32	36	43	51	35	45	36	26	39	31	38	31.7
St. Louis(1)	Maximum	34	25	53	49	55	74	79	65	80	75	41	57	57	52	45	54	63	51	55	65	59	60	73	81	68	76	54	62	58	57	62	59.3
	Minimum	17	7	19	37	35	39	52	43	43	41	32	30	45	29	26	32	43	38	37	37	47	41	45	54	50	52	43	39	43	35	40	37.9
Unionville	Maximum	34	30	48	46	60	66	74	57	66	61	46	56	53	36	44	58	60	55	50	67	65	63	75	70	78	76	54	64	64	62	66	58.2
	Minimum	12	1	10	30	26	36	38	30	36	33	22	25	33	20	14	30	32	34	28	30	30	30	40	44	32	40	35	28	30	30	34	28.8
Warrenton	Maximum	31	29	54	47	58	78	81	79	80	75	53	59	57	55	46	57	68	66	54	67	66	63	77	80	73	79	65	65	62	58	63	62.7
	Minimum	18	0	13	32	32	42	51	38	38	52	30	25	43	26	20	27	37	41	34	31	42	39	44	55	43	50	39	34	42	34	35	35.2
Southeast Lowlands.																																	
Caruthersville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Doniphan	Maximum	46	44	48	51	56	73	78	81	76	79	69	59	75	63	47	52	63	75	62	68	70	67	77	79	81	77	71	64	69	67	69	66.3
	Minimum	20	12	16	27	23	29	49	46	52	59	34	29	48	32	24	25	42	51	40	31	44	42	39	41	56	58	44	28	40	36	33	37.1
Jackson	Maximum	42	40	46	51	55	71	81	83	80	79	77	61	78	74	47	49	60	75	59	66	67	68	76	80	82	76	79	66	67	61	68	66.6
	Minimum	31	7	17	17	27	35	48	48	40	57	33	27	42	30	21	26	41	49	39	27	47	38	37	44	53	56	42	28	41	35	33	36.0
Poplar Bluff	Maximum	50	44	50	52	60	75	80	81	79	79	70	64	77	67	50	50	62	78	65	70	76	70	80	81	81	75	63	67	74	61	74	68.1
	Minimum	13	17	27	26	28	36	36	43	60	36	28	42	39	23	25	43	47	43	31	44	41	39	40	52	60	41	28	38	36	35	34	36.6
Cairo, Ill.	Maximum	40	29	45	49	53	69	78	81	77	75	50	59	76	64	45	46	60	75	57	63	65	65	74	77	78	73	58	61	62	56	63	62.0
	Minimum	29	11	20	35	35	39	52	56	56	50	35	33	50	31	29	35	43	44	42	42	51	44	46	57	56	55	44	40	45	39	44	41 5
Ozark Plateau.																																	
Arcadia §§	Maximum	40	28	48	45	56	69	76	77	75	74	37	56	69	31	44	50	61	60	57	63	67	62	73	75	77	71	54	64	65	59	66	59.6
	Minimum	18	5	5	18	26	26	39	46	38	40	33	20	23	31	12	23	32	42	37	21	29	36	35	41	49	50	40	25	32	31	31	30.3
Birchtree	Maximum	38	38	51	46	58	71	79	82	75	80	60	60	71	58	44	51	57	67	60	62	69	70	68	65	71	80	80	79	68	64	70	64.3
	Minimum	30	7	7	31	24	41	53	51	55	49	34	37	50	30	19	19	20	38	45	39	34	45	45	43	40	49	50	40	32	32	40	36.4
Eldon	Maximum	..	..	..	..	..	..	..	..	..	..	54	65	66	62	62	62	76	54	56	72	72	69	79	79	71	80	55	69	69	80	70	^{j}67.7
	Minimum	..	..	..	..	..	..	..	..	..	..	31	28	45	26	19	30	32	36	35	38	42	45	45	53	41	49	40	30	44	34	40	^{j}37.3
Farmington	Maximum	38	35	52	46	60	74	80	75	79	78	56	63	72	63	51	58	68	56	62	68	63	70	74	76	67	78	53	66	62	62	68	63.6
	Minimum	25	4	15	34	31	38	47	51	41	55	32	23	40	28	19	27	40	42	38	27	38	38	40	47	48	52	40	32	42	32	38	35.6
Hollister	Maximum	58	56	60	60	62	60	82	88	80	81	62	62	60	55	54	62	60	72	65	64	66	68	80	82	82	83	80	68	64	66	74	68.3
	Minimum	15	9	15	15	18	20	22	26	42	50	36	34	32	22	14	22	20	28	40	38	40	42	30	32	38	54	50	25	26	22	30	29.3
Koshkonong	Maximum	46	41	52	51	60	76	79	84	80	79	61	65	73	59	48	52	64	75	63	71	69	71	78	79	80	76	73	65	71	63	70	66.9
	Minimum	32	10	17	35	30	40	53	54	66	57	36	28	48	32	22	29	39	46	40	39	48	44	45	53	52	57	41	39	47	39	40	40.6
Lebanon §§	Maximum	39	25	51	41	61	78	80	79	75	74	47	64	70	30	57	59	70	53	57	71	61	72	77	75	76	55	65	68	62	71	71	62.6
	Minimum	23	0	0	21	21	27	45	43	48	54	31	23	30	25	19	19	31	39	34	32	42	39	43	49	41	36	29	34	32	35	43	32.1
Mountain Grove §§	Maximum	41	26	53	50	59	77	79	82	73	76	56	59	66	52	48	54	64	62	59	69	69	69	75	78	77	75	56	62	69	64	69	63.5
	Minimum	24	4	4	23	27	27	43	45	53	53	33	26	30	28	19	22	31	40	36	36	38	40	45	46	45	45	36	30	33	31	33	33.1
Neosho	Maximum	48	54	55	59	70	77	77	81	79	71	65	65	73	72	53	62	71	70	61	73	72	76	83	79	78	76	68	60	68	68	70	69.0
	Minimum	23	9	23	25	30	52	59	47	55	58	35	24	53	25	19	29	37	41	31	35	42	38	39	51	41	52	37	27	59	31	45	37.9
Rolla	Maximum	34	31	55	51	60	77	81	78	78	76	51	63	67	61	51	57	70	52	56	70	66	69	77	80	76	76	64	65	69	63	70	61.5
	Minimum	22	3	17	33	30	45	56	48	47	53	32	23	52	29	20	31	40	43	36	32	49	42	47	47	49	51	38	34	47	37	37	37.8
Springfield	Maximum	39	23	52	52	63	76	76	82	70	73	46	59	71	42	47	57	67	52	56	70	62	69	75	76	72	73	54	55	65	62	68	61.4
	Minimum	17	4	19	36	35	46	56	57	57	40	33	31	42	24	22	32	37	38	37	40	50	44	49	55	48	49	38	37	47	40	43	38.8
Southwest Plain.																																	
Amoret	Maximum	40	31	56	57	68	77	80	67	70	66	53	63	68	66	50	62	64	58	57	72	65	72	75	74	74	66	80	68	68	69	70	64.7
	Minimum	20	-5	23	26	28	40	56	37	42	42	30	22	42	23	15	32	27	38	27	32	42	39	42	35	38	47	35	25	38	30	38	32.5
Appleton City	Maximum	38	27	53	52	67	77	78	70	67	65	49	61	68	62	49	63	65	61	58	68	64	73	75	74	73	72	60	59	68	63	67	62.9
	Minimum	21	-2	20	33	31	47	54	40	47	49	31	28	44	25	21	32	34	40	31	37	41	43	46	54	41	55	37	31	44	35	41	36.6
Clinton	Maximum	39	29	52	55	68	78	80	71	70	70	65	68	70	60	53	65	67	67	68	70	65	73	79	70	77	74	63	62	72	66	74	65.8
	Minimum	21	3	12	32	28	48	57	38	41	50	20	26	42	23	20	30	32	40	30	35	40	42	46	53	40	52	35	30	52	35	40	35.4
Harrisonville §§	Maximum	35	27	54	52	64	75	70	56	70	55	45	62	57	38	49	63	61	41	58	71	56	66	76	72	76	66	61	67	67	62	66	59.4
	Minimum	19	-3	-2	26	33	33	45	35	37	44	28	27	29	22	19	31	31	33	29	29	35	37	42	44	39	41	35	37	38	33	37	31.1
Lamar §§	Maximum	45	29	52	57	69	78	77	83	70	55	68	61	70	38	51	62	71	48	61	70	60	72	77	78	73	73	59	57	68	65	71	63.6
	Minimum	21	7	7	27	30	36	51	42	41	51	28	33	31	25	22	24	31	38	32	33	44	43	45	48	41	42	36	31	36	37	37	34.3
Lamonte	Maximum	36	28	51	48	67	77	78	55	61	61	60	52	50	45	40	54	57	55	56	70	70	79	74	75	79	69	56	68	68	68	69	60.5
	Minimum	18	-1	14	31	28	47	54	35	40	40	29	25	41	23	19	32	31	36	29	31	37	45	49	49	36	47	34	29	45	50	38	31.3
Marshall	Maximum	34	28	51	45	64	78	78	60	69	61	41	61	51	51	50	65	65	61	56	65	65	65	79	73	77	69	57	67	69	65	68	61 3
	Minimum	18	4	15	32	28	41	53	34	44	44	29	24	..	23	18	29	31	39	29	30	31	34	40	55	37	45	36	26	41	34	37	^{a}33.0
Nevada	Maximum	33	29	40	49	70	76	72	78	72	66	49	66	63	61	50	60	60	55	65	71	70	63	77	67	66	66	60	60	67	63	67	61.8
	Minimum	20	1	21	21	36	47	40	57	54	47	31	29	46	24	21	33	36	39	39	40	40	40	37	44	50	41	35	32	44	32	40	36.0
Warrensburg	Maximum	37	28	35	55	67	76	78	71	68	68	47	63	61	50	50	63	64	58	56	69	66	68	71	72	74	70	57	59	70	63	70	61.4
	Minimum	17	1	15	30	32	48	57	51	52	45	29	28	41	23	20	31	31	38	30	38	38	41	50	54	37	51	35	35	44	35	40	36.2
Warsaw	Maximum	36	29	52	50	65	79	78	73	72	67	58	65	70	67	49	62	69	63	56	71	67	74	77	72	76	73	57	63	69	64	71	64.3
	Minimum	22	2	18	27	21	51	60	40	46	49	32	23	46	25	19	33	39	40	30	31	43	43	51	48	58	40	39	29	43	32	44	36.3
Northwest Plateau.																																	
Chillicothe §§	Maximum	32	28	48	47	63	74	75	50	66	50	46	59	42	33	47	60	59	44	53	70	57	64	78	62	75	68	55	64	67	68	68	57.2
	Minimum	16	2	3	26	29	31	39	30	31	37	28	28	28	21	18	27	29	30	31	31	31	33	42	45	30	34	31	25	26	31	34	28.3
Grant City	Maximum	35	27	53	55	63	66	67	57	69	61	46	56	53	35	48	47	54	53	54	68	68	61	77	72	73	73	57	62	68	62	66	58.4
	Minimum	12	2	19	21	31	39	47	33	36	32	28	25	39	15	16	25	30	34	28	34	29	34	44	42	36	42	33	28	39	32	38	30.3
Kansas City	Maximum	32	24	51	53	67	75	71	47	70	60	44	59	41	32	50	60	61	46	51	73	56	68	76	65	71	62	57	58	67	60	68	57.6
	Minimum	11	7	21	35	36	49	45	32	43	32	25	32	28	19	23	36	38	36	31	41	36	42	52	49	43	47	38	41	47	39	46	35.7
Kidder §§	Maximum	30	26	48	50	64	72	70	49	69	48	47	57	41	33	48	58	56	41	51	72	59	63	77	59	75	62	56	62	67	61	67	56.2
	Minimum	16	1	3	25	30	32	38	30	30	36	27	27	29	20	18	26	29	31	29	31	29	32	41	41	35	38	34	30	36	30	35	28.8
Lexington §§	Maximum	35	28	51	51	64	76	79	58	68	64	46	59	55	44	48	61	63	55	56	69	63	64	75	71	78	66	59	66	68	62	68	60.3
	Minimum	19	4	17	33	31	41	55	33	40	41	28	26	40	23	19	31	31	43	30	34	35	38	45	55	34	47	36	32	41	32	38	34.0
Maryville	Maximum	32	30	53	55	67	66	60	52	72	65	47	59	52	38	51	54	55	48	51	72	60	64	79	70	76	59	57	64	67	60	60	58.0
	Minimum	13	1	19	32	30	40	48	34	40	32	25	28	33	14	17	33	30	34	29	36	29	36	44	43	35	46	33	35	44	32	32	31.5
Oregon	Maximum	34	25	52	51	64	69	58	47	71	63	53	53	47	36	51	53	55	49	51	72	65	63	78	67	72	62	56	60	57	66	68	57.0
	Minimum	13	12	20	32	34	42	36	38	41	34	36	30	34	14	18	34	31	33	29	36	29	36	50	42	38	30	30	36	35	33	42	32.2
St. Joseph	Maximum	30	27	52	52	67	73	65	49	71	53	45	58	43	30	51	56	56	46	53	72	57	66	78	65	76	60	58	61	69	62	68	57.1
	Minimum	9	6	23	33	35	46	38	33	42	32	29	23	27	16	22	36	32	34	31	39	32	40	51	42	38	45	37	36	46	37	44	33.7
Trenton	Maximum	33	24	47	45	56	61	68	55	67	59	41	54	19	36	43	54	55	50	51	58	58	58	71	62	69	60	52	60	62	57	62	54.2
	Minimum	17	5	20	34	31	32	50	31	38	34	28	30	35	20	21	30	31	35	31	30	32	36	42	46	36	46	40	29	43	32	40	32.4

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a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 5-4-25—845.

UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXIX. COLUMBIA, MO., APRIL, 1925. No. 4.

GENERAL SUMMARY.

April, 1925, in Missouri, was warm. Only two Aprils in the past 35 years or more were warmer. On the morning of the 5th and again on the 30th, minimum temperatures were around 32° at a number of stations in central and northern sections, but there was no real freeze at any time. As a whole, the month had above normal temperatures in all parts of the State, the excesses being quite uniform and rather large, averaging around 6° a day. Much of the month had warmth approximating the usual for the first part of June.

The frost of the 30th was general, save in the extreme Southeast. It was not killing by any means, but nipped and set back the more tender vegetation, which was unusually well advanced.

The rainfall was somewhat greater over the western and central sections than over the eastern sections. It was not too heavy in the first two, and was about enough for needs in last named part; altogether, the distribution and frequency were satisfactory. There were some thunderstorms with squalls and hail.

The month was very favorable for the usual spring farm work, and grains. It was good for ranges and stock; for highway and other outdoor building interests, as well as the general lines of trade.

TEMPERATURE.

The monthly mean temperature for the State, 64 stations reporting, was 61.0°, or 5.9° higher than the 36-year normal. Only two Aprils since 1888 were warmer. The temperature distribution was uniform, all sections showing about the same plus departures. Until the last few days, the prevailing warmth was comparable with that of early summer, especially from about the 10th to the 26th of the month. The last two days were abnormally cool, with light frost generally, save in the extreme Southeast. Just before the reaction to cool weather, afternoon temperatures ranged from 85 degrees to 92 degrees.

PRECIPITATION.

The average precipitation for the State, 94 stations reporting, was 4.11 inches, or about 0.38 inch more than the 56 years' average. The month was wetter than normal in the western half of the State, and dryer than normal in the eastern half, and especially the east-third, from the Missouri River south. Showers fell with the usual April frequency, but there were no excessive downpours. The greatest local monthly fall was 8.14 inches, at Milan, and the least was 0.67 inch, at Maryville. The greatest amount in any 24 consecutive hours was 3.51 inches, at Seligman on the 25th.

WIND.

The prevailing winds were from the southeast. The total movement, 8 stations equipped with anemometers reporting, was 7,615 miles, 10.6 miles an hour and about 9 per cent above the average. There were no heavily damaging storms, but brisk to strong winds occurred on the 13th, 14th, 19th, 20th, 21st, 23d, 25th, 29th, and 30th.

SUNSHINE AND CLOUDINESS.

There were 12 clear days. The average number of hours of sunshine, 6 well placed stations reporting, was 255. This is about 64 per cent of the possible and about 5 per cent more than normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---At Hannibal on the 18th.

Frost, light.---1st, 5th, 6th, 28th, 29th, and 30th.

Hail.---At St. Louis and Fayette and the 13th; Warsaw 14th; Downing 19th and 21st; Brunswick 21st, and 25th; Louisiana, St. Catharine, and Tarkio, on the 21st. No damage reported.

Halos, solar.---2d, 4th, 6th, 8th, 16th, 17th, 18th, 19th, 21st, 22d, 23d, 25th, 26th, and 28th.

Halos, lunar.---1st, 2d, 3d, and 8th.

Thunderstorms.---2d, 3d, 7th, 8th, 12th, 14th, 15th, 17th, 18th, 19th, 20th, 21st, 23d, 25th, 26th, and 27th. General on the 9th, 13th, 16th, and 24th.

SPECIAL STORM NOTES.

April 7.—During a heavy thunder and rain storm, Joseph Reardon, a farmer, near Clarksdale, Dekalb County, was killed by lightning at about 5 p. m. Roads were made nearly impassable by the heavy rain but no other damage was done.

April 8.—Rather a severe hail storm occurred at and in the vicinity of Republic, Greene County, at about 7:15 p. m. The storm came from the west-southwest. Stones were as large as peas to marbles; the path was about one-half mile wide. Damage was considerable, mostly to orchards. Loss about $5,000.

April 20.—An unusually heavy rain and hailstorm occurred in the vicinity of Napier, Holt County, about 8 p. m. Rain and hail fell for about 30 minutes; size of stone from one to [illegible] inches; the path of the storm was about one-half mile wide. Burlington passenger train No. 22 from Omaha, due at St. Joseph at 8:55 p. m. was held up at Napier, by the storm. Windows were broken by hail driven by high wind. Some old roofs were penetrated by hailstones. Gardens and fruits were the principal crops damaged. Estimated loss several thousand dollars.

On the same date and about the same time, a heavy thunderstorm squall struck the southern part of Chillicothe, Livingston County. Roofs of some homes were blown off; silos blown down, and some other minor damage was done. Loss not estimated.

April 24.—During a thunderstorm, in the evening, John Hunt's barn, northeast of Seymour, Webster County, was struck by lightning and burned, with all its contents, including much corn, a team of mules, and some farm machinery. Loss about $2,000.

April 25.—During a severe thunder and rainstorm at and in the vicinity of Perry, Ralls County, John Adkinson, a farmer, was struck and instantly killed by lightning, at about 1:15 p. m. The father, H. A. Atkinson, who was standing near, was knocked down by the same bolt but not killed.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
								Max. velocity.		
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Miles per hour.	Direction.	Date.
Columbia	29.98	75	60	245	62	6,476	9.0	37	w	19
Hannibal	29.99	73	..	...	..	6,830	9.5	32	sw.	24
Kansas City	29.96	78	65	273	69	8,320	11.6	56	nw.	29
St. Joseph	29.95	75	57	253	63	7,144	9.9	43	nw.	29
St. Louis	29.97	69	52	259	65	9,975	13.9	50	ne.	29
Springfield	29 96	72	52	255	65	9,074	12.6	43	nw.	29
Cairo, Ill	29.97	73	47	...	..	7,309	10.2	35	ne.	27
Keokuk, Iowa	29.98	73	53	244	61	5,693	7.9	32	n.	29

COMPARATIVE DATA FOR APRIL.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	57.9	+2.8	91	20	1.83	−1.89	....	....	5	....	....	....
1889	55.7	+0.6	90	26	2.52	−1.20	....	....	8	....	....	....
1890	56.2	+1.1	93	24	3.17	−0.55	....	....	8	....	....	....
1891	56.8	+1.7	93	15	3.90	+0.18	....	....	9	....	....	....
1892	53.1	−2.0	88	26	5.66	+1.94	4.25	....	11	9	8	13
1893	53.9	−1.2	95	19	7.84	+4.12	5.50	....	12	8	9	13
1894	56.1	+1.0	93	20	3 17	−0.55	2.49	T.	8	12	10	8
1895	57.9	+2.8	100	24	1.95	−1.77	2.88	T.	7	14	8	8
1896	61.9	+6.8	92	17	3.51	+0.21	3.00	0.0	9	11	12	7
1897	54 4	−0.7	88	21	4.55	+0.83	3.50	T.	10	10	11	9
1898	52.5	−2.6	90	14	3.65	−0.07	3.25	T.	10	12	9	9
1899	54.0	−1.1	96	6	3.70	−0.02	3.76	3.8	8	12	9	9
1900	56.7	+1.6	89	21	3.36	−0.36	3.82	0.7	9	11	10	9
1901	53.3	−1.8	94	24	2.85	−0.87	2 23	1.8	8	14	7	9
1902	53.9	−1.2	95	19	2.66	−1.06	4.35	T.	11	13	11	6
1903	55.9	+0.8	91	26	3.54	−0.18	4.06	1.2	9	11	10	9
1904	49 0	−6.1	84	19	5.75	+2.03	6.10	2.7	9	15	6	9
1905	54.9	−0.2	92	20	3.19	−0.53	4.00	0.3	6	14	8	8
1906	59.5	+4.1	93	22	2.24	−1.41	2.45	0.0	8	17	7	6
1907	48.7	−6.4	89	16	3.43	−0.29	2.75	T.	8	11	8	11
1908	56.6	+1.5	90	18	5.30	+1.58	3.30	T.	11	11	8	11
1909	54.8	−0.3	93	19	4.35	+0.63	3.80	T.	8	13	9	8
1910	54.8	−0.3	95	21	3.51	−0.21	3.50	0.9	11	12	7	11
1911	53.5	−1.6	89	20	4.99	+1 27	4.27	T.	10	12	8	10
1912	56.0	+0.9	97	24	5.98	+2.26	4.50	0.7	10	13	7	10
1913	56.2	+1.2	94	25	3.33	−0.45	3.90	T.	7	16	5	9
1914	55.2	+0.1	91	18	3.14	−0.74	3.00	T.	8	12	7	11
1915	61.9	+6.5	96	18	2.03	−1.82	2.08	T.	7	16	8	6
1916	53.5	−1.8	93	21	3.23	−0.69	2.35	1.9	10	11	8	11
1917	53.2	−2.3	89	19	5.97	+2.02	4.80	1.2	12	12	6	12
1918	50.8	−4.4	93	19	5.10	+1 24	3.50	0.9	11	12	6	12
1919	55.3	+0.3	94	20	3.01	−0.64	3.25	T.	9	12	7	11
1920	50.2	−4.7	89	4	3.95	+0.15	2.98	4.8	11	11	7	12
1921	56.0	+0.9	91	19	5.37	+1.52	4.20	1.1	10	13	7	10
1922	57.3	+1.9	91	24	6.21	+2.42	5.49	T.	11	13	6	11
1923	54.2	−0.6	91	16	3.12	−0.74	2.50	0.4	8	14	8	8
1924	56.6	+1.5	95	11	2.07	−1.66	2.35	T.	6	14	8	8
1925	61.0	+5.9	92	24	4.11	+0.38	3.51	0.0	10	12	9	9

Climatological Data for April, 1925.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	60.5	+ 6.4	89	21	32	5	40	5.13	+1.65	1.05	0	11	19	0	11	se.	O. K. Benecke
Clifton Hill	Randolph	731	26	58.8	+ 5.3	86	21	29	5	36	2.54	−1.82	1.28	0	11	7	13	10	......	Dr. A. J. Bradsher
Columbia	Boone	748	35	60.8	+ 5.9	89	22	34	5	34	4.38	+0.68	1.47	0	14	10	9	11	e.	U. S. Weather Bureau
Downing	Schuyler	878	4	58.4	......	86	22	24	5	37	6.15	+2.80	1.86	0	10	16	5	9	e.	E. E. St. Clair
Fayette	Howard	661	45	59.1[a]	+ 4.8	89	7†	32	5	54	3.84	+0.30	0.84	0	10	..	..	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	37	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	....
Gorin	Scotland	700	38	....	......	..	..	..	..	..	3.28	−0.72	1.17	0	7	9	11	10	sw.	J. W. Pulliam
Hannibal	Marion	534	33	60.2	+ 6.8	89	22	32	5	32	1.90	−1.35	0.72	0	10	10	9	11	e.	U. S. Weather Bureau
Jefferson City	Cole	557	37	61.4	+ 5.3	90	22	33	5	35	3.20	−0.34	1.10	0	10	18	6	6	s.	Miss Emma Swift
Kirksville	Adair	969	36	57.9[a]	+ 6.2	87	12	25	5	48	2 39	−1.25	1.35	0	5	14[a]	3[a]	12[a]	sw.	Prof. J. S. Stokes
Louisiana	Pike	469	31	60.8	+ 7.2	90	22	32	6	42	2.26	−1.12	0.80	0	10	22	5	3	w.	J. T. Farrell
Macon	Macon	875	26	58.8	+ 5.7	88	22	25	5	40	3.05	−0.14	0.65	0	9	13	11	6	se.	W. C. Brown
Mexico	Audrain	800	36	60.0	+ 6.3	90	22	31	5	41	2.89	−0.78	0.76	0	11	16	0	14	e.	Mrs. Abbie Snoddy
St. Catharine	Linn	800	14	59.2	+ 7.8	83	22	29	5	33	3.87	+0.34	1.29	0	18	11	10	9	ne.	L. D. Baker
St. Charles	St. Charles	456	37	62.2	+ 6.8	92	22	32	5	36	2.89	−0.79	0.88	0	8	11	6	13	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	62.6	+ 6.5	91	22	36	5	31	2.70	−0.82	0.72	0	13	12	9	9	sw.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	62.4	+ 7.2	91	22	37	5	31	2.97	−1.04	0.72	0	14	16	5	9	se.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	..	..	..	2.83	−0.70	0.82	0	11	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	27	59.8	+ 6.9	87	22	27	5	35	3.08	−0.53	0.75	0	10	9	15	6	e.	Frank Hall
Unionville	Putnam	1,062	32	57.8	+ 7.1	84	22	25	5	41	5.21	+1.40	2.20	0	8	9	7	14	n.	Geo. W. Davis
Warrenton	Warren	816	43	62.3	+ 7.8	91	22	32	5	38	2.49	−1.82	1.07	0	7	11	9	10	se.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	59.1	+ 6.8	88	22	29	5	34	3.67	+0.33	1.21	0	9	8	14	8	e.	U. S. Weather Bureau
Section means and	extremes	.....	..	60.1	+ 6.5	92	22	24	5	54	3.36	−0.27	2.20	0	10	13	8	9	e.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	29	....	......	..	..	..	.	..	....	......	....	..	..	..	..	..	......	....
Doniphan	Ripley	344	21	64.1	+ 6.1	87	14†	33	1	36	3.72	−1.65	1.10	0	10	6	18	6	s.	W. W. Martin
Jackson	Cape Girardeau	428	34	64.0	+ 7.1	90	24	32	1†	44	3.38	−1.09	0.80	0	8	3	11	16	s.	John G. Putz
Marble Hill	Bollinger	470	30	64.2	+ 7.5	88	24	35	6†	41	3.39	−1.05	1.10	0	8	7	18	5	n.	R. A. DeWitt
Parma	New Madrid	281	4	....	......	..	..	..	..	..	2.23	......	1.10	0	3	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	16	....	......	..	..	..	..	..	3.57	+0.09	1.12	0	5	..	..	..	.....	George F. Ellis.
Poplar Bluff	Butler	329	21	64.6	+ 5.4	89	14†	33	1†	42	2.68	−1.79	0.91	0	7	20	7	3	s.	J. H. Wolpers
Vanduser	Scott	304	24	....	......	..	..	..	..	..	2.68	−1.58	1.16	0	8	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	50	65.0	+ 6.9	88	24	41	1	32	1.66	−1.91	0.73	0	6	8	14	8	s.	U. S. Weather Bureau
Section means and	extremes	....	..	64.4	+ 6.7	90	24	32	1†	44	2.91	−1,50	1.16	0	7	9	14	7.	s.	
Ozark Plateau.																				
Arcadia	Iron	926	44	59.0	+ 3.7	85	22†	30	2†	40	4.82	+0.20	1.00	0	11	20	2	8	w.	Arcadia College
Birchtree	Shannon	1,000	30	63.4	+ 6.6	87	24	38	29	34	5.89	+1.17	1.58	0	10	17	7	6	e.	V. H. Kirkendall
Bolivar	Polk	1,071	31	62.4	+ 6.3	87	22†	37	29	29	4.27	+0.28	0.93	0	9	17	5	8	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	.....	88	21	..	..	..	4.28	+0.24	1.14	0	14	19	3	8	se.	H. E. Dean
Eldon	Miller	934	29	61.4	+ 6.0	90	21†	33	5	37	3.11	−1.35	0.63	0	10	13	8	9	sw.	E. H. Shepherd
Farmington	St. Francois	918	14	62.2	+ 5.3	90	22	34	5†	44	4.18	+0.22	1.12	0	10	13	10	7	ne.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	62.4	+ 6.8	88	22	35	5†	42	4 29	−0.26	1.16	0	10	12	10	8	ne.	A. C. Leach
Goodland	Iron	1,000	31	61.4	+ 6.8	87	21†	29	6	41	4.25	−0 84	1.10	0	10	13	10	7	s.	F. M. Adams
Greenville	Wayne	381	3	62.6	......	89	19	29	1	41	4.64	......	1.90	0	10	15	8	7	s.	Wm. P. Owens
Hollister	Taney	735	38	62.5	+ 2.8	90	24	35	5	43	6.80	+2.23	2.20	0	6	15	4	11	se.	Mrs. W. P. Chapman
Koshkonong	Oregon	958	24	64.7	+ 6.9	87	24	40	29†	29	3.47	−1.50	1.53	0	9	16	5	9	ne.	R. M. Hitt
Lebanon	Laclede	1,265	37	60.8	+ 5.1	90	22	33	5	35	4.73	+0.55	1.30	0	7	9	12	9	se.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	62.8	+ 6.8	86	22	36	30	27	5.37	+1.71	1.20	0	8	19	3	8	se.	C. S. Crow
Mountain Grove	Wright	1,463	24	60.7	+ 6.5	84	22†	35	29†	32	5.07	+0.29	1.54	0	11	10	18	2	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	63.8	+ 5.8	86	18†	33	30	37	5.26	+1.14	1.08	0	12	16[a]	8[a]	5[a]	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	62.9	+ 7.9	87	21†	35	5	34	4.44	−0.22	1.15	0	11	17	6	7	e.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	61.9[b]	+ 6.1	83	22†	34	30	33	6.52	+2.59	3.51	0	14	12[b]	12[b]	4[b]	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,612	19	60.8	+ 5.4	84	22	36	29†	38	4.52	+0.56	1.14	0	8	17	7	6	s.	Ira H. Hailey
Springfield	Greene	1,350	37	62.0	+ 6.0	86	22	36	30	25	2.68	−1.18	0.95	0	11	16	9	5	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	62.1	+ 5.9	90	21†	29	1†	44	4.60	+0.25	3.51	0	10	15	8	7	se.	
Southwest Plain.																				
Amoret	Bates	831	18	60.6	+ 6.1	83	20†	32	30	34	5.41	+1.41	1.53	0	13	18	5	7	e.	Andrew Rood
Appleton City	St. Clair	853	31	61.8	+ 6 0	84	22	37	29†	30	4.65	+0.39	1.72	0	13	12	14	4	se.	W. G. Bigelow
Clinton	Henry	765	32	62.7[b]	+ 7.0	89	21	36	6	36	6.02	+1.98	1 47	0	11	11	10	9	sw	A. E. Derwent, M. D
Harrisonville	Cass	904	48	59.1	+ 5.3	84	12†	36	30	33	5.37	+1.98	0.99	0	15	4	0	26	e.	John H. Patterson
Lamar	Barton	980	38	62.2	+ 5.6	86	22	36	30	31	4.30	+0.15	1.23	0	12	18	2	10	ne.	Jesse A. Mann
Lamonte	Pettis	867	24	60.6	+ 5 5	89	21	33	5	38	4.87	+1.10	1.20	0	12	9	11	10	e.	J. E. Wheeler
Marshall	Saline	779	36	61.4	+ 7.0	91	21	32	5	40	4.97	+1.28	1.47	0	11	12	7	11	ne.	Dr. W. H. Black
Nevada	Vernon	862	32	60.6	+ 5.5	84	22	35	30	29	5.45	+1.66	1.55	0	11	19	4	7	s.	George A. Kaupp
Warrensburg	Johnson	878	38	61.3	+ 5.0	85	21	36	5	34	4.81	+1.61	1.34	0	14	11	11	8	se.	L. B. Johnston
Warsaw	Benton	687	25	64.0	+ 8.2	92	10	37	5	42	4.92	+0.70	1.25	0	12	13	7	10	e.	Everett Martin
Section means and	extremes	.....	..	61.4	+ 6.1	92	10	32	5†	42	5.08	+1.23	1.72	0	13	13	7	10	e.	
Northwest Plateau.																				
Avalon	Livingston	730	35	58.8	+ 5.3	85	21	29	5	35	5.73	+2.26	2.00	0	12	7	16	7	se.	F. G. Ashbaugh
Bethany	Harrison	916	33	....	......	..	..	..	..	..	....	......	....	..	..	..	..		......	Owen Ross
Chillicothe	Livingston	779	16	57.9	+ 4.6	86	21	29	5	34	5.52	+1.08	0.92	0	15	13	10	7	ne.	Wm. J. Olenhouse
Conception	Nodaway	980	36	59.0	+ 7.1	89	22	33	30	37	2.41	−0.40	0.83	0	10	9	10	11	ne.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	58.6[c]	......	84	12†	35	5†	35	4.81	+1.27	2.00	0	13	18	1	11	s.	Fred L. Stiff
Grant City	Worth	1,131	21	58.8	+ 7.3	85	21	32	30	31	2.38	−0.68	1.29	0	5	9	17	4	s.	B. F. Locke
Kansas City	Jackson	963	36	60.2	+ 5.4	85	22	38	30	29	5.16	+1.87	1 48	0	13	11	8	11	e.	U. S. Weather Bureau
Kidder	Caldwell	1,620	32	57.3	+ 4.9	86	22	31	5	38	6.03	+2.99	2.01	0	12	13	6	11	se.	Linn Terry
Lexington	Lafayette	688	40	60.4	+ 6.3	86	21†	34	5	34	6.66	+3.30	1.60	0	13	12	10	8	se.	Edwin G. Loomis
Liberty	Clay	859	35	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	...	....
Maryville	Nodaway	1,169	35	59.2	+ 9.1	86	22	33	30	35	3 01	+0.10	0.67	0	13	16	1	13	s.	J. R. Brink
Oregon ‡‡	Holt	1,048	69	59.1	+ 5.2	81	12	34	30	29	4.81	+1.52	1.28	0	10	11	6	13	se.	Tom Curry
St. Joseph	Buchanan	967	17	59.7	+ 6.0	87	22	38	30	30	3.96	+1.10	1.07	0	16	10	10	10	se.	U. S. Weather Bureau
Tarkio	Atchison	916	22	58.8	+ 6.6	85	22	35	30	36	3.25	+0.08	0.94	0	10	9	7	14	se.	Albert Volker
Trenton	Grundy	822	29	58.0	+ 5.4	82	22	37	30	27	8.00	+4.73	3.40	0	13	14	9	7	n.	W. H. Estes
Section means and	extremes	.....	..	58.9	+ 6.2	89	22	29	5	38	4.74	+1.48	3.40	0	12	12	9	9	se.	
State means and	extremes	.....	..	61.0	+ 5.9	92	10†	24	5	54	4.11	+0.38	3.51	0	10	12	9	9	se.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b], represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson; of Gano Salem, R. F. D. No. 5.

Daily Precipitation for April, 1925.

Stations.	Drainage-basins.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Northeast Plain.																																	
Boonville‖	Missouri	....	....	.56	.05	....	....	....	....	.80	.44	....	....	.03	.11	....	.35	1.02	....	....	....	T.	....	....	.07	1.15	....	.05	....	T.	....	....	4.63
Brunswick‖	Grand	....	....	.60	....	....	....	....	....	1.05	.46	....	....	....	.10	....	.20	.45	....	....	....	.30	....	....	.98	.80	....	.12	....	.07	....	....	5.13
Clifton Hill	Chariton	....	.08	.25	....	....	....	....	.06	1.28	.05	....	....	....	....	.15	....	.30	....	....	....	.04	....	....	....	....	....	.28	.03	.02	....	....	2.54
Columbia***	Missouri	....	.37	.06	....	....	....	....	.23	.76	.01	....	....	.02	....	.40	.25	1.22	....	....	....	.01	....	....	.54	.01	....	.47	.03	T.	....	....	4.38
Downing	Mississippi	....	....	....	....	....	....	....	.20	.75	.27	....	....	.06	....	....	....	.09	....	1.66	....	.97	....	....	1.86	....	.17	T.	....	.12	....	....	6.15
Fayette‖	Missouri	....	.46	.01	....	....	....	....	.69	.63	....	....	....	.02	....	.84	....	.60	....	....	....	T.	....	....	.29	....	....	.22	.08	....	T.	....	3.84
Fulton	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Gorin	Mississippi	....	....	....	....	....	....	....	.04	.84	....	....	....	.07	....	T.	....	....	....	.47	....	.53	....	....	1.17	....	....	....	.16	....	....	....	3.28
Hannibal***	....do	....	....	....	....	....	....	....	.11	.48	.01	....	....	.04	....	T.	T.	.15	....	....	....	.06	....	....	.72	....	....	.03	.08	.22	T.	....	1.90
Hermann‖	Missouri	....	....	.04	.20	....	....	....	....	.65	.28	....	....	.06	.03	....	.35	.74	....	....	....	.02	....	....	....	T.	....	....	.35	.02	.06	....	2.80
Jefferson City‖	....do	....	....	.28	.16	....	....	....	....	.65	.12	....	....	....	.05	....	.12	1.10	....	....	....	....	....	....	....	.55	....	.05	.12	....	....	....	3.20
Kirksville	Mississippi	....	....	....	....	....	....	....	.14	....	....	....	....	....	....	....	....	....	....	.32	....	.45	....	....	1.35	....	....	....	T.	.13	....	....	2.39
Louisiana	....do	....	....	....	....	....	....	....	.02	.65	....	....	....	.04	....	.02	.01	.22	....	....	....	.80	....	....	.01	....	....	.01	....	.48	....	....	2.26
Macon ‖	Chariton	....	....	.05	....	....	....	....	....	.60	.40	....	....	....	.06	....	.25	.19	....	.55	....	....	....	....	.65	.30	....	....	....	....	....	....	3.05
Mexico ‖	Mississippi	....	....	.16	....	....	....	....	....	.76	.45	....	....	....	....	....	.20	.50	....	....	T.	.08	.01	....	....	.60	....	....	.08	.03	.02	....	2.89
Milan‖	Grand	....	....	.12	....	....	....	....	1.10	.65	.60	....	....	.20	....	....	.10	....	....	1.12	....	.50	....	....	2.40	1.35	....	....	T.	....	....	....	8.14
Pacific‖	Meramec	....	....	.03	.07	....	....	....	....	.38	.22	....	.10	....	.03	....	.18	.73	.03	....	....	....	....	....	....	.18	....	....	.40	....	.04	....	2.39
St. Catharine	Grand	....	.02	.08	....	....	....	.35	.21	.85	.02	....	....	.06	....	.06	.02	.15	....	.25	....	.30	....	....	1.29	.03	.06	.07	.04	.01	....	....	3.87
St. Charles	Missouri	....	....	....	T.	....	....	....	T.	.50	....	....	....	.43	T.	.14	.23	.88	....	....	....	....	....	....	....	.20	....	.38	....	.13	....	....	2.89
St Louis (1)***	Mississippi	....	....	.04	....	....	....	....	.11	.54	T.	....	.15	.33	.04	.35	T.	.72	....	....	....	T.	....	....	.02	.11	....	.20	.02	.07	T.	....	2.70
St. Louis (2)	....do	....	....	.07	....	....	....	....	.11	.65	.02	....	.02	.25	.34	.37	....	.72	....	....	....	....	....	....	.04	.12	....	.18	.02	.06	T.	....	2.97
Shelbina ‖	....do	....	....	....	....	....	....	....	....	.45	.82	....	....	....	.11	....	.05	.27	....	.12	....	.03	....	....	.32	.53	....	....	.10	.03	....	....	2.83
Steffenville	....do	....	....	....	....	....	....	....	.10	.70	.18	....	....	.10	....	T.	....	.40	....	.25	....	.10	....	....	.75	....	.10	....	.40	T.	....	....	3.08
Union‖	Meramec	....	....	.13	.26	....	....	....	....	.70	.11	....	....	....	.05	....	.23	.60	....	....	....	....	....	....	....	.15	....	....	.48	.02	.02	....	2.75
Unionville	Chariton	....	....	....	....	....	....	.40	.60	.65	....	....	....	....	....	....	....	....	....	.45	....	.46	....	....	2.20	....	.30	....	T.	.15	....	....	5.21
Valley Park‖	Meramec	....	....	....	.08	....	....	....	....	.42	.12	....	.06	....	.11	....	.30	.73	....	....	....	T.	....	....	....	.21	....	....	.40	....	.10	....	2.53
Warrenton	Mississippi	....	....	T.	T.	....	....	....	T.	.70	.06	....	....	T.	....	.08	.33	1.07	....	....	....	T.	....	....	....	T.	....	.23	....	T.	.02	....	2.49
Keokuk, Ia.***	....do	....	....	....	....	....	....	....	.08	.65	....	....	....	.09	....	T.	T.	.27	....	.78	....	.28	....	....	1.21	....	....	T.	.12	.19	....	....	3.67
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi	....	....	....	.01	.01	....	....	....	.36	.08	.02	.18	....	.22	....	.27	.40	.37	....	....	....	....	....	....	....	....	....	.83	.02	....	....	2.80
Caruthersville	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Doniphan	Black	....	....	.27	.96	....	....	....	.07	.16	....	....	.15	13	....	....	.13	.61	....	....	....	....	....	....	....	.14	....	1.10	....	....	....	....	3.72
Jackson	Mississippi	....	....	....	....	....	....	....	....	.55	.05	....	.22	....	.57	....	.42	.61	....	....	....	....	....	....	....	....	....	.80	.16	....	....	....	3.38
Marble Hill	Mississippi	....	....	.12	.24	....	....	....	....	.50	....	....	.20	....	.25	....	.30	.68	....	....	....	....	....	....	....	....	....	1.10	....	....	....	....	3.39
New Madrid‖	....do	....	....	.13	.50	.02	....	....	....	....	.03	.02	....	....	....	....	.03	.01	.61	....	....	....	....	....	....	....	....	....	.70	....	....	....	2.05
Parma	St. Francis	....	....	....	.50	....	....	....	....	....	....	....	....	....	....	....	....	.63	....	....	....	....	....	....	....	....	....	1.10	....	....	....	....	2.23
Patton (near)	Mississippi	....	....	....	....	....	....	....	.40	....	....	....	....	....	.30	....	.80	.95	....	....	....	....	....	....	....	....	....	1.12	....	....	....	....	3.57
Poplar Bluff	Black	....	.20	.35	....	....	....	....	.16	....	....	....	....	....	....	....	.70	....	....	.15	....	....	....	....	....	....	.21	.91	....	....	....	....	2.68
Vanduser	Mississippi	....	....	....	.55	....	....	....	....	.14	....	.05	....	....	.02	....	.03	.65	....	....	....	....	....	....	....	....	1.16	.08	....	....	....	....	2.68
Cairo, Ill.***	....do	....	....	.05	.01	....	....	....	....	T.	.01	....	T.	T.	....	....	.15	.71	....	T.	....	....	....	....	....	....	....	.73	....	T.	T.	....	1.66
Ozark Plateau.																																	
Annapolis‖	St. Francis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Arcadia ‖	....do	....	T.	.31	.31	....	....	....	....	.66	....	T.	T.	....	.76	....	.16	.67	.23	....	....	....	....	....	....	.42	.28	.02	1.00	....	....	....	4.82
Birchtree	Black	....	....	.22	.09	....	....	....	.68	.40	....	....	.06	.14	....	....	.53	.89	....	....	....	....	....	....	....	1.30	....	1.58	....	....	....	....	5.89
Bolivar	Osage	....	.55	.25	....	....	....	....	.17	.78	....	....	....	....	....	....	.93	.19	....	....	....	....	....	....	.40	.20	....	.80	....	....	....	....	4.27
Dean	Neosho	....	.10	.19	.01	....	....	....	.26	.22	.19	....	....	.09	....	....	.66	.06	....	....	....	.09	....	....	.81	.42	....	1.14	.04	....	....	....	4.28
De Soto‖	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Eldon	Missouri	.31	.53	....	....	....	....	.03	.36	.36	....	....	....	T.	.27	....	.10	....	....	....	....	....	....	....	.63	....	....	.49	.03	....	....	....	3.11
Farmington	St. Francis	....	....	.23	....	....	....	....	....	.58	.03	....	.04	.52	.26	....	.10	1.12	....	....	....	....	....	....	....	.78	....	.52	....	T.	....	....	4.18
Fredericktown‖	....do	....	....	.09	.06	.37	.35	....	....	.47	.53	.41	.39	.61	.37	.48	....	....	....	.39	....	....	.31	....	....	....	....	.42	....	....	....	....	5.25
Galena‖	White	....	.05	....	.05	....	....	....	....	.40	....	....	....	....	....	....	.85	....	....	....	....	....	....	....	....	1.30	....	1.18	....	....	....	....	3.83
Gano	Meramec	....	....	.48	.04	....	....	....	.30	.86	.08	....	....	....	.04	....	.13	.69	....	....	....	....	....	....	....	.86	....	.81	....	....	....	....	4.29
Goodland	Black	....	....	.39	.24	....	....	....	....	.43	.03	....	....	.24	.34	....	.10	.68	....	....	....	....	....	....	....	.70	....	1.10	....	....	....	....	4.25
Greenville	St. Francis	....	....	.13	.17	....	....	....	....	.38	....	....	T.	.04	.12	....	.04	1.26	....	....	....	....	....	....	....	.58	....	1.90	.02	....	....	....	4.64
Hollister	White	....	....	.60	....	....	....	....	....	1.20	....	.30	....	....	.70	....	....	....	....	....	....	....	....	....	2.20	....	1.80	....	....	....	....	....	6.80
Jerome ‖	Gasconade	....	....	.10	.80	....	....	....	....	1.10	.05	....	....	....	....	....	.28	.40	....	....	....	....	....	....	....	.49	....	.62	.10	.10	T.	....	4.04
Koshkonong	Black	....	.02	.31	.40	....	....	....	.10	T.	....	....	.08	.01	....	....	.33	....	....	....	....	....	....	....	....	.69	....	1.53	....	....	....	....	3.47
Lebanon ‖	Osage	....	....	....	.65	....	....	....	....	1.30	....	....	....	....	.02	....	....	1.30	....	....	....	....	....	....	....	.26	....	.65	.55	....	....	....	4.73
Lockwood	....do	....	.55	1.20	....	....	....	....	....	.65	....	....	.10	....	....	....	1.01	....	....	....	....	....	....	....	.56	....	.30	1.00	....	....	....	....	5.37
Mountain Grove‖	White	....	.15	.22	T.	....	....	....	T.	1.03	.02	....	.03	.05	.02	....	.90	.04	....	....	....	....	....	....	....	1.07	....	1.54	T.	....	....	....	5.07
Neosho	Neosho	....	.16	34	.67	....	....	....	.14	.63	.17	....	....	.12	....	....	.78	....	....	....	....	....	....	....	1.08	.02	....	1.05	.10	....	....	....	5.26
Rolla	Meramec	....	.30	.37	....	....	....	....	1.15	.11	....	....	....	.22	....	.18	.63	....	....	....	....	....	....	....	.46	....	.20	.80	.02	....	....	....	4.44
Seligman	Neosho	....	.05	.14	.06	....	....	....	26	.09	.15	....	....	.02	....	....	.78	.10	....	....	....	....	.05	....	.09	3.51	....	1.17	.05	....	....	....	6.52
Seymour (near)	White	....	.10	.11	T.	....	....	....	.12	.83	T.	....	T.	.42	....	....	.73	....	....	....	....	T.	....	....	....	1.14	....	1.04	T.	....	....	....	4.52
Springfield **	....do	....	.17	.15	....	....	....	....	.91	.04	.02	....	.01	.02	T.	....	.38	T.	....	....	....	T.	....	....	.36	.04	....	.58	T.	....	T.	....	2.68
Steelville‖	Meramec	....	....	.34	.25	....	....	....	....	.96	.10	....	....	....	.13	....	.18	.54	.09	....	....	....	....	....	....	.52	....	.35	.82	....	....	....	4.28
Tuscumbia ‖	Osage	....	....	.28	.56	....	....	....	.01	.66	.04	....	....	....	.26	....	.07	.38	....	....	....	T.	....	....	....	.21	....	.10	.48	T.	....	....	3.05
Willow Sprgs. ‖ (near)	White	....	....	.18	.26	....	....	....	....	1.27	....	....	....	....	.05	....	.49	.25	....	....	....	....	....	....	....	2.00	.30	....	.38	.29	.04	....	5.51
Southwest Plain.																																	
Amoret	Osage	....	1.53	1.11	.03	....	....	.11	.33	.90	....	.12	....	.06	....	....	.37	.07	....	....	....	....	....	....	.53	....	....	.21	.04	....	....	....	5.41
Appleton City	....do	....	1.72	1.02	....	....	....	....	.06	.49	....	....	....	.01	.03	T.	.38	.22	....	....	....	T.	....	....	.02	.34	....	.33	.03	....	....	....	4.65
Clinton	....do	....	1.30	1.47	....	....	....	....	.20	.90	.03	....	....	....	.30	....	.90	.05	....	....	....	....	....	....	....	.60	....	.25	.02	....	....	....	6.02
Harrisonville‖	....do	....	.44	.99	.60	....	....	....	.03	.71	.01	....	....	.12	.44	....	.07	.35	....	....	....	....	....	....	.95	.30	....	.12	.10	.14	....	....	5.37
Joplin*	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lamar‖	....do	....	.40	1.23	.14	....	....	....	....	.60	....	....	.06	.05	....	....	1.00	.16	....	....	....	....	....	....	....	.41	....	.05	.16	.04	....	....	4.30
Lamonte	Missouri	....	1.20	.68	.04	....	....	....	.08	.62	....	....	....	.23	.15	T	.40	.40	....	....	....	T.	....	T.	.25	....	....	.77	.05	T.	....	....	4.87
Marshall	....do	....	.44	.32	T.	....	....	....	.18	.96	.06	....	....	.17	....	.38	.04	1.47	....	....	....	T.	....	....	.45	.01	....	.38	.01	.10	....	....	4.97
Nevada	Osage	....	1.14	1.51	.24	....	....	....	.08	.35	....	....	....	.02	T	....	1.55	.15	....	....	....	....	....	....	.17	.02	....	.22	....	....	....	....	5.45
Osceola‖	....do	....	1.00	.36	1.50	....	....	....	....	.56	....	....	....	....	.06	....	.07	.46	....	....	....	....	....	....	....	.21	....	.25	....	....	....	....	4.47
Warrensburg	Missouri	....	1.34	.68	.10	....	....	....	13	.46	T.	....	....	.10	.33	T.	.62	.21	....	....	....	.10	....	T.	.21	.01	....	.50	.02	....	....	....	4.81
Warsaw	Osage	....	.85	.81	1.25	....	....	....	.08	.57	....	....	....	....	.26	.05	.57	....	....	....	....	.07	....	....	.10	.11	....	.20	....	....	....	....	4.92
Waverly ‖	Missouri	....	T.	.78	.02	....	....	....	....	.02	.65	.15	....	T.	.10	....	.45	1.22	....	....	....	.13	T.	....	.92	.72	....	.11	.08	.04	T.	....	5.39
Northwest Plateau.																																	
Albany‖	Grand	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Avalon	....do	.50	....	....	....	....	....	.10	....	1.10	....	....	....	.20	....	.15	.15	....	.33	....	.80	....	....	1.25	.75	....	.33	....	.07	....	....	....	5.73
Bethany	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Chillicothe ‖	....do	....	....	.47	....	....	....	....	.92	.40	.33	....	....	.04	.05	T.	.20	.05	T.	.66	....	88	....	....	.90	.50	....	.05	.02	.05	....	....	5.52
Conception	Missouri	....	.30	T.	....	....	....	.14	31	.12	....	....	....	T.	....	.12	....	....	....	.10	....	T.	....	.83	.12	....	.14	....	.23	....	....	....	2.41
Edgerton	....do	....	1.13	.11	....	....	....	.16	17	.02	....	....	....	.08	T.	....	.61	.06	....	....	....	....	....	.14	2.00	....	.02	.18	.13	T.	....	....	4.81
Gallatin ‖	Grand	....	....	.67	....	....	....	....	.90	.43	.14	....	....	....	.05	....	.30	....	....	.60	....	.48	....	....	1.45	1.30	....	T.	.10	.07	.05	....	6.54
Grant City	....do	....	T.	.12	....	....	....	T.	.62	.25	....	....	....	T.	T.	....	....	....	....	....	1.29	....	T.	....	....	.10	....	T.	T	....	....	....	2.38
Kansas City***	Missouri	.03	1.45	.24	....	....	....	.32	.24	T.	....	....	....	.11	....	.05	.83	....	.16	....	....	....	....	.89	.34	....	T.	.35	.15	....	....	....	5.16
Kidder ‖	Grand	....	....	.65	....	....	....	....	.71	.50	.10	....	....	....	....	....	.23	....	....	.44	....	.07	....	....	2.04	1.18	....	.02	.03	.06	....	....	6.03
Lexington ‖	Missouri	....	....	1.40	.13	....	....	....	....	.65	.05	....	....	....	.20	....	.20	1.30	....	.13	....	....	....	....	1.60	.70	....	.20	.05	.05	....	....	6.66
Liberty	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Maryville	....do	....	.16	....	....	....	....	.13	.35	.67	.18	....	....	.11	....	....	.18	....	....	.03	.03	.30	....	....	.30	....	.23	....	....	.34	....	....	3.01
Oregon	....do	....	.65	....	....	....	....	....	1.28	.16	....	....	....	....	....	.38	.03	....	.12	....	1.07	....	....	.87	.17	.08	....	....	....	....	....	....	4.81
St. Joseph***	....do	.15	.92	.03	....	....	....	.54	.15	.08	....	....	....	.03	T.	.30	.12	....	.39	.01	.01	....	....	.90	.12	....	T.	.02	.19	....	....	....	3.96
Tarkio	....do	....	.38	....	....	....	....	.12	.87	.16	....	....	....	....	....	.03	....	....	....	.09	....	.94	....	.08	....	....	.25	....	.33	....	....	....	3.25
Trenton	Grand	....	.25	.03	....	....	....	.51	1.02	1.54	.12	....	....	.13	....	.08	....	.04	....	.83	....	....	....	....	3.40	....	T.	.02	.03	T.	....	....	8.00

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch.
*** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for April, 1925.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	70	55	62	68	65	74	79	66	87	75	83	85	77	80	56	65	70	85	75	78	89	86	80	74	85	74	64	57	51	51	..	72.2
	Minimum	41	42	49	46	32	38	39	53	54	47	49	52	57	48	44	48	49	54	55	51	51	58	65	62	55	57	51	40	39	37	..	48.8
Columbia	Maximum	66	60	59	63	60	73	76	68	56	72	79	83	73	77	61	60	78	87	73	76	88	89	84	80	79	77	60	58	48	57	..	70.7
	Minimum	40	47	47	46	34	39	53	55	51	48	53	52	59	51	46	49	52	60	56	50	60	70	67	62	59	56	47	38	39	37	..	50.8
Fayette	Maximum	70	56	59	68	63	74	89	65	56	74	80	83	76	78	57	64	76	87	76	78	89	88	82	79	..	82	65	57	49	60	..	[a]71.7
	Minimum	36	38	46	45	32	33	35	50	51	46	46	50	55	47	43	44	50	52	55	49	50	56	65	62	52	..	49	38	38	36	..	[a]46.5
Hannibal	Maximum	64	66	65	63	59	70	77	71	60	74	80	83	70	77	60	62	61	87	71	71	78	89	84	83	80	75	60	61	45	56	..	70.1
	Minimum	36	44	48	41	32	38	48	52	52	48	53	52	62	54	46	49	50	55	53	48	55	72	69	63	61	57	48	40	40	39	..	50.2
Jefferson City §§	Maximum	70	61	54	64	63	75	79	70	63	71	80	83	76	80	62	61	80	88	75	78	89	90	85	84	80	81	54	58	51	58	..	72.1
	Minimum	40	45	49	47	33	40	48	55	54	48	50	54	60	51	48	48	50	55	57	53	54	62	66	69	59	55	52	39	38	38	..	50.6
Kirksville	Maximum	65	59	66	63	60	78	..	65	57	76	80	87	77	78	72	63	58	85	76	68	83	85	81	71	81	76	67	58	48	60	..	[a]70.6
	Minimum	33	43	45	39	25	30	..	50	46	43	43	48	54	47	37	39	46	51	46	45	53	65	65	59	52	55	47	35	35	35	..	[a]45.2
Louisiana	Maximum	68	68	67	65	66	72	80	73	65	75	74	85	82	76	76	62	66	86	84	75	85	90	88	85	82	78	63	65	66	55	..	74.1
	Minimum	29	32	38	46	33	32	38	45	55	50	50	45	58	68	48	48	46	55	51	46	46	65	66	64	58	40	55	40	41	38	..	47.6
Macon §§	Maximum	68	62	68	67	64	73	79	64	58	63	80	84	74	80	57	63	65	86	73	74	87	88	80	76	81	76	70	69	62	60	..	71.7
	Minimum	36	43	40	43	25	33	44	51	52	43	49	49	57	48	40	42	47	49	49	36	47	56	68	60	56	56	52	36	37	36	..	46.0
Mexico §§	Maximum	67	64	62	63	61	74	80	67	58	75	80	85	70	80	51	63	71	88	75	74	88	90	86	86	83	80	61	62	46	60	..	71.7
	Minimum	36	40	46	46	31	33	41	50	54	46	50	51	57	52	45	48	50	54	55	48	51	56	67	64	59	54	51	35	38	37	..	48.2
St. Catharine	Maximum	65	61	66	63	60	70	78	69	59	73	78	80	75	77	67	62	64	82	74	70	82	83	78	74	77	71	63	60	46	57	..	69.5
	Minimum	39	48	47	58	29	37	53	53	52	45	49	52	57	47	40	44	48	52	49	48	55	67	66	61	55	57	48	39	36	35	..	48.9
St. Louis (1)	Maximum	64	69	61	65	62	71	78	73	62	69	80	84	80	79	67	59	72	85	76	71	88	91	88	89	76	82	61	64	50	52	..	72.5
	Minimum	39	48	48	45	36	40	51	58	54	50	56	59	59	59	51	51	51	59	57	48	58	69	71	67	62	64	47	41	40	42	..	52.7
Unionville	Maximum	68	60	70	64	63	71	78	72	55	74	80	81	78	75	72	65	62	82	77	68	82	84	80	72	80	74	65	60	46	58	..	70.5
	Minimum	36	40	44	40	25	30	46	50	46	42	50	46	56	46	36	38	46	50	45	46	52	65	64	54	50	54	48	38	36	35	..	45.1
Warrenton	Maximum	65	68	64	64	61	72	78	76	63	70	80	84	81	79	77	59	77	85	84	74	85	91	89	88	80	83	78	63	60	56	..	74.5
	Minimum	37	41	47	48	32	34	46	54	54	49	53	52	60	53	47	47	49	57	57	47	58	65	79	69	58	53	47	35	37	37	..	50.1
Southeast Lowlands.																																	
Caruthersville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Doniphan	Maximum	70	71	68	65	68	70	77	77	76	73	82	82	81	87	84	67	74	86	85	82	85	86	85	87	81	86	69	66	61	61	..	76.4
	Minimum	33	35	48	47	42	45	41	47	55	53	45	47	51	51	66	51	53	58	67	58	64	68	63	65	63	57	51	46	41	41	..	51.8
Jackson	Maximum	68	75	69	68	68	77	82	81	74	74	84	85	86	83	78	66	73	85	84	86	87	88	88	90	86	89	82	67	65	60	..	78.3
	Minimum	32	32	49	49	37	34	38	45	57	51	41	51	53	67	48	47	51	58	57	52	61	65	63	65	62	58	50	40	40	41	..	49.8
Poplar Bluff	Maximum	75	75	66	66	74	76	80	79	79	75	86	85	84	89	86	69	77	88	88	84	86	87	87	89	84	89	77	69	63	64	..	79.2
	Minimum	33	33	38	41	41	40	47	58	54	44	47	47	52	49	57	50	49	67	56	61	67	59	61	62	56	59	44	40	42	42	..	49.9
Cairo, Ill.	Maximum	64	69	62	66	64	73	78	78	75	67	81	84	83	82	77	62	73	84	83	81	86	84	87	88	80	84	67	65	57	58	..	74.7
	Minimum	41	46	50	52	43	45	49	54	61	53	49	58	61	59	56	50	54	63	65	55	64	69	68	69	67	66	51	49	44	44	..	55.2
Ozark Plateau.																																	
Arcadia §§	Maximum	68	67	49	64	60	70	75	68	68	68	80	81	78	81	72	59	74	81	82	75	83	85	83	85	78	80	52	61	52	55	..	71.1
	Minimum	31	30	36	45	35	30	35	42	47	48	45	52	53	50	45	47	48	52	59	52	53	63	66	66	57	52	52	38	38	40	..	46.9
Birchtree	Maximum	72	68	63	66	68	71	78	68	72	71	80	82	79	83	79	73	75	84	84	78	82	85	85	87	77	81	73	68	58	58	..	74.9
	Minimum	40	45	42	49	40	45	50	56	53	50	52	54	58	53	56	49	53	50	65	58	60	61	66	65	58	56	51	42	38	39	..	51 8
Eldon	Maximum	54	52	66	64	63	75	63	80	65	68	80	79	75	80	65	61	81	89	78	80	90	90	88	84	83	86	67	58	53	60	..	72.6
	Minimum	46	45	47	40	33	38	54	50	53	48	51	54	57	49	41	48	56	60	51	54	63	66	66	62	58	55	47	36	38	37	..	50.2
Farmington	Maximum	68	70	68	68	68	78	84	68	67	67	82	84	82	78	70	68	79	85	80	80	81	90	88	81	79	84	73	61	52	53	..	74.6
	Minimum	37	38	48	48	34	31	42	44	53	49	51	54	56	54	51	48	51	54	62	50	60	66	67	63	60	58	48	36	37	37	..	49.7
Hollister	Maximum	74	76	65	64	66	75	80	72	72	73	70	74	85	80	82	88	72	80	84	89	85	84	80	90	89	81	80	79	69	60	..	77.0
	Minimum	50	48	46	44	46	35	46	55	50	52	50	51	42	45	44	50	40	48	52	52	65	62	59	55	49	50	40	40	36	38	..	48.0
Koshkonong	Maximum	72	69	64	65	68	73	73	72	74	72	80	80	81	84	84	69	76	85	86	81	83	86	85	87	78	80	75	65	59	60	..	75.5
	Minimum	45	47	47	45	43	44	52	55	54	52	55	55	55	58	60	51	54	60	73	58	65	65	64	68	60	57	51	44	40	40	..	53.9
Lebanon §§	Maximum	72	55	52	67	66	75	81	65	64	72	78	82	76	79	71	60	81	85	80	80	86	90	85	82	77	85	58	50	57	58	..	72.3
	Minimum	43	35	44	44	33	40	47	54	51	47	49	53	55	46	51	49	50	56	51	57	58	66	65	66	56	50	51	38	34	35	..	49.2
Mountain Grove §§	Maximum	67	61	58	66	63	69	75	62	67	69	79	79	74	81	77	61	76	82	81	76	80	84	82	84	72	81	72	61	55	55	..	71.7
	Minimum	37	45	45	46	36	39	44	52	51	48	49	51	51	49	52	48	53	59	59	56	64	65	64	64	55	49	47	39	35	35	..	49.7
Neosho	Maximum	74	72	74	65	74	73	77	73	68	71	80	83	82	83	82	77	84	86	85	84	85	86	84	82	75	78	75	62	59	58	..	76.4
	Minimum	40	54	49	47	48	36	59	52	49	50	43	53	54	49	49	51	59	57	52	57	63	67	68	59	56	51	50	42	35	33	..	51.1
Rolla	Maximum	70	60	58	66	68	73	79	71	63	71	80	83	78	79	78	70	79	83	84	77	87	87	85	87	75	83	77	61	58	58	..	74.3
	Minimum	40	43	46	47	35	39	50	55	53	49	52	56	60	51	51	48	52	63	57	52	67	68	69	69	58	54	48	38	37	37	..	51.5
Springfield	Maximum	68	61	54	62	66	69	74	65	63	69	76	79	73	77	75	63	83	85	76	76	83	86	84	78	71	79	67	54	53	55	..	70.8
	Minimum	49	46	46	48	42	47	55	53	51	50	52	61	60	55	55	49	58	64	60	60	69	67	68	60	56	55	47	40	37	36	..	53.2
Southwest Plain.																																	
Amoret	Maximum	71	64	52	64	63	70	76	68	66	73	79	81	79	78	66	64	81	81	77	83	80	83	80	79	80	78	67	60	58	60	..	72.0
	Minimum	40	34	45	45	38	40	54	53	52	47	46	54	57	44	47	48	53	56	52	58	56	67	62	62	52	53	48	40	38	32	..	49.1
Appleton City	Maximum	71	63	50	64	63	72	76	70	65	73	79	82	78	78	70	63	81	82	77	80	75	84	83	77	81	77	67	54	57	60	..	71.7
	Minimum	44	44	46	47	45	42	55	55	53	48	49	57	59	49	51	50	55	61	54	56	65	69	66	62	56	56	49	42	37	37	..	52.0
Clinton	Maximum	74	65	55	61	..	..	80	75	67	68	85	85	80	81	76	68	85	88	75	83	89	88	85	82	85	82	70	56	65	62	..	[b]75.5
	Minimum	43	42	44	45	..	36	54	55	52	48	54	52	57	50	40	48	53	58	64	55	72	68	65	63	55	55	38	42	37	37	..	[a]49.9
Harrisonville §§	Maximum	69	49	49	64	61	71	76	65	60	75	81	84	78	79	61	57	78	82	75	77	84	81	77	72	79	71	60	48	57	60	..	69.4
	Minimum	42	42	41	44	37	40	43	52	51	47	47	52	58	48	46	47	48	53	51	54	57	61	66	62	54	56	48	43	37	36	..	48.8
Lamar §§	Maximum	74	63	50	65	66	73	77	71	66	72	78	80	77	80	74	67	84	83	77	80	85	86	83	75	81	75	63	57	58	59	..	72.6
	Minimum	45	46	46	47	41	43	47	55	53	48	48	51	59	52	55	51	53	61	53	58	61	66	67	70	57	54	53	44	37	36	..	51.9
Lamonte	Maximum	69	56	50	64	63	76	80	64	61	73	81	86	78	79	63	59	83	87	76	79	89	87	83	77	84	79	63	53	53	58	..	71.8
	Minimum	41	43	46	45	33	38	52	53	51	46	48	52	57	47	46	47	53	57	54	53	59	66	66	63	54	55	47	39	36	36	..	49.4
Marshall	Maximum	70	57	58	64	63	74	81	73	63	74	81	85	80	80	72	85	75	85	77	78	91	88	87	80	86	79	69	60	50	62	..	74.2
	Minimum	39	44	41	45	32	34	50	52	52	46	49	50	57	56	41	50	52	46	50	50	57	64	66	62	53	55	50	37	38	35	..	48.5
Nevada	Maximum	72	63	54	60	57	71	74	70	65	69	77	80	79	77	73	67	81	80	78	79	79	84	73	63	77	73	66	57	56	55	..	70.3
	Minimum	45	44	45	45	39	45	54	54	43	48	51	51	59	49	51	50	57	61	53	55	61	70	61	61	55	56	48	43	38	35	..	50.9
Warrensburg	Maximum	70	62	50	65	64	74	77	70	62	72	80	83	78	77	70	58	80	83	75	79	85	84	79	79	80	80	67	57	57	58	..	71.8
	Minimum	44	43	45	45	36	40	53	55	52	48	50	57	58	48	47	47	53	57	54	55	59	69	68	63	55	58	49	41	37	38	..	50.8
Warsaw	Maximum	70	69	54	65	65	74	78	73	65	92	80	83	79	81	74	61	82	86	84	80	87	87	84	84	81	82	71	59	60	68	..	75.3
	Minimum	46	45	47	47	37	40	56	57	54	50	51	51	59	49	51	49	55	62	55	58	66	71	69	65	58	55	58	39	38	39	..	52.6
Northwest Plateau.																																	
Chillicothe §§	Maximum	69	51	64	65	63	72	77	61	58	74	79	82	76	76	53	63	65	82	73	74	86	85	78	66	80	68	63	53	48	56	..	68.7
	Minimum	39	42	41	41	29	35	42	52	52	45	47	51	58	47	41	43	44	50	50	49	53	60	66	62	53	55	50	39	37	36	..	47.1
Grant City	Maximum	69	62	67	67	63	71	70	62	55	76	83	82	80	74	66	71	80	77	74	82	85	82	69	69	80	64	61	51	59	66	..	70.6
	Minimum	42	43	41	42	33	37	51	52	51	41	51	52	49	40	40	50	54	50	52	55	66	67	59	49	47	48	41	35	31	32	..	46.9
Kansas City	Maximum	68	52	53	63	60	71	71	64	60	74	81	83	76	78	56	58	72	80	74	77	83	85	76	68	81	68	58	52	55	57	..	68.5
	Minimum	47	42	46	46	40	45	55	53	51	48	57	54	58	54	47	48	52	57	56	55	61	72	64	60	56	39	49	44	40	38	..	51.8
Kidder §§	Maximum	68	51	62	66	62	71	73	58	55	74	76	81	77	79	51	62	67	81	80	85	85	86	81	66	81	66	65	50	56	59	..	69.1
	Minimum	37	41	41	39	31	33	35	50	49	44	45	54	51	46	41	42	44	48	50	50	51	58	64	62	49	52	46	41	36	35	..	45 5
Lexington §§	Maximum	69	60	55	56	61	71	76	67	60	75	80	82	79	79	75	56	64	81	75	76	86	86	79	79	81	72	64	59	53	58	..	70.5
	Minimum	41	43	46	45	34	37	52	54	52	48	53	52	58	49	45	47	51	55	55	53	60	68	67	61	53	59	50	41	39	37	..	50.2
Maryville	Maximum	68	68	66	69	62	70	70	58	55	76	81	81	79	79	65	63	72	78	78	73	82	86	74	71	81	74	65	54	52	59	..	70.4
	Minimum	48	44	45	41	36	39	53	51	49	43	48	54	56	44	42	42	49	54	52	52	57	68	60	58	48	49	48	37	36	33	..	47 9
Oregon	Maximum	61	57	63	65	60	69	68	61	57	73	78	81	76	76	67	59	66	77	78	73	72	72	74	75	77	71	75	64	58	52	..	68.6
	Minimum	45	42	42	42	37	41	52	50	47	44	52	52	57	47	43	44	49	49	52	55	51	62	61	57	60	62	63	50	42	34	..	49.6
St. Joseph	Maximum	68	51	64	68	63	71	67	58	57	74	82	85	78	80	53	57	69	79	75	75	84	87	74	70	81	66	65	51	58	57	..	68.7
	Minimum	47	41	47	44	38	42	54	52	50	48	54	57	56	50	45	47	51	57	56	54	60	72	62	56	51	56	50	40	39	38	..	50.7
Trenton	Maximum	66	57	64	62	62	67	72	62	58	71	73	75	74	73	57	61	67	77	69	70	80	82	75	66	68	67	61	56	46	55	..	66.4
	Minimum	45	48	49	40	33	40	45	52	51	45	52	53	58	50	42	45	50	57	51	52	58	65	60	60	61	58	51	42	38	37	..	49.6

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 5-23-25—860.

1NMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXIX. COLUMBIA, MO., MAY, 1925. No. 5.

GENERAL SUMMARY.

Viewed as a whole, the month of May, 1925, averaged cooler and drier than the normal. But taken in parts it was, to use a popular expression, "a freaky month;" one in which seemingly the coal-man, the ice-man and the lawn mower were in a combine, for they all were in demand, and mostly at the same time.

The outstanding features were the near winter temperatures of the 2d, 19th, and 25th, and some really hot weather from the 21st to the 24th. On the 2d, and 19th minimum readings ranged below 40° along the southern border, and generally at low frost values in northern sections. With respect to extremes of temperature, both high and low, the period from the 21st to 25th, inclusive, was probably the most remarkable in the history of the Missouri Climatological Service. From the 21st to the 23d excessive heat prevailed with some record breaking temperatures for the season; the warm wave was quickly followed by a cool wave that overspread the entire State by the morning of the 25th, attended by record breaking minimum temperatures, and heavy to killing frosts in all sections, save the extreme southeast, for so late in May. The change in temperature during this relatively short time was from 55° to 70°.

The main crops, corn, wheat, and tree fruits, were not seriously damaged; and most of the less hardy crops made marked recovery. The month was favorable for outdoor occupations.

TEMPERATURE.

The monthly mean temperature for the State, 67 stations reporting, was 61.2°, or 3.4° lower than the 36 years' average, and about 2.6° higher than the mean for May, 1924. The first 20 days were mainly cooler than normal. The last ten days were marked by extremes, both high and low occurring in this period. Afternoon temperatures ranged in the 90's on the 21st, 22d, and 23d, and on the morning of the 25th there were some record breaking minimum temperatures for so late in May, freezing or near freezing being general, accompanied by heavy to killing frosts---killing to many of the less hardy crops---in all sections from and north of the Ozarks. The range was 72°, from a maximum of 98° on the twenty-third to a minimum of 26° on the twenty-fifth. The minimum for the month, however, was 24°, at Unionville on the 2d.

PRECIPITATION.

The average precipitation for the State, 98 stations reporting, was 2.14 inches, or about 2.56 inches less than the 56 years' average. It also was the driest May since 1914. While the month was much drier than usual in all sections, the deficiency was more marked along the eastern and northern borders. Showery spells, however, along with relatively low temperatures, prevented any adverse crop effects, except most vegetation in the southeastern counties was at the stage where good rains were needed to prevent deterioration.

WIND.

The prevailing winds were from the south. The average wind movement was 6,303 miles, based upon the records of 8 stations equipped with anemometers. The hourly velocity was about 8 miles, or slightly less than the usual. Strong winds occurred on the 15th, 16th, 21st, 22d, 24th, 29th, and 31st.

SUNSHINE AND CLOUDINESS.

The number of clear days was 14, four more than last May. The average number of hours of sunshine was 310, or about 70 per cent of the possible and about 7 per cent more than normal.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---6th, 9th, 10th, 12th, 14th, and 19th.

Frost, light.---1st, 2d, 5th, 6th, 12th, 18th, and 27th.

Frost, heavy to killing.---25th (Killing to gardens and truck, but not the main crops).

Halos, solar.---2d, 3d. 5th, 6th, 9th, 10th, 11th, 12th, 13th, 15th, 23d, 25th, and 28th.

Halos, lunar.---2d.

Hail.---At Kansas City, Mountain Grove, and St. Joseph, on the 13th; Clifton Hill, Mexico and Warrensburg, 15th; Brunswick and Chillicothe, 16th; Arcadia and Hailey, 23d; Dean and Houston, 24th.

Thunderstorms.---20th, 21st, 23d, 28th 29th, 30th, and 31st.

SPECIAL STORM NOTES.

May 13.---A heavy hail storm occurred about 11 miles southeast of Springfield, Mo., at about 10 a. m. The hail was heavy, and about the size of playing marbles. Considerable damage was done to gardens and orchards.

May 16.---Thunderstorms, accompanied by heavy rain, high wind, and hail, crossed the State from west to east during the evening and early night. There was some damage at St. Joseph; and the railroad trains were delayed for a short time. At Boonville, there was about $50,000 wind damage, and from $75,000 to $100,000 wind damage at Columbia; at Mexico streets and basements were flooded. There was no damage of consequence reported east of Audrain County.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.00	77	62	287	65	5,141	6.9	38	w.	15
Hannibal	30.01	72	..	...	..	5,978	8.0	33	sw.	22
Kansas City	30.00	75	57	327	74	6,884	9.3	35	sw.	15
St. Joseph	29.99	77	54	323	72	5,382	7.2	29	nw.	16
St. Louis	30.00	68	47	299	67	8,715	11.7	50	nw.	16
Springfield	30.01	74	58	293	67	6,904	9.3	46	n.	13
Cairo, Ill	29.99	72	46	...	..	6,202	8.3	40	ne.	21
Keokuk, Iowa	30.00	70	49	330	74	5,215	7.0	32	nw.	4

COMPARATIVE DATA FOR MAY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	62.1	−2.3	93	30	5.35	+0.58	......	0	5	....	....	....
1889	63.5	−0.9	96	28	6.56	+1.79	......	0	5	....	....	....
1890	62.8	−1.6	96	32	3.47	−1.30	......	0	6	....	....	....
1891	61.5	−2.9	97	28	4.26	−0.51	......	0	8	....	....	....
1892	60.7	−3.7	91	28	7.80	+3.03	3.90	0	17	5	9	17
1893	66.8	−2.6	94	30	5.89	+1.12	5.83	0	10	11	11	9
1894	63.7	−0.7	95	22	3.99	−0.78	4.20	0	8	13	11	7
1895	64.6	+0.2	103	28	4.08	−0.69	3.43	0	9	13	12	6
1896	70.1	+5.7	96	32	9.09	+4.32	4.66	0	12	12	12	7
1897	62 4	−2.0	93	28	2.56	−2.21	3.82	0	7	16	11	4
1898	65.2	+0.8	97	31	7.90	+3.13	5.50	0	14	12	10	9
1899	66.9	+2.5	96	34	6.26	+1.49	5.28	0	2	10	13	8
1900	66.3	+1.9	97	29	3.69	−1.06	4.00	0	10	14	11	6
1901	63.8	−0.6	98	30	1.47	−3.30	3.04	0	6	15	10	6
1902	69.4	+5.0	98	39	5.03	+0.25	4.35	0	11	13	11	7
1903	65.1	+0.7	92	23	7.10	+2.33	3.10	0	15	9	10	12
1904	63.1	−1.3	95	32	5.03	+0.26	4.33	0	12	13	10	8
1905	64.9	+0.5	94	34	4.87	+0.10	4.55	0	10	12	11	8
1906	66.3	+1.9	98	27	2.16	−2.61	3.83	0	7	15	10	6
1907	59.5	−4.9	91	17	5.56	+0.79	4.33	0	10	14	6	11
1908	66.1	+1.7	96	24	6.92	+2.15	5.65	0	12	12	10	9
1909	63.3	−1.1	96	23	5.34	+0.57	5.26	0	9	15	9	7
1910	60.1	−4.3	94	32	6.62	+1.85	4.30	0	13	11	8	12
1911	68.8	+4 4	101	27	1.55	−3.22	2.06	0	5	19	7	5
1912	67.6	+3.2	97	30	3.86	−0.91	4.90	0	7	18	8	5
1913	65.8	+1.3	101	33	3.05	−1.93	2.95	0	8	16	7	8
1914	66.6	+2.0	98	31	1.47	−3.40	3.00	0	5	17	9	5
1915	63.7	−1.4	97	30	7.86	+3.04	7.10	0	12	12	7	12
1916	65.6	+0.7	96	33	5.61	+0.89	4.10	0	11	15	8	8
1917	58.7	−6.2	91	30	4.33	−0.47	2.60	0	10	15	7	9
1918	68.3	+3.8	100	28	5.49	+0.68	5.25	0	10	16	8	7
1919	62.0	−2.5	93	35	5 80	+0.87	4.50	0	13	10	10	11
1920	63.8	−0.8	97	32	4.85	+0.04	3.70	0	12	9	9	13
1921	66 4	+2.0	102	28	3.69	−1 20	4.12	0	7	17	8	6
1922	67.2	+2.3	97	38	3.17	−1.77	2.50	0	10	14	10	7
1923	62.7	−1.9	97	25	4.59	−0.49	3.48	T.	12	11	10	10
1924	58.6	−6.0	96	31	4.67	−0.03	3.90	0	10	13	8	10
1925	61.2	−3.4	98	24	2.14	−2.56	2.86	0	7	14	9	8

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Climatological Data for May, 1925.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	59.7	− 4.6	93	21	34	25	45	3.44	−1.45	2.04	0	5	22	0	9	nw.	O. K. Benecke
Clifton Hill	Randolph	731	26	59.3	− 4.9	90	31	30	25	42	2.23	−2.91	0.66	0	8	11	14	6	......	Dr. A. J. Bradsher
Columbia	Boone	748	35	60.6	− 3.7	92	22	33	25	36	3.56	−1.30	2.14	0	9	10	9	12	s.	U. S. Weather Bureau
Downing	Schuyler	878	4	59.4	......	92	21†	33	18†	35	0.60	−3.81	0.19	0	6	19	5	7	s.	E. E. St. Clair
Fayette	Howard	661	45	59.4	− 4.9	90	22	31	25	47	4.22	−0.40	2.86	0	5	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	37	61.0ᵇ	− 4.0	94	22	32	25	40	1.78	−2.99	0.70	0	6	19ᵃ	10ᵃ	1ᵃ	......	Chamber of Commerce
Gorin	Scotland	700	38	....	......	..	..	..	..	..	1.73	−2.88	1.29	0	7	11	11	9	sw.	J. W. Pulliam
Hannibal	Marion	534	33	60.6	− 3.0	96	21	34	25	33	2.84	−2.16	1.70	0	9	14	11	6	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	37	60.5	− 4.4	91	30†	34	25	42	1.64	−2.91	0.62	0	5	19	9	3	n.	Miss Emma Swift
Kirksville	Adair	969	36	58.8ᵃ	− 3.7	95	21	31	25	42	1.96	−3.25	1.37	0	6	14	5	12	sw.	Prof. J. S. Stokes
Louisiana	Pike	469	31	59.3ᵃ	− 4.5	96	21	26	25	44	1.38	−3.18	0.68	0	6	23ᵃ	4ᵃ	3ᵃ	w.	J. T. Farrell
Macon	Macon	875	26	59.8	− 4.1	94	21	31	25	42	3.60	−0.97	2.60	0	5	15	11	5	s.	W. C. Brown
Mexico	Audrain	800	36	60.6	− 3.7	93	21	30	25	39	3.71	−1.05	2.73	0	7	18	0	13	w.	Mrs. Abbie Snoddy
St. Catharine	Linn	800	14	59.2	− 3.3	89	21†	33	2	34	2.41	−2.29	0.78	0	10	10	16	5	s.	L. D. Baker
St. Charles	St. Charles	456	37	62.2	− 0.8	95	21	32	25	42	1.12	−3.06	0.50	0	3	10	16	5	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	63.3	− 3.7	94	22	38	25	30	1.48	−2.76	0.85	0	4	14	12	5	sw.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	62.8	− 3.3	94	22	37	25	28	1.42	−2.82	0.70	0	6	17	8	6	se.	St. Louis University
Shelbina	Shelby	779	32	...	......	..	..	..	..	..	3.70	−1.28	2.24	0	7	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	27	60.4	− 3.7	95	21	30	25	35	3.00	−1.95	1.45	0	5	15	13	3	s	Frank Hall
Unionville	Putnam	1,062	32	58 8	− 3.6	94	21	24	2	38	1.75	−3.21	0.80	0	5	11	8	12	s.	Geo. W. Davis
Warrenton	Warren	816	43	61.4	− 3.6	93	21	29	25	40	1.37	−3.42	0.61	0	5	11	14	6	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	60.3	− 3.5	93	22	35	25	32	1.28	−2.97	1.09	0	7	15	10	6	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	60.4	− 3.7	96	21	24	2	47	2.28	−2.41	2.86	0	6	15	9	7	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	29	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	....
Doniphan	Ripley	344	21	64.3	− 2.6	94	22	37	25	41	0.69	−3.47	0.43	0	4	10	16	5	n.	W.W. Martin
Jackson	Cape Girardeau	428	34	62.2	− 3.6	96	22†	33	25	46	0.82	−3.54	0.26	0	6	1	12	18	n.	John G. Putz
Marble Hill	Bollinger	470	30	63.3	− 2.4	95	31	34	25	43	0 89	−3.34	0.35	0	4	11	15	5	n.	R.A. DeWitt
Parma	New Madrid	281	4	....	......	..	..	..	..	..	0.51	......	0.40	0	2	..	..	..	......	J.E. Pearce
Patton (near)	Bollinger	500	16	....	......	..	..	..	..	..	0.60	......	0.40	0	2	..	..	..	.....	George F. Ellis.
Poplar Bluff	Butler	329	21	65.9	− 2.1	98	21	35	24	51	0.54	−4.49	0.25	0	4	19	5	7	s.	J. H. Wolpers
Vanduser	Scott	304	24	....	......	..	..	..	..	..	0.63	−3.53	0.23	0	4	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	50	64.8	− 3.6	95	22	39	25	36	0.86	−2.97	0.36	0	7	10	11	10	n.	U. S. Weather Bureau
Section means and	extremes	....	..	64.1	− 2.9	98	21	33	25	51	0.69	−3.56	0.43	0	4	10	12	9	n.	
Ozark Plateau.																				
Arcadia	Iron	926	44	58.7	− 5.9	91	22	33	12†	38	3.03	−1.75	1.28	0	7	19	1	11	se.	Arcadia College
Birchtree	Shannon	1,000	30	63.5	− 1.7	92	22	33	25	37	1.20	−3.11	0.45	0	6	21	4	6	n.	V. H. Kirkendall
Bolivar	Polk	1,071	31	62.3	− 2.6	92	22	35	25	38	2.18	−3.24	0.70	0	7	14	10	7	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	..	..	..	..	..	1.14	−4.82	0.71	0	5	21	5	5	e.	H. E. Dean
Eldon	Miller	934	29	62.4ᵇ	− 2.1	98	23	31	25	40	2.89	−1.97	0.75	0	9	8ᵇ	15ᵇ	6ᵇ	s.	E. H. Shepherd
Farmington	St. Francois	918	14	61.2	− 2.6	97	22	31	25	42	2.86	−2.64	1.30	0	9	15	11	5	ne.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	61.3	− 4.0	91	22	31	25	40	2.49	−2.05	1.41	0	8	17	8	6	se.	A. C. Leach
Goodland	Iron	1,000	31	60.6	− 3.9	93	22	30	25	43	2.87	−1.75	1.30	0	5	19	5	7	s.	F. M Adams
Greenville	Wayne	381	3	62.6	......	93	21†	33	26	46	0.58	......	0.21	0	5	20	4	7	s.	Wm. P. Owens
Hailey	Barry	1,350	0	....	......	..	..	..	..	..	1.85	......	0.78	0	8	20	5	6	e.	A. W. Madison
Hollister	Taney	735	38	59.8	− 7.5	93	31	33	25	50	0.70	−3.53	0.60	0	2	17	7	6	sw.	Mrs. W. P. Chapman
Houston	Texas	1,280	30	61.6ᵃ	− 3.3	92	22	32	19	44	2.36	−1.73	1.24	0	8	14	5	11	nw.	Hugh Stone
Koshkonong	Oregon	958	24	64.0ᵇ	− 2.8	92	22†	35	25	33	1.00	−3.84	0.39	0	6	14ᵇ	11ᵇ	4ᵇ	nw.	R. M. Hitt
Lebanon	Laclede	1,265	37	60.0	− 5.6	91	21†	30	25	47	3.20	−2.41	0.95	0	10	13	7	11	n.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	62.1	− 2.5	89	21	35	25	36	2.78	−2.30	1.20	0	4	18	4	9	ne.	C. S. Crow
Mountain Grove	Wright	1,463	24	61.8	− 3.1	90	22†	31	25	40	1.83	−3.02	0.55	0	9	13	11	7	sw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	63.2	− 3.0	90	30	30	1	43	1.53	−4.54	0.90	0	9	16	10	5	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	62.2	− 2.3	92	21	32	25	10	4.03	−0.98	1.86	0	7	19	7	5	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	60.0ᵈ	− 4.9	85	21	34	1	32	2.23	−3.36	1.04	0	6	16ᵈ	3ᵈ	8ᵈ	se.	Floyd E. Fawver
Seymour (near)	Webster	1,612	19	60.4	− 3.7	87	22	31	26	38	1.71	−3.99	0.38	0	7	18	7	6	s.	Ira H. Hailey
Springfield	Greene	1,350	37	61.2	− 3.3	88	22	35	25	32	2.82	−2.73	0.84	0	8	18	8	5	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	61.5	− 3.4	98	23	30	1†	47	2.20	−2.50	1.86	0	7	17	7	7	s.	
Southwest Plain.																				
Amoret	Bates	831	18	61.4	− 2.1	90	21†	32	2†	40	2.13	−2.69	0.81	0	8	17	4	10	ne.	Andrew Rood
Appleton City	St. Clair	853	31	62.5	− 2.6	90	21†	36	25	36	1.82	−3.72	0.56	0	8	9	19	3	ne.	W. G. Bigelow
Clinton	Henry	765	32	63.8	− 1.4	94	30	35	25	39	2.54	−2.90	0.60	0	13	13	12	6	ne.	A. E. Derwent, M. D
Harrisonville	Cass	904	18	60.0	− 4.0	89	21†	35	25	39	2.39	−2.42	0.64	0	9	7	1	23	e.	John H. Patterson
Lamar	Barton	980	38	61.9	− 4.0	90	22†	36	2†	40	3.52	−1.94	0.91	0	10	16	7	8	sw.	Jesse A. Mann
Lamonte	Pettis	867	24	61.6	− 3.1	92	21†	31	25	43	3.76	−1.19	0 90	0	12	18	6	7	se.	J. E. Wheeler
Marshall	Saline	779	36	62.0ᶜ	− 2.1	95	21	32	25	39	2.21	−2.65	0.59	0	10	9ᵇ	9ᵇ	11ᵇ	ne.	Dr. W. H. Black
Nevada	Vernon	862	32	61 1	− 3.5	89	22	34	25	35	2.76	−2.96	0 63	0	6	18	5	8	s.	George A. Kaupp
Warrensburg	Johnson	878	38	61.5	− 3.8	90	22	35	25	34	3.53	−1.13	0.85	0	12	11	13	7	sw.	L. B. Johnston
Warsaw	Benton	687	25	62.5	− 3.3	92	30	31	25	41	2.38	−2.85	1.07	0	10	13	11	7	w.	Everett Martin
Section means and	extremes	.....	..	61.9	− 2.8	95	21	31	25	41	2.59	−2.58	1.07	0	9	13	9	9	ne.	
Northwest Plateau.																				
Avalon	Livingston	730	35	60.2	− 3.3	90	22	32	25	36	1.25	−3.78	0.75	0	3	7	20	4	nw.	F. G. Ashbaugh
Bethany	Harrison	916	33	62.0ᵍ	− 0.6	93	21	30	25	38	0.87	−4.11	0.52	..	4	10ᵍ	9ᵍ	5ᵍ	sw.	Owen Ross
Chillicothe	Livingston	779	16	58.6	− 8.5	91	21†	31	25	34	2.21	−2.50	1.00	0	6	15	9	7	e.	Wm. J. Olenhouse
Conception	Nodaway	980	36	61.0	− 1.0	95	22	36	2	35	1.66	−3.11	0.79	0	4	8	16	7	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	60.2	......	89	22	31	2	37	4.17	−1.28	1.20	0	12	22	2	7	s.	Fred L. Stiff
Grant City	Worth	1,134	21	59.0ᵃ	− 3.1	96	22	31	25	40	1.55	−3.18	1.30	0	2	14ᵃ	14ᵃ	2ᵃ	s.	B. F. Locke
Kansas City	Jackson	963	36	62.0	− 2.8	92	22	39	25	28	5.49	+0.38	2.10	0	14	12	8	11	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	58.8	− 3.3	91	22	30	25	41	2 38	−2.83	1.25	0	6	14	8	9	nw.	Linn Terry
Lexington	Lafayette	688	40	61.8	− 2.6	91	21	33	25	34	3.60	−1.46	1.14	0	14	11	13	7	n.	Edwin G. Loomis
Liberty	Clay	859	35	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	....	....
Maryville	Nodaway	1,169	35	60.2	− 0.9	94	22	33	6	36	0.70	−5.05	0.56	0	2	20	3	8	n.	J. R. Brink
Oregon ††	Holt	1,048	69	60.0	− 3.2	95	22	36	1†	33	2.59	−2.27	1.52	0	4	17	5	9	sw.	Tom Curry
St. Joseph	Buchanan	967	17	61.4	− 2.5	94	22	36	25	32	3.96	−0 65	2.18	0	12	14	11	6	se.	U. S. Weather Bureau
Tarkio	Atchison	916	22	60.9	− 2.4	95	22	32	25	37	1.55	−3.11	0.78	0	4	14	10	7	se.	Albert Volker
Trenton	Grundy	822	29	58.8	− 5 0	89	22	35	25	34	2.26	−3.08	1.22	0	7	15	10	6	n.	W. H. Estes
Section means and	extremes	.....	..	60.4	− 3.0	96	22	30	25	41	2.52	−2.50	2.18	0	7	15	9	7	s.	
State means and	extremes	.....	..	61.2	− 3.4	98	21†	24	2	51	2.14	−2.56	2.86	0	7	14	9	8	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ᵃ, ᵇ, ᶜ, appearing in the table indicate number of days missing; for example, ᵇ, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for May, 1925.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	....	....	....	.05	....	....	....	....	.40	....	....	....	T.	.38	....	3.00	....	T.	....	....	....	....	....	....	....	....	....	.15	.25	....	....	4.23
Brunswick‖	Grand	....	....	....	....	....	....	....	....	.45	....	....	....	....	.40	....	2.04	....	....	....	....	....	....	....	....	....	....	....	.07	.48	....	....	3.44
Clifton Hill	Chariton	....	....	....	....	....	....	....	.30	.02	....	....	....	.30	....	.62	.66	....	....	....	T.	....	....	....	....	....	....	.05	.15	.13	....	T.	2.23
Columbia***	Missouri	T.	....	.01	T.	T.	T.	....	.61	T.	.02	....	....	.19	....	2.14	....	T.	T.	....	.14	....	....	....	T.	....	....	.05	.39	.01	....	....	3.56
Downing	Mississippi	....	....	....	....	....	....	.06	....	....	....	....	....	....	....	.15	.12	....	....	....	....	....	....	....	.03	....	....	.19	....	....	....	.05	0.60
Fayette‖‖	Missouri	....	....	T.	T.	T.	T.	....	.75	....	....	....	....	.30	....	2.86	....	....	....	....	....	....	....	....	....	....	.05	....	.26	....	....	T.	4.22
Fulton‖	....do	....	.05	....	....	....	....	....	....	.70	.10	....	....	....	.20	....	.60	....	....	....	....	....	....	....	....	....	....	....	....	.13	....	....	1.78
Gorin	Mississippi	....	....	....	....	....	....	....	.01	....	....	....	....	....	....	.03	1.29	....	....	....	.18	....	....	....	.02	....	....	.16	....	....	.04	....	1.73
Hannibal***	....do	....	....	T.	....	....	....	....	.55	.01	....	....	....	.10	....	.84	.86	....	....	....	....	....	....	....	.01	....	....	03	.07	.37	....	....	2.84
Hermann‖	Missouri	....	.01	....	.03	....	....	....	....	.30	.05	....	....	....	.25	....	.70	....	T.	....	....	T.	....	....	....	....	....	....	T.	T.	T.	.18	1.52
Jefferson City‖	....do	....	....	....	....	....	....	.10	.40	....	....	....	....	....	.47	....	.62	....	....	....	....	....	....	....	....	....	....	....	.05	....	....	....	1.64
Kirksville	Mississippi	....	....	....	....	....	....	....	.14	....	....	....	....	....	.16	.02	1.37	....	....	....	....	....	....	....	.08	....	....	....	....	....	....	.19	1.96
Louisiana	....do	....	....	....	....	....	....	....	.12	.13	....	....	....	.03	....	.02	.68	....	....	....	....	....	....	....	T.	....	....	....	....	.40	....	....	1.38
Macon ‖	Chariton	....	....	....	....	....	....	....	....	.30	....	....	....	.20	....	....	2.60	....	....	....	.20	....	....	....	....	T.	....	T.	....	.30	....	....	3.60
Mexico ‖	Mississippi	T.	....	....	T.	T.	....	....	....	.65	....	....	....	....	.27	....	2.73	....	T.	....	....	.02	....	....	....	....	....	.01	.01	.02	T.	....	3.71
Milan‖	Grand	....	....	....	....	T.	....	....	....	.12	....	....	....	.10	....	....	1.40	.15	....	....	.17	....	....	....	....	....	....	.10	....	....	....	....	2.04
Pacific‖	Meramec	....	.07	....	....	....	....	....	....	.65	.02	....	....	....	.14	....	1.05	....	....	....	....	....	....	....	T.	....	....	....	....	.06	....	.15	2.14
St. Catharine	Grand	....	....	....	....	T.	....	....	.15	.02	....	....	....	.25	....	.48	.78	....	....	....	.02	....	....	....	....	....	....	.12	.03	.41	....	.15	2.41
St Charles	Missouri	....	....	....	....	....	....	....	T.	.50	....	....	....	T.	....	....	.50	....	....	....	....	....	....	....	....	....	....	....	....	.12	....	....	1.12
St Louis (1)***	Mississippi	T.	....	T.	....	T.	....	....	.35	.10	T.	....	....	T.	....	....	.85	....	....	....	....	....	....	T.	T.	....	....	T.	....	.18	....	....	1.48
St. Louis (2)	....do	T.	....	.01	....	....	....	....	.38	.10	....	....	....	.01	....	....	.70	....	....	....	....	....	....	T.	....	....	....	T.	....	.22	....	....	1.42
Shelbina ‖‖	....do	....	....	....	....	....	....	....	....	.57	....	....	....	....	.27	....	2.24	....	....	....	....	....	....	....	....	.08	....	.02	.01	.51	....	....	3.70
Steffenville	....do	....	....	....	....	....	....	....	.55	....	....	....	....	.10	....	.65	1.45	....	....	....	T.	....	....	....	T.	....	....	T.	....	.25	....	....	3.00
Union‖	Meramec	....	....	....	.05	....	....	....	....	.64	.05	....	....	....	.22	....	1.23	....	....	....	....	....	....	....	.02	.02	....	....	....	.05	....	.03	2.31
Unionville	Chariton	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	.30	.35	....	....	....	.80	....	....	....	....	....	....	.15	....	....	....	.15	1.75
Valley Park‖‖	Meramec	T.	T.	T.	T.	....	....	....	....	.52	.07	T.	....	....	.09	....	1.18	T.	....	....	....	....	....	....	....	T.	....	....	....	.01	....	....	1.87
Warrenton	Mississippi	....	.02	....	....	....	....	....	.03	.61	....	....	....	.19	....	T.	.52	....	....	....	....	....	....	....	T.	....	....	T.	....	T.	....	....	1.37
Keokuk, Ia.***	....do	....	.01	.02	....	....	....	T.	.01	T.	....	....	....	....	....	.57	.52	....	....	....	T.	....	....	....	T.	....	....	.11	T.	....	.04	....	1.28
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi	....	....	....	.14	....	....	.09	.02	.10	.03	....	....	....	.01	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.39
Caruthersville	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Doniphan	Black	....	....	....	.14	....	....	....	....	....	....	....	....	.43	....	....	....	.08	....	....	....	....	....	....	....	....	....	....	....	....	....	.04	0.69
Jackson	Mississippi	....	....	....	.21	....	....	.10	....	.07	....	....	....	.03	....	....	....	....	....	....	....	....	....	....	.26	....	....	....	....	....	....	.15	0.82
Marble Hill	Mississippi	....	....	....	.35	....	....	.10	....	....	.12	....	....	.32	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	0.89
New Madrid‖	....do	....	.01	.01	.20	....	....	....	.01	.02	.40	.15	....	....	....	....	....	.01	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.81
Parma	St. Francis	....	....	....	....	....	....	....	....	.11	....	.40	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.51
Patton (near)	Mississippi	....	....	....	....	....	.20	....	....	.40	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	0.60
Poplar Bluff	Black	....	....	.25	....	....	....	.08	....	.16	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.54
Vanduser	Mississippi	....	....	....	.14	....	....	.14	....	.23	....	....	....	.12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0.63
Cairo, Ill.***	....do	T.	.02	T.	.21	....	....	.06	.20	.11	.25	....	....	T.	....	....	T.	T.	....	....	....	.01	....	....	....	....	....	....	....	T.	....	T.	0.86
Ozark Plateau.																																	
Annapolis‖	St. Francis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Arcadia ‖	....do	....	....	....	.10	....	....	.24	.06	1.08	.12	T.	....	.15	....	....	....	....	....	....	....	....	....	....	1.28	....	....	....	....	....	T.	....	3.03
Birchtree	Black	....	....	....	.18	....	....	....	.09	.09	....	....	....	.35	....	....	....	....	....	....	....	.45	....	....	.04	....	....	....	....	....	....	....	1.20
Bolivar	Osage	....	....	....	.46	....	....	.02	....	.10	.70	....	....	.43	....	....	.10	....	....	....	....	....	....	....	.37	....	....	....	....	....	....	....	2.18
Dean	Neosho	....	....	....	....	....	....	T.	.17	.21	....	....	....	....	....	....	....	T.	....	....	.03	....	....	....	.71	....	....	.02	....	....	....	....	1.14
De Soto‖‖	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Eldon	Missouri	....	....	....	.40	....	....	.50	....	.35	....	....	....	.38	....	.13	.75	....	....	....	.10	....	....	....	....	....	....	....	....	.26	.02	....	2.89
Farmington	St. Francis	....	.06	....	.04	.02	....	.22	.08	.93	....	....	....	.02	.19	....	....	....	....	....	....	....	....	....	1.30	....	....	....	....	T.	....	....	2.86
Fredericktown‖‖	.... do	....	....	....	....	....	....	.45	....	....	.37	....	....	....	.19	....	....	....	....	....	....	.32	....	....	.91	....	....	....	....	....	....	....	2.24
Galena‖‖	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.50	....	....	....	.20	....	....	....	0.70
Gano	Meramec	....	....	....	.05	....	....	.35	.08	1.41	.05	....	....	.03	....	....	....	....	....	....	T.	....	....	.04	.48	....	....	....	....	....	....	....	2.49
Goodland	Black	....	....	....	....	....	....	.31	.05	1.30	....	....	....	.41	....	....	....	....	....	....	....	....	....	....	.80	....	....	....	....	....	....	....	2.87
Greenville	St. Francis	....	....	....	.18	....	....	.01	T.	.11	....	....	....	.21	....	....	....	....	....	....	....	....	....	....	.07	....	....	....	....	....	....	T.	0.58
Hailey	White	....	....	.11	.04	....	....	....	.11	.06	....	....	....	.54	....	....	....	....	....	....	....	....	....	....	.78	....	....	.20	.01	....	....	....	1.85
Hollister	.... do	....	....	....	....	....	....	....	0.60	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.10	....	0.70
Houston	Gasconade	....	....	....	.40	....	....	.08	.02	.26	.04	....	....	.28	....	....	....	....	....	....	....	....	....	....	1.24	....	....	....	....	....	.04	....	2.36
Jerome ‖	.... do	....	....	.10	.07	....	....	.38	05	.60	.03	.03	....	....	.12	....	.72	....	....	....	....	....	....	....	1.37	....	....	....	.02	....	....	....	3.49
Koshkonong	Black	....	....	.18	.05	....	....	....	.08	.05	T.	....	....	.25	....	....	....	....	....	....	....	....	....	....	.39	....	....	....	....	....	....	....	1.00
Lebanon ‖	Osage	....	....	.05	.48	....	....	.06	.08	.95	.75	.04	....	....	.14	....	.40	....	T.	....	....	....	....	....	.25	....	....	....	....	....	....	....	3.20
Lockwood	....do	....	....	....	.46	....	....	....	.10	T.	T.	....	....	1.02	....	....	....	....	....	....	T.	....	....	....	1.20	....	....	T.	....	....	....	....	2.78
Mountain Grove‖	White	....	....	.07	.31	....	....	T.	.20	.30	01	....	....	.55	....	T.	....	T.	T.	....	....	....	....	....	.28	....	....	T.	T.	....	.07	.04	1.83
Neosho	Neosho	....	.03	....	....	....	....	T.	.08	.10	.11	....	....	.12	....	....	....	....	T.	....	.04	T.	....	....	.90	....	....	.10	.05	....	....	T.	1.53
Rolla	Meramec	....	....	.10	....	....	.54	.08	.57	.04	....	....	....	T.	....	.84	....	....	....	....	....	....	....	1.86	....	....	....	....	....	....	....	....	4.03
Seligman	Neosho	....	....	....	....	....	....	....	.10	.50	.07	....	....	1.04	.04	....	....	....	....	....	....	....	....	....	.48	....	....	....	....	....	....	....	2.23
Seymour (near)	White	....	....	.16	.38	....	....	T.	.22	.33	T.	....	....	.28	....	....	....	....	T.	....	....	....	....	....	.32	....	....	....	T.	....	.02	T.	1.71
Springfield***	....do	....	....	.43	.02	....	....	.01	.13	.80	....	....	....	.80	T.	....	....	T.	T.	....	....	....	....	.60	T.	....	....	.03	T.	....	T.	....	2.82
Steelville‖	Meramec	....	....	....	.09	....	....	.48	.10	.63	.16	....	....	....	.33	....	.72	....	....	....	....	....	....	....	1.20	....	....	....	....	....	04	....	3.75
Tuscumbia ‖	Osage	....	....	....	.11	....	....	.42	.01	.85	.07	....	....	....	.29	....	.66	....	....	....	....	.09	....	....	.02	....	....	....	....	.03	.06	....	2.61
Willow Sprgs.‖‖ (near)	White	....	....	.23	.20	....	T.	....	.11	.27	....	....	....	.05	.15	....	....	....	....	....	....	....	....	....	.28	....	....	....	T.	....	....	.33	1.62
Southwest Plain.																																	
Amoret	Osage	....	....	.70	....	....	....	.02	.81	.03	....	....	....	....	....	.31	....	....	....	....	.06	....	....	.09	....	....	....	.11	....	....	....	....	2.13
Appleton City	....do	....	....	.14	.45	....	....	T.	.56	.09	....	....	....	.39	....	.10	....	T.	....	....	T.	....	....	.07	....	....	....	.02	....	....	....	T.	1.82
Clinton	....do	....	....	....	.30	....	....	.10	.60	.10	02	....	....	.38	....	.20	.18	....	....	....	.15	....	....	....	.10	....	....	.08	.08	.25	....	....	2.54
Harrisonville‖	....do	....	....	....	.16	....	....	.07	....	.64	.03	....	....	.62	....	....	.16	....	....	....	.10	....	....	....	....	....	....	.01	....	.60	....	....	2.39
Joplin*	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lamar‖	....do	....	....	.07	.33	....	....	....	.19	.50	.61	....	....	....	.05	....	.71	....	T.	....	....	....	....	....	.91	....	....	.04	.11	....	....	....	3.52
Lamonte	Missouri	....	....	15	.10	....	....	.50	.62	.08	....	....	....	.75	....	.90	.02	....	....	....	.04	....	....	....	....	....	....	.08	.30	.22	....	....	3.76
Marshall	.... do	....	....	....	.01	....	....	T.	.59	.05	....	....	....	.32	....	.05	.45	.05	....	....	....	....	....	....	T.	....	....	.07	T.	.52	T.	.10	2.21
Nevada	Osage	....	....	....	.50	....	....	....	T.	.24	....	....	....	.50	....	....	.27	....	.62	....	....	....	....	.63	....	....	....	....	....	....	....	....	2.76
Osceola‖‖	....do	....	....	....	.55	....	....	.10	....	.62	....	....	....	.55	....	....	.57	....	....	....	.07	....	....	....	.11	....	....	.03	....	....	....	....	2.60
Warrensburg	Missouri	....	....	T.	.11	....	T.	.39	62	.15	T.	....	....	.85	....	.76	.03	....	....	....	.01	....	....	T.	....	....	....	.03	.31	.25	.02	T.	3.53
Warsaw	Osage	....	....	....	.27	....	....	.10	.35	.06	T.	....	....	.33	....	T.	1.07	....	....	....	....	....	....	....	.07	....	....	.05	.03	.05	....	....	2.38
Waverly ‖	Missouri	....	....	....	T.	T	T.	T.	T.	.75	T.	....	....	.33	.25	....	1.26	....	....	....	.08	....	....	....	....	T.	....	.05	T	.64	....	....	3.36
Northwest Plateau.																																	
Albany‖‖	Grand	....	....	....	....	....	....	....	T.	.13	....	....	....	.49	....	....	1.13	....	....	....	....	....	....	....	....	....	.22	....	....	....	....	....	1.97
Avalon	....do	....	....	....	....	....	....	....	....	....	....	....	.75	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.35	....	.15	....	....	1.25
Bethany	....do	....	....	....	....	....	....	....	.12	T.	....	....	....	....	....	.52	....	....	....	....	....	....	....	....	....	....	....	.11	T.	....	....	.12	0.87
Chillicothe‖‖	....do	....	....	....	T.	T.	....	....	....	.26	.01	....	....	.52	T.	....	1.00	....	....	....	....	....	....	....	....	....	....	.12	....	.30	....	....	2.21
Conception	Missouri	....	....	....	T.	T.	T.	T.	.11	T.	....	....	....	.63	....	.79	T.	....	T.	....	....	....	T.	....	....	....	....	.13	T.	....	....	....	1.66
Edgerton	....do	....	....	.45	....	....	T	.14	.36	.05	....	....	....	.70	....	.51	.06	....	....	....	.23	....	....	....	....	....	....	.14	1.20	.24	....	.09	4.17
Gallatin ‖	Grand	....	....	....	....	....	....	....	....	.10	....	....	....	.20	.05	....	1.83	....	....	....	....	....	....	....	....	....	....	T.	....	.20	....	....	2.38
Grant City	.... do	....	....	T.	T.	....	T	....	T.	....	....	....	....	T.	....	1.30	.25	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	1.55
Kansas City***	Missouri	....	.01	.02	....	....	.09	.29	.41	.23	....	....	.02	2.08	....	.77	T.	T.	....	....	.19	....	....	T.	....	....	....	.09	.90	.35	....	.04	5.49
Kidder ‖	Grand	....	....	....	....	....	....	....	....	28	....	....	....	.30	.14	....	1.25	....	....	....	....	....	....	....	....	....	....	.03	....	.38	....	....	2.38
Lexington ‖	Missouri	....	....	.01	.05	....	....	.13	....	.65	.10	....	....	.70	.08	....	1.14	.05	.02	....	.01	....	....	....	....	....	....	.04	....	.50	.12	....	3.60
Liberty	....do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Maryville	....do	....	....	....	....	....	....	....	....	T.	....	....	T.	.56	....	....	....	....	....	....	....	....	....	....	....	....	....	.14	....	....	....	....	0.70
Oregon	....do	....	....	....	....	....	....	.48	....	....	....	....	1.52	....	....	....	....	....	....	....	.47	....	....	....	....	....	....	.12	....	....	....	....	2.59
St. Joseph***	....do	....	T	T.	....	....	....	.25	.03	.17	T.	....	.04	.70	....	2.12	.06	....	....	....	.16	....	....	....	....	....	....	.04	.27	.08	....	.04	3.96
Tarkio	....do	....	....	....	....	....	....	....	....	T.	....	....	....	.78	....	.25	.47	....	....	....	....	....	....	....	....	....	....	.05	....	....	....	....	1.55
Trenton	Grand	....	....	T.	T.	T.	....	....	....	.16	T.	....	....	.07	....	.35	1.22	....	T.	....	T.	....	....	....	....	T.	....	.09	.04	....	....	.33	2.26

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for May, 1925.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	54	69	77	67	62	61	65	64	63	75	69	78	75	80	74	67	50	60	76	87	93	92	87	55	57	70	73	80	84	91	91	72.5
	Minimum	37	36	35	49	45	39	39	45	45	52	42	41	42	52	52	53	45	45	40	42	58	64	66	52	34	35	42	51	52	62	63	46.9
Columbia	Maximum	62	66	74	64	61	60	62	65	64	72	63	73	70	76	77	71	49	57	73	83	91	92	80	70	61	66	68	80	79	89	91	71.3
	Minimum	38	36	54	50	43	37	47	51	52	56	45	42	55	49	56	49	45	44	37	57	64	67	67	36	33	44	49	52	63	64	67	50.0
Fayette	Maximum	64	66	76	68	62	60	63	65	65	71	70	73	74	79	77	70	66	63	76	86	71	90	82	70	67	70	72	79	83	89	89	72.8
	Minimum	40	32	35	47	44	39	40	45	48	52	42	36	38	46	50	56	44	44	35	39	57	64	63	53	31	33	42	48	55	61	65	45.9
Hannibal	Maximum	60	66	74	62	58	58	64	65	62	73	64	73	66	75	81	74	50	61	72	84	96	93	85	72	62	63	69	77	79	87	91	71.5
	Minimum	38	36	50	50	43	39	37	48	53	54	45	40	53	50	50	50	44	45	41	56	65	68	69	41	34	44	50	51	63	65	69	49.7
Jefferson City §§	Maximum	63	70	62	65	63	63	60	60	66	72	65	73	70	77	78	75	50	56	76	84	90	90	85	61	62	70	68	82	83	91	91	71.6
	Minimum	41	38	51	50	47	39	45	47	51	53	45	41	49	50	53	59	46	44	35	42	61	65	65	60	34	40	46	52	55	60	66	49.4
Kirksville	Maximum	63	66	75	69	60	60	65	60	60	71	67	76	..	73	69	66	50	64	70	83	95	91	88	75	65	65	72	72	83	89	90	[a]71.7
	Minimum	38	37	49	44	41	34	36	45	49	45	37	41	..	46	48	48	39	38	40	41	62	63	65	39	31	34	48	56	55	62	[illegible]	[a]45.9
Louisiana	Maximum	64	77	77	72	63	62	68	70	60	61	76	76	74	79	84	76	60	65	75	88	96	92	92	82	64	70	74	84	86	95	..	[a]75.4
	Minimum	35	32	38	48	35	38	35	38	48	46	44	32	42	43	52	58	52	45	34	42	46	42	55	45	26	35	42	45	63	60	..	[a]43.2
Macon §§	Maximum	65	69	78	66	64	67	67	66	61	73	67	76	72	76	78	70	49	67	74	82	94	92	88	61	73	67	73	78	82	91	91	73.5
	Minimum	36	37	40	45	41	34	36	43	47	52	38	41	48	48	49	52	42	42	42	45	55	65	65	50	31	38	41	50	53	60	61	46.0
Mexico §§	Maximum	62	69	78	66	64	63	61	70	64	73	65	75	67	75	81	75	48	57	75	84	93	92	81	61	62	68	72	82	83	92	92	72.6
	Minimum	39	36	45	49	44	39	44	45	51	53	43	39	49	49	51	57	44	45	38	45	57	65	65	55	30	37	48	50	60	64	67	48.5
St. Catharine	Maximum	63	67	75	69	61	59	63	60	60	72	69	71	71	74	73	66	51	58	70	84	89	89	85	78	62	65	69	72	78	86	82	70.7
	Minimum	38	33	46	42	41	35	37	44	50	44	36	43	53	50	54	50	41	44	38	54	63	66	65	41	34	41	58	51	60	62	65	47.7
St. Louis (1)	Maximum	64	66	76	65	65	63	61	66	61	72	65	71	73	78	80	83	56	65	74	81	92	94	89	71	63	66	69	81	78	87	91	73.1
	Minimum	44	45	54	54	50	45	51	52	54	58	48	48	55	55	56	56	48	46	50	58	67	71	71	41	38	43	49	57	64	63	69	53.5
Unionville	Maximum	60	65	74	70	60	68	65	60	60	73	66	72	80	76	72	62	48	64	74	86	94	92	86	78	66	67	72	72	84	90	89	72.4
	Minimum	35	24	48	42	40	32	38	42	46	45	32	40	52	48	50	46	40	32	44	52	64	66	63	40	30	35	48	50	52	60	65	45.2
Warrenton	Maximum	63	67	76	68	64	61	63	66	61	72	71	73	70	78	80	81	63	59	75	84	93	92	87	81	63	67	69	82	82	89	91	73.9
	Minimum	38	38	49	49	44	37	44	47	51	55	43	41	50	49	50	59	45	45	43	53	62	66	69	41	29	38	45	52	61	61	64	49.0
Southeast Lowlands.																																	
Caruthersville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Doniphan	Maximum	68	71	80	70	72	71	63	70	81	75	71	77	73	80	87	90	83	61	79	84	93	94	93	90	69	71	79	84	90	91	93	79.1
	Minimum	42	40	48	43	40	41	51	50	51	51	59	44	44	51	46	66	56	52	40	44	56	58	64	59	37	38	38	52	52	59	61	49.5
Jackson	Maximum	66	69	78	71	69	69	67	65	72	72	72	75	75	82	85	91	87	67	77	83	95	96	96	93	62	68	75	85	85	90	96	78.5
	Minimum	42	38	43	51	41	35	45	48	53	59	54	37	40	40	45	63	52	49	41	42	55	65	66	47	33	38	37	48	58	57	59	47.8
Poplar Bluff	Maximum	69	73	83	74	75	75	66	71	84	80	75	79	69	85	87	93	83	65	82	89	98	97	94	86	69	74	80	88	90	95	94	81.4
	Minimum	39	46	57	42	39	49	50	54	62	58	43	42	49	46	66	57	52	42	43	54	59	60	58	35	38	38	49	55	59	59	62	50.4
Cairo, Ill.	Maximum	63	67	77	68	67	66	61	66	75	74	67	72	74	79	83	90	64	67	76	83	94	95	91	80	60	65	72	80	83	87	92	75.4
	Minimum	48	45	52	54	48	44	47	51	55	62	56	51	51	56	56	64	55	52	49	53	63	70	70	44	39	44	47	59	65	62	66	54.1
Ozark Plateau.																																	
Arcadia §§	Maximum	61	68	74	64	64	65	57	57	63	67	63	72	65	74	77	83	51	58	74	80	90	91	89	68	66	64	76	80	77	87	89	71.4
	Minimum	41	35	44	51	41	34	44	44	48	52	50	33	41	50	43	51	48	40	38	41	56	59	65	59	33	35	38	46	55	54	57	46.0
Birchtree	Maximum	65	69	79	75	69	68	59	61	75	70	69	74	69	77	81	82	72	59	76	77	90	92	91	85	64	69	74	80	87	88	90	75.4
	Minimum	40	38	50	51	42	45	48	49	51	60	48	46	49	59	56	69	50	49	39	41	56	69	64	51	33	40	44	64	64	67	68	51.6
Eldon	Maximum	74	75	80	65	65	66	..	..	70	74	66	74	75	78	88	75	54	58	76	85	93	96	98	75	62	70	77	84	83	90	90	[b]76.4
	Minimum	36	38	52	50	45	40	..	..	46	58	43	40	51	50	48	52	47	46	37	50	63	64	64	42	31	37	41	46	62	60	63	[b]48.3
Farmington	Maximum	67	70	68	66	67	67	65	63	64	70	66	78	80	78	85	84	70	60	76	85	95	97	92	77	64	66	72	84	80	92	92	75.5
	Minimum	35	40	48	44	46	38	44	47	52	57	50	37	50	44	47	52	48	44	40	47	57	64	61	40	31	37	38	42	58	56	60	47.0
Hollister	Maximum	65	64	82	72	70	70	72	75	72	72	74	76	78	80	86	84	70	61	78	80	90	88	90	81	65	62	72	78	80	90	93	76.5
	Minimum	34	38	36	50	38	39	44	50	45	48	50	48	50	52	46	48	45	46	36	38	40	40	50	40	33	34	35	39	40	50	55	43.1
Koshkonong	Maximum	66	69	79	68	59	69	64	68	78	73	70	75	69	80	84	86	..	79	75	81	90	92	89	80	64	70	76	..	88	91	92	[b]76.7
	Minimum	41	41	51	53	41	44	50	49	53	61	51	45	52	55	54	58	..	49	42	52	58	62	64	51	35	43	45	..	57	64	65	[b]51.2
Lebanon §§	Maximum	63	69	81	63	65	68	62	62	67	72	65	77	75	79	83	82	52	60	80	85	91	91	90	68	61	73	70	81	87	90	88	74.2
	Minimum	35	33	34	49	45	37	37	44	49	52	46	41	41	47	48	57	46	45	34	38	56	65	62	52	30	32	38	49	58	60	63	45.9
Mountain Grove §§	Maximum	64	70	78	72	66	68	59	59	73	72	69	73	74	75	79	85	78	55	76	83	89	90	90	81	62	69	69	72	86	86	86	74.5
	Minimum	36	34	50	50	41	38	44	47	51	57	50	43	52	51	55	66	46	46	36	53	59	62	61	49	31	33	45	55	58	63	62	49.2
Neosho	Maximum	63	72	84	83	74	68	69	68	76	72	69	77	78	78	86	85	66	68	80	78	88	87	89	84	62	72	72	78	86	90	87	77.1
	Minimum	30	35	42	52	41	40	52	52	54	58	54	42	55	47	57	58	49	51	37	48	60	58	56	53	37	34	47	53	55	57	60	49.2
Rolla	Maximum	63	69	78	68	65	65	62	62	63	73	68	75	74	80	82	79	64	54	78	85	92	91	89	82	66	71	71	82	82	89	89	74.5
	Minimum	42	39	52	50	46	37	45	40	50	55	48	43	52	52	52	60	48	46	38	54	60	67	66	44	32	41	46	51	61	60	65	49.8
Springfield	Maximum	60	68	77	61	61	65	62	59	68	69	63	72	71	74	82	77	53	60	74	78	87	88	87	64	57	67	62	72	82	85	85	70.7
	Minimum	37	44	53	51	46	45	47	50	54	59	51	49	53	52	61	52	47	47	42	55	64	67	60	40	35	45	51	58	62	65	65	51.8
Southwest Plain.																																	
Amoret	Maximum	63	72	80	77	65	67	60	57	61	73	71	76	77	80	86	83	62	67	76	86	90	90	83	65	68	71	67	80	88	89	87	74.7
	Minimum	36	32	45	47	42	35	46	51	53	52	45	38	51	48	53	51	45	46	36	52	59	73	62	49	32	34	49	48	58	58	64	48.1
Appleton City	Maximum	63	72	65	67	66	67	63	58	68	72	66	76	72	78	89	83	72	60	76	84	90	90	86	72	62	70	69	80	88	90	88	74.3
	Minimum	40	39	49	49	46	40	47	52	54	57	50	44	54	53	58	42	37	46	40	55	64	68	64	47	36	42	52	56	61	65	65	50.7
Clinton	Maximum	67	74	84	72	70	70	72	69	72	79	75	79	76	82	83	80	62	67	75	87	92	92	87	73	69	76	72	87	88	94	90	77.9
	Minimum	37	36	50	48	45	38	50	50	52	56	44	41	54	52	55	54	45	45	38	55	62	66	63	48	35	37	50	55	60	62	60	49.8
Harrisonville §§	Maximum	66	70	81	68	66	67	58	55	58	72	62	74	72	76	77	64	50	64	77	86	89	89	75	60	63	69	68	81	85	86	86	71.4
	Minimum	37	39	42	46	43	38	42	45	51	50	44	45	52	52	56	59	44	45	42	47	58	64	63	51	35	38	45	53	53	62	64	48.5
Lamar §§	Maximum	66	73	81	65	69	69	72	67	76	72	63	76	76	78	85	73	53	64	78	78	90	89	90	62	61	72	62	76	87	89	88	71.2
	Minimum	37	36	41	49	42	41	44	49	52	57	48	44	50	54	56	60	47	47	41	45	56	66	62	56	36	39	47	52	59	62	64	49.6
Lamonte	Maximum	64	72	80	68	65	64	62	57	63	74	65	78	72	79	78	72	51	63	79	88	92	91	83	70	66	74	74	83	88	92	90	74.1
	Minimum	39	34	50	47	44	36	45	49	53	56	42	40	51	50	55	50	45	44	36	56	61	67	63	43	31	40	49	53	61	61	61	49.0
Marshall	Maximum	64	73	78	78	68	63	67	62	63	75	68	79	74	80	78	73	55	62	79	89	95	94	88	79	68	..	77	87	86	93	92	[a]76.2
	Minimum	40	34	..	53	42	34	45	47	50	56	38	40	51	52	50	52	44	42	38	52	60	..	63	44	32	..	46	50	60	60	63	[c]47.8
Nevada	Maximum	65	67	80	66	65	63	61	60	69	72	68	70	70	78	84	65	55	62	74	74	88	89	85	66	66	66	63	75	79	82	85	71.5
	Minimum	36	36	53	49	45	39	47	52	56	56	46	42	57	51	60	52	45	46	39	56	65	69	63	48	31	36	51	53	62	65	64	50.7
Warrensburg	Maximum	60	69	73	68	63	64	60	58	60	72	66	74	73	77	76	70	52	61	75	85	89	90	83	73	63	71	70	80	81	89	88	72.1
	Minimum	40	38	51	48	45	38	45	50	53	55	44	44	54	51	56	52	46	46	41	58	65	68	65	46	35	44	51	56	62	66	66	50.9
Warsaw	Maximum	63	70	79	72	65	67	62	59	73	75	69	76	74	80	83	81	59	60	77	85	91	91	88	85	63	72	76	82	88	92	91	75.7
	Minimum	38	32	48	50	45	35	46	52	51	59	47	39	51	48	54	56	47	47	36	49	63	65	64	47	31	34	48	57	59	61	65	49.3
Northwest Plateau.																																	
Chillicothe §§	Maximum	61	66	74	65	60	60	63	59	59	74	66	74	71	76	69	62	47	61	73	87	91	91	87	57	63	68	72	76	82	85	87	70.5
	Minimum	37	32	45	45	41	36	39	44	49	43	37	40	52	51	53	55	41	41	40	51	58	68	63	48	31	40	49	50	49	50	67	46.6
Grant City	Maximum	58	67	74	68	61	58	62	59	65	74	67	73	75	77	74	65	52	65	74	90	92	96	88	85	65	67	72	68	81	88	..	[a]72.0
	Minimum	39	32	46	42	38	32	37	46	46	45	37	43	50	39	54	46	42	39	42	59	65	67	57	45	31	39	50	58	50	63	..	[a]46.0
Kansas City	Maximum	62	69	78	67	63	62	58	55	57	72	62	75	71	76	77	68	51	62	76	86	90	92	80	67	61	69	69	77	86	89	86	71.4
	Minimum	42	45	56	48	47	44	45	51	51	50	45	50	53	55	59	46	44	45	48	62	70	72	69	41	39	45	54	56	63	69	69	52.7
Kidder §§	Maximum	64	68	76	67	63	60	63	57	59	73	68	74	72	77	77	60	48	66	75	88	90	91	88	54	67	69	71	77	83	88	88	71.6
	Minimum	34	35	41	43	40	35	37	43	47	44	37	40	48	51	51	57	41	42	42	47	65	67	60	47	30	39	41	50	54	59	63	46.1
Lexington §§	Maximum	64	70	79	68	68	65	61	58	58	71	66	75	74	76	74	71	51	63	76	87	91	90	83	70	66	69	71	81	86	88	88	72.9
	Minimum	40	38	53	47	44	39	47	49	52	49	42	41	53	54	54	59	44	44	42	58	65	69	65	52	33	42	51	52	62	63	65	50.6
Maryville	Maximum	65	70	75	73	60	59	61	53	68	76	69	75	76	76	66	64	55	67	76	92	91	94	89	73	67	68	71	69	83	88	87	72.8
	Minimum	37	34	46	41	39	33	39	46	47	45	37	44	55	50	53	43	42	41	45	61	65	70	59	40	31	43	50	53	56	61	65	47.6
Oregon	Maximum	60	61	68	74	73	62	62	61	68	74	61	65	62	73	71	66	55	63	74	86	88	95	85	78	63	69	70	70	82	86	86	71.5
	Minimum	36	38	42	41	46	36	41	46	48	47	40	42	40	52	50	45	42	41	45	57	66	69	62	45	36	43	52	53	61	68	67	48.4
St. Joseph	Maximum	62	69	75	67	62	59	62	57	65	75	67	74	71	77	68	63	56	66	77	89	90	91	86	65	65	69	72	75	86	89	87	72.3
	Minimum	39	37	51	46	44	37	46	49	50	47	42	45	56	55	57	44	43	42	48	62	68	72	65	40	36	43	53	55	62	67	69	50.6
Trenton	Maximum	61	61	70	64	60	56	63	58	58	70	62	64	70	72	67	60	49	60	71	81	85	89	83	79	61	64	69	70	78	85	87	68.8
	Minimum	38	38	52	48	41	36	41	42	50	45	39	40	50	52	60	49	42	40	44	54	61	67	66	45	35	42	50	54	60	64	67	48.6

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a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 6-19-25—860.

UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

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GENERAL SUMMARY.

June, 1925, was mainly a warm month although without any extremely hot days. While probably too steadily warm from the physiological side, it was on the other hand a fine summer month from the view point of the agriculturalist---plenty of warmth, plenty of sunshine and moisture. It had its adverse side, however. There were too many thunderstorms with attending squalls, and too many local hailstorms. The damage resulting from these storms was somewhat heavier than during the usual June.

As a rule the weather was favorable for farming interests. It rained and stormed only occasionally during the first half of the month, giving the farmer ample time to cultivate his crops. At the close of the month the corn crop probably was never in better condition for the time of season. Wheat and hay harvest and other work was carried on without any serious hindrance.

The main rivers were running a few feet under bankful stages, but some of the tributaries went out of banks, destroying a relatively small acreage of corn and wheat in the bottoms.

TEMPERATURE.

The monthly mean temperature for the State as a whole, 67 stations reporting, was 76.5°, or about 3° higher than the 36-year normal. In the southeastern lowlands the temperature excess averaged about 5° a day; in the northwestern plateau it was less than 2° a day, while in other sections the daily excess averaged around 3°. The last week was cooler than normal but the first 20 days or more were mainly warmer than normal, ranging from 1° to as much as 14° a day. Afternoon temperatures reached 90° or higher on 15 days, 100° to 103° occurring at six stations; these extremes, however, are well under those of June in some other years.

PRECIPITATION.

The precipitation for the State as a whole, 99 stations reporting, was 6.10 inches, or about 1.43 inches more than the 56 years' average. It was wetter than normal in all sections, save the Ozark Plateau, though only 12 stations reported minus departures, and most of these were confined to a relatively narrow strip extending from about Miller County southward to the state-border. During the first ten days or more the rains were infrequent and moderate; the last half of the month was wet. A rather dry spell in the southeastern part of the State was broken by excessively heavy rains on the 13th, from 5 to over 8 inches falling within less than 24 hours. Considerable damage resulted from overflowed creeks and small rivers. The greatest monthly amount was 12.55 inches, at St. Joseph.

WIND.

The prevailing winds were from the south. The average wind movement, based upon the records of 8 stations equipped with anemometers, was 6,689 miles, 9 3 miles an hour and about 10 per cent more than normal. Brisk to strong local winds occurred on a few days, the highest velocity reported being 55 miles from the northwest at St. Louis, on the 29th; the next highest was 42 miles at Columbia, on the 17th.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well placed stations equipped with sunshine recorders reporting, was 324, or about 73 per cent of the possible, and about 3 per cent more than normal. This June had 5 per cent more sunshine than the same month in 1923, and 10 per cent more than June, 1924.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---At St. Joseph on the 19th.

Hail, more or less damaging.---Brunswick on the 15th; Farmington, 23d; Marshall, 27th; Mexico. 28th; Tarkio, 28th, and 29th.

Thunderstorms.---1st, 2d, 3d, 6th, 7th, 9th, 12th, 13th, 15th, 16th, 17th, 18th, 19th, 22d, 23d, 24th, 26th, 27th, 28th, and 29th.

SPECIAL STORM NOTES.

June 3.—St. Joseph, Mo., and its vicinity, experienced one of the worst rainstorms in recent years during the early morning hours. In less than five hours 6.31 inches of water fell. There was great damage to city property by flooded sewers: to the roads and field crops. The St Joseph newspapers estimate the damage at $100,000. Heavy rains fell in adjacent counties, but the main damage was confined to Buchanan County.

June 7.—A small tornado-like storm passed over Rockport, Atchison County, at about 4 p. m. It came from the southwest and moved toward the northeast. Most of the damage was confined to blowing over small outhouses, and barns, toppling off chimneys, and uprooting trees. Damage estimated at $7,000.

June 17.—A severe electric storm occurred at about 9 p. m. in Columbia, Boone County. Rainfall was excessive but there was no hail. Wind, rain, and lightning did damage in the city to the amount of $1,200. Nearby creeks flooded lowlands destroying the crops.

June 27.—A severe hailstorm crossed from northwest to southeast over parts of Atchison, Nodaway, and Andrew Counties, between 8 and 10:30 p. m. Considerable damage was done to crops at Fairfax, Graham, and Fillmore. At the last place it was the most severe hail of recent years. The path of damage was about two miles wide and eight miles long, and the storm lasted about 20 minutes. The stones were as large as hen eggs and some as large as baseballs. Some hogs were killed, and many persons bruised and otherwise injured by the stones; much damage was done to windows of houses and automobiles, and even roofs of houses were pierced. The greatest damage occurred to the crops. Fields of fine corn, wheat and oats were absolutely wiped out. The hail in places was six inches deep; and in low shaded spots did not melt for two days. It is difficult to place the damage, but it has been estimated as high as $100,000. During the same evening quite severe hail fell locally in Cooper, Boone, and Audrain Counties, resulting in much damage to crops.

Strong thunderstorm squalls, with some resulting property damage, occurred at Brunswick on the 1st, and 15th; at Downing on the 15th, at the same time lightning struck and burned a barn; some barns were struck and live stock killed at Avalon on the 15th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.93	79	66	319	72	5,472	7.6	42	nw.	17
Hannibal	29.94	76	..	...	..	6,593	9.2	36	s.	12
Kansas City	29.89	76	60	365	82	7,228	10.0	38	w	12
St. Joseph	29.88	80	60	323	72	6,318	8.8	35	nw	12
St. Louis	29.95	72	54	295	66	9,368	13.0	55	nw.	29
Springfield	29.95	76	55	325	74	7,472	10.4	33	s.	2
Cairo, Ill	29.96	76	56	...	..	5,263	7.3	30	sw.	22
Keokuk, Iowa	29.94	75	59	310	69	5,725	8.0	37	sw.	15

COMPARATIVE DATA FOR JUNE.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	72.6	−0.5	103	37	6.20	+1.26	......	0	7	....	....	....
1889	70.7	−2.4	100	38	4.66	−0.28	......	0	6	....	....	....
1890	77.2	+4.1	105	50	2.59	−2.35	......	0	6	....	....	....
1891	73.3	+0.2	103	46	6.94	+2.00	......	0	13	....	....	....
1892	74.5	+1.4	100	38	3.18	−1.76	4.25	0	7	15	9	6
1893	72.6	−0.5	98	42	4.61	−0.31	3.60	0	9	12	12	6
1894	74.5	+1.4	105	30	3.92	−1.02	3.48	0	7	16	11	3
1895	73.2	+0.1	100	42	5.77	+0.83	3.85	0	10	12	11	7
1896	72.5	−0.6	101	45	8.32	+3.38	5.60	0	9	12	11	7
1897	73.6	+0.5	102	38	6.18	+1.24	6.40	0	12	9	14	7
1898	75.3	+2.2	100	42	5.88	+0.94	6.05	0	9	13	12	5
1899	74.3	+1.2	101	42	3.87	−1.07	4.48	0	9	15	10	5
1900	73.3	+0.2	103	44	4.79	−0.15	5.06	0	10	12	12	6
1901	77.9	+4.8	110	40	2.13	−2.81	2.99	0	6	18	10	2
1902	70.9	−2.2	100	37	6.57	+1.63	6.08	0	12	11	10	9
1903	67.3	−4.2	95	36	3.25	−1.69	4.90	0	9	15	9	6
1904	70.5	−2.6	93	45	6.42	+1.58	5.41	0	11	12	12	6
1905	75.2	+2.1	103	42	3.09	−1.85	4.80	0	7	15	10	5
1906	72.7	−0.4	101	40	4.95	+0.01	4.07	0	10	15	9	6
1907	71.2	−1.9	97	40	5.84	+0.90	3.90	0	11	14	10	6
1908	72.3	−0.8	98	43	6.30	+1.36	5.30	0	11	13	10	7
1909	73.9	+0.8	98	49	5.21	+0.27	4.12	0	11	11	13	6
1910	70.4	−2.7	99	38	3.92	−1.02	3.70	0	8	16	7	7
1911	78.9	+5.8	112	43	1.78	−3.16	2.07	0	6	18	8	4
1912	69.5	−3.6	100	42	4.78	−0.16	5.60	0	9	14	8	8
1913	75.4	+2.6	107	33	2.57	−2.22	3.05	0	6	18	8	4
1914	79.3	+6.2	106	43	2.37	−2.29	3.50	0	5	18	7	5
1915	70.8	−2.5	98	38	6.51	+1.87	4.86	0	12	11	10	9
1916	70.0	−3.2	100	42	6.99	+1.17	6.75	0	10	14	9	7
1917	71.0	−2.3	103	35	3.78	−0.59	4.19	0	8	19	7	4
1918	77.2	+3.9	110	48	3.15	−1.36	4.28	0	7	17	8	5
1919	75.0	+1.9	104	44	5.59	+1.11	4.21	0	11	14	10	6
1920	72.7	−0.5	104	41	2.35	−2.16	3.74	0	6	18	7	5
1921	76.6	+3.4	105	40	5.71	+1.15	4.14	0	12	12	10	8
1922	76.5	+3.1	108	43	1.66	−2.89	2.30	0	5	19	8	3
1923	73.5	+0.2	103	45	5.48	+1.02	4.12	0	11	14	9	7
1924	72.5	−1.0	101	38	7.39	+2.72	4.39	0	14	12	12	6
1925	76.5	+3.0	103	46	6.10	+1.43	8.14	0	9	15	10	5

Climatological Data for June, 1925.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	76.7	+ 3.5	96	20	58	9†	36	9.75	+4.56	3.85	0	11	16	0	14	se.	O. K. Benecke
Clifton Hill	Randolph	731	26	75.3	+ 2.3	94	17†	51	10	31	6.79	+2.45	2.89	0	10	11	18	1	......	Dr. A. J. Bradsher
Columbia	Boone	748	35	75.8	+ 3.0	93	17	58	9	31	7.07	+2.69	2.09	0	15	11	12	7	s.	U. S. Weather Bureau
Downing	Schuyler	878	4	73.2	......	92	20	50	10	36	6.68	+2.30	2.09	0	12	18	5	7	w.	E. E. St. Clair
Fayette	Howard	661	45	75.2	+ 1.9	95	20	52	30	39	7.61	+3.07	2.33	0	11	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	37	77.6	+ 4.0	96	7	56	9†	36	8.07	+3.87	3.43	0	12	22	7	1	......	Chamber of Commerce
Gorin	Scotland	700	38	....	......	..	..	..	..	..	5.86	+1.95	1.17	0	12	11	8	11	sw.	J. W. Pulliam
Hannibal	Marion	534	33	75.8	+ 3.3	94	17	55	10	32	3.27	−0.25	0.93	0	12	13	11	6	s.	U. S. Weather Bureau
Jefferson City	Cole	557	37	76.9	+ 2.9	96	17	58	26	33	5.81	+1.79	1.23	0	12	19	7	4	s.	Miss Emma Swift
Kirksville	Adair	969	36	72.4	+ 0.2	92	21	49	10	33	11.41	+7.14	3.18	0	12	13	8	9	sw.	Prof. J. S. Stokes
Louisiana	Pike	469	31	78.0	+ 5.9	96	4†	50	9	43	4.69	+0.74	1.20	0	9	26	2	2	w.	J. T. Farrell
Macon	Macon	875	26	75.5	+ 2.5	97	12	52	11	36	8.05	+3.64	2.70	0	10	18	7	5	sw.	W. C. Brown
Mexico	Audrain	800	36	76.2	+ 2.5	95	4†	57	30	37	6.56	+1.78	2.18	0	8	26	0	4	s.	Mrs. Abbie Snoddy
St. Catharine	Linn	800	14	73.4	+ 0.9	91	17	51	10	28	6.90	+2.12	2.24	0	14	14	11	5	s.	L. D. Baker
St. Charles	St. Charles	456	37	78.0	+ 3.8	96	15	57	30	33	7.49	+3.53	2.00	0	11	11	14	5	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	78.4	+ 3.4	96	6	60	30	30	4.84	+0.37	1.70	0	10	10	17	3	sw.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	78.1	+ 3.2	96	17	60	26	30	5.45	+1.69	1.81	0	10	11	14	5	se.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	..	..	..	5.26	+0.55	1.39	0	10	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	27	75.2	+ 2.0	94	21	55	28	36	6.33	+2.23	1.02	0	13	15	13	2	s	Frank Hall
Unionville	Putnam	1,062	32	72.4	+ 0.6	93	26	48	30	33	8.25	+3.57	2.50	0	13	15	8	7	sw.	Geo. W. Davis
Warrenton	Warren	816	43	77.0	+ 3.4	95	15†	57	26†	33	7.10	+3.14	2.38	0	8	18	10	2	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	74.2	+ 1.7	94	6	52	10	37	4.79	+0.44	1.50	0	12	11	10	9	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	75.8	+ 2.7	97	12	48	30	43	6.73	+2.54	3.43	0	11	15	9	6	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	29	85.6^{i}	+ 7.8	103	22†	61	29	40	0.27	−3.71	0.25	0	2	11^{i}	4^{i}	6^{i}	nw.	L. W. Dillman
Doniphan	Ripley	344	21	80.4	+ 5.6	98	28	55	26	35	6.88	+2.50	6.50	0	5	4	22	4	sw.	W. W. Martin
Jackson	Cape Girardeau	428	34	78.6	+ 4.5	101	6	52	11	46	6.98	+2.69	4.21	0	8	4	15	11	s.	John G. Putz
Marble Hill	Bollinger	470	30	78.5	+ 4.6	98	6†	54	10†	37	7.70	+3.53	4.10	0	7	9	21	0	sw.	R. A. DeWitt
Parma	New Madrid	281	4	....	......	..	..	..	..	..	3.45	......	2.08	0	3	..	..	..	......	J. E. Pearce
Patton (near)	Bollinger	500	16	....	......	..	..	..	..	..	6.56	+2.89	2.93	0	7	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	339	21	80.6	+ 5.2	102	12	54	25	36	3.45	−1.57	2.10	0	5	20	10	0	s.	J. H. Wolpers
Vanduser	Scott	304	24	....	......	..	..	..	..	..	5.03	+1.15	3.95	0	6	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	50	80.2	+ 3.9	95	11	61	26	31	5.95	+1.64	5.07	0	6	10	8	12	s.	U. S. Weather Bureau
Section means and	extremes	....	..	80.5	+ 5.3	103	22†	52	11	46	5.14	+1.14	6.50	0	5	10	13	7	s.	
Ozark Plateau.																				
Arcadia	Iron	926	44	75.4	+ 3.2	93	21	52	10†	37	5.47	+0.89	2.17	0	7	25	1	4	w.	Arcadia College
Birchtree	Shannon	1,000	30	77.9^{a}	+ 5.2	94	17†	53	26	34	2.39	−2.14	1.70	0	4	23	7	0	se.	V. H. Kirkendall
Bolivar††	Polk	1,071	31	77.8	+ 5.0	98	21	56	26	33	3.94	−1.08	1.00	0	9	22	7	1	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	98	17	..	..	..	4.89	−0.38	2.50	0	6	25	4	1	sw.	H. E. Dean
Eldon	Miller	934	29	77.5	+ 4.3	96	17†	56	13	34	4.17	−0.14	1.57	0	10	9	19	2	sw.	E. H. Shepherd
Farmington	St. Francois	918	14	77.3	+ 4.7	98	15†	56	11	40	5.46	+0.83	2.00	0	8	13	15	2	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	77.0	+ 4.2	96	21	54	26	32	4.76	+0.46	1.17	0	11	17	12	1	s.	A. C. Leach
Goodland	Iron	1,000	31	75.2	+ 3.1	97	21	46	27	41	4.42	+0.33	2.02	0	8	16	11	3	s.	F. M. Adams
Greenville	Wayne	381	3	77.3^{b}	......	96	6†	52	10	42	8.50	......	6.75	0	7	18	8	4	s.	Wm. P. Owens
Hailey	Barry	1,350	0	....	......	..	..	..	..	..	2.77	......	1.18	0	4	28	2	0	sw.	A. W. Madison
Hollister	Taney	735	38	79.6	+ 3.9	100	18†	52	27	43	2.40	−1.61	1.70	0	2	26	3	1	s.	Mrs. W. P. Chapman
Houston	Texas	1,280	30	76.4^{j}	+ 4.1	94	17†	52	26	32	....	......	....	0	..	13^{j}	4^{j}	3^{j}	......	Hugh Stone
Koshkonong	Oregon	958	24	80.0^{b}	+ 5.7	96	5†	59	26	30	5.99	+1.51	5.25	0	6	14^{b}	13^{b}	1^{b}	w.	R. M. Hitt
Lebanon	Laclede	1,265	37	76.8	+ 3.7	97	17†	52	26	37	3.46	−1.47	1.15	0	8	16	11	3	sw.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	76.8	+ 2.8	96	17	57	13	30	5.99	+1.19	1.37	0	7	24	6	0	sw.	C. S. Crow
Mountain Grove	Wright	1,463	24	77.0	+ 5.4	96	21†	53	26	35	3.45	−1.11	1.74	0	9	10	19	1	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	78.4	+ 4.5	97	28	52	26	36	3.85	−1.58	0.90	0	9	22	7	1	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	78.2	+ 5.4	96	17†	55	26	33	3.30	−0.83	1.08	0	9	18	10	2	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	77.2^{a}	+ 4.7	94	28	56	25†	31	3.62	+0.09	2.38	0	3	21^{b}	6^{b}	1^{b}	sw	Floyd E. Fawver
Seymour (near)	Webster	1,612	19	75.7	+ 3.7	94	21	49	26	35	4.18	−0.45	1.35	0	9	23	7	0	s.	Ira H. Hailey
Springfield	Greene	1,350	37	77.2	+ 4.7	93	21	58	25	25	3.88	−1.31	1.19	0	13	22	7	1	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	77.4	+ 3.8	100	18†	46	27	43	4.37	−0.34	6.75	0	7	20	8	2	sw.	
Southwest Plain.																				
Amoret	Bates	831	18	76.0	+ 2.5	99	28	53	29	36	4.99	+1.13	2.71	0	8	21	7	2	s.	Andrew Rood
Appleton City	St. Clair	853	31	77.8	+ 3.0	98	28	56	25	30	5.38	+0.39	3.95	0	8	13	17	0	se.	W. G. Bigelow
Clinton	Henry	765	32	79.2	+ 5.8	99	17	56	25	34	9.35	+4.62	4.70	0	10	22	7	1	sw.	A. E. Derwent, M. D
Harrisonville	Cass	904	48	75.4	+ 2.0	95	17†	55	25	35	5.82	+1.36	1.04	0	11	1	1	28	e.	John H. Patterson
Lamar	Barton	980	38	77.8	+ 3.4	97	17	57	13†	35	5.55	+0.59	1.45	0	9	20	5	5	sw.	Jesse A. Mann
Lamonte	Pettis	867	24	77.2	+ 2.9	100	17	56	25	34	5.35	+0.86	1.05	0	12	18	8	4	se.	J. E. Wheeler
Marshall	Saline	779	36	77.3	+ 3.4	100	21	55	9†	40	8.09	+3.77	2.45	0	12	11	12	7	sw.	Dr W. H. Black
Nevada	Vernon	862	32	77.6	+ 4.0	95	17†	57	13	28	5.05	−0.06	3.18	0	6	23	6	1	s.	George A. Kaupp
Warrensburg	Johnson	878	38	76.9	+ 2.7	95	21	56	25	29	5.26	+0.50	1.15	0	12	15	14	1	sw	L. B. Johnston
Warsaw	Benton	687	25	78.5	+ 4.8	97	17†	55	26	35	5.55	+0.38	2.37	0	9	12	17	1	s.	Everett Martin
Section means and	extremes	.....	..	77.4	+ 3.4	100	17†	53	29	40	6.04	+1.35	4.70	0	10	16	9	5	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	35	74.8	+ 1.2	95	17	54	30	30	8.40	+4.04	1.85	0	9	9	16	5	sw.	F. G. Ashbaugh
Bethany	Harrison	916	33	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	....	Owen Ross
Chillicothe	Livingston	779	16	73.8	− 0.4	93	14†	54	10	35	5.45	+0.38	1.11	0	13	14	8	8	sw.	Wm. J. Olenhouse
Conception	Nodaway	980	36	74.1	+ 2.5	97	20	53	10	31	7.15	+2.60	2.35	0	11	12	12	6	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	74.4^{a}	......	92	20	54	9	33	6.60	+1.49	1.96	0	11	21	1	5	s.	Fred L. Stiff
Grant City	Worth	1,134	21	72.6	+ 1.3	92	20†	50	28	31	6.91	+2.36	3.30	0	10	15	13	2	s.	B. F. Locke
Kansas City	Jackson	963	36	76.5	+ 2.9	95	28	57	13	31	7.10	+2.44	2.21	0	13	13	12	5	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	73.2	+ 0.8	95	20	53	10†	35	9.84	+5.48	2.55	0	13	16	2	12	se.	Linn Terry
Lexington	Lafayette	688	40	76.4	+ 3.6	96	17	58	8†	30	7.45	+2.68	2.00	0	15	17	10	3	s.	Edwin G. Loomis
Liberty	Clay	859	35	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	....	....
Maryville	Nodaway	1,169	35	72.9	+ 3.3	95	20	53	10	33	7.62	+2.99	1.76	0	14	14	1	15	s.	J. R. Brink
Oregon	Holt	1,048	69	72.8	+ 0.5	92	21	55	10†	29	8.01	+3.28	1.96	0	13	13	12	5	sw.	Tom Curry
St. Joseph	Buchanan	967	17	75.4	+ 1.2	94	14†	57	13	28	2.55	+8.46	6.53	0	16	17	7	6	s.	U. S. Weather Bureau
Tarkio	Atchison	916	22	72.8	+ 0.1	94	20	54	10†	34	7.12	+2.31	2.41	0	12	15	4	11	se.	Albert Volker
Trenton	Grundy	822	29	73.4	+ 0.8	91	21	55	10†	28	10.30	+6.00	4.12	0	14	16	9	5	s.	W. H. Estes
Section means and	extremes	.....	..	74.1	+ 1.5	97	20	50	28	35	8.04	+3.42	6.53	0	13	15	9	6	s.	
State means and	extremes	.....	..	76.5	+ 3.0	103	22†	46	27	46	6.10	+1.43	8.14	0	9	15	10	5	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for June, 1925.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri		.27						T.					.80		T.	1.10	.17	2.20	T.				.90	.20			.45	.06	.33			6.48
Brunswick‖	Grand		.30	.05										.65			3.85	.15	1.05	.06				2.20	.52				.40	.52			9.75
Clifton Hill	Chariton	T.	.20						.18				.72			T.	2.89		.46				.30	.64	T.			.16	.19	1.05			6.79
Columbia***	Missouri	.03	.44					.06					.69			.66	.36	1.66	.43				.91	1.01	.04		.01	.32	.04	.41			7.07
Downing	Mississippi	.12	.03	2.09					.15				1.09		.40	1.78	.04						.62	.03	.07				.26				6.68
Fayette‖	Missouri		.18					.07					.75			1.03	.21	1.60					2.33	.25				.77	.04	.38			7.61
Fulton‖	do		.59	.08					.07					.81			1.79	.04	.53	.01				3.43	.05			.09		.58			8.07
Gorin	Mississippi		.23	1.16					.23		.07		.37		.28	.98	.83					1.17	.20	.15					.19				5.86
Hannibal***	do	T.	.01	T.				.01			.01		.59		.03	.33	.27	T.					.93	.32	41				.24	.12			3.27
Hermann‖	Missouri		1.05	.08										.87			1.25	.02	.97	.02				2.80	1.55	.02			.04	.70	T.		9.37
Jefferson City‖	do		1.20	.03					.10					.82			1.23	.02	.38					.67	.75	.03			.35	.23			5.81
Kirksville	Mississippi			3.18					.30				.92	.22		1.04	.82	.02		.25			2.60	1.45					.48	.13			11.41
Louisiana	do		.65						T.				T.	.76			.54		T.				.30	1.20	.62		.20		.22	.20			4.69
Macon‖	Chariton		.30	.45					.15					.80			1.80		.10					2.70	.30			.30		1.15			8.05
Mexico‖	Mississippi		.25										.85				.75		.93					1.10	.30			.20		2.18			6.56
Milan‖	Grand		.30	2.60	.75				.20		.25		.22	1.05	.25		2.25						1.95	.12	.50				.90	.20			11.54
Pacific‖	Meramec		.83	.22					.08					.82			.28	.17	.95					2.90	.25	.03				.90	.03		7.46
St. Catharine	Grand	.10	.04	2.24							.22		.70	.03	T.	.30	1.38		.20				.65	.45	.03				.37	.19			6.90
St. Charles	Missouri		1.15										.70	.70		.50	.10	.04	.70					1.40		.15			.05	2.00			7.49
St Louis (1)***	Mississippi		.16						T.				.95	.08		T.	T.	.58	.32				.11	.85	.08				.69	1.02			4.84
St. Louis (2)	do		.35						T.				1.08	.07		T	T.	.52	.32				.12	1.00	.18				1.00	.81			5.45
Shelbina‖	do		.08	.05				.03						.55			1.39		.14					.80	.72				1.20	.30			5.26
Steffenville	do		.35	.15					T.		.42		.32	.43	.05	.90	1.02						.90	.60	.85				.17	.17			6.33
Union‖	Meramec		1.21	.55					.05					1.05			.30	.03	1.24					1.90	.33					.75			7.41
Unionville	Chariton	T.	.25	1.90					.50		.20		.80	.20	.70	1.80	.20			.10			1.20	T.	.10				.30				8.25
Valley Park‖	Meramec		.70	T.										.65	T.		T.		.25	.15				1.80	.30	.18				1.78			5.81
Warrenton	Mississippi		1.49											.79		14	.17		.83				.05	2.38	T.				T.	1.25			7.10
Keokuk, Ia.***	do	.02	.04	.26				.27					.36		.70	1.17	.03	05					1.50	.07	T.				.32				4.79
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi									T.				4.30	.23			.58						.86	.38				.19	.10	.13		6.77
Caruthersville	do							.02						.25									T.										0.27
Doniphan	Black								.13					6.50									.10		.13					.02			6.88
Jackson	Mississippi												.30	4.21			.11						.18	.66	1.16			.07		.29			6.98
Marble Hill	Mississippi								.08					4.10									.65	.72	1.60			.25		.30			7.70
New Madrid‖	do								.10					.75	4.25		1.60							.50	.75								7.95
Parma	St. Francis									1.33			.04	2.08																			3.45
Patton (near)	Mississippi													2.93					.22				.32	.70	2.08			.07		.24			6.56
Poplar Bluff	Black							.50					2.10	.10									.05	.70					T.				3.45
Vanduser	Mississippi							.10					3.95										.04	.46	.44				.04				5.03
Cairo, Ill.***	do						T.		T.				T.	5.07		.01	T.						.20	.62	.03					.02			5.95
Ozark Plateau.																																	
Annapolis‖	St. Francis																																....
Arcadia‖	do							T.		.06				1.05		.20			.95	T.				.88	2.17	T.				.16			5.47
Birchtree	Black								.15					1.70											.40					.14			2.39
Bolivar	Osage	.90							1.00	.20			.65						.03				.06	.92				.10		.08			3.94
Dean	Neosho							T.	.64				.99	.08					.55	2.50					.13								4.89
De Soto‖	Mississippi																																....
Eldon	Missouri		1.57						.16				.55			.04	.18		.55					.68	.02	.25				.17			4.17
Farmington	St. Francis						T.	T.	.04	.06				.90		T.	T.		.10				.13	1.68	2.00			T.		.55			5.46
Fredericktown‖	do					.45				.33	.27				.35		.71	.22			.45		.85	.16		.66			.42		.37		5.24
Galena‖	White								.75					1.20						2.50				.25									4.70
Gano	Meramec		.35						.18	.35				1.02		.36		.82					.06	.27	1.00			.09		.26			4.76
Goodland	Black		.10						.28	.16				.95		.12								.70	2.02					.10			4.43
Greenville	St. Francis								.09					6.75			.75						.12	.27	.43					.09			8.50
Hailey	White								.60				.55							1.18					.44								2.77
Hollister	do												1.70							.70													2.40
Houston	Gasconade																		.82					.37	1.28					.17			....
Jerome‖	do		.04						.28	.30				1.08		T.	.05			.03				.19	.15	.04				.47	.03		2.66
Koshkonong	Black								.19					5.25					.21						.19					.15			5.99
Lebanon‖	Osage		.09						.30	1.14				1.15					T.	.25					.36					.11	.06		3.46
Lockwood	do		.66						1.10				1.37						1.16	.25			T.	T.	1.15			.30					5.99
Mountain Grove‖	White		T.						.45	.02				1.74		.50			.03				T.	.04	.46			.07		.14			3.45
Neosho	Neosho		T.						.33		.07		.78	.90	.20		T.		.49	.62			.02	T.	.44								3.85
Rolla	Meramec	.20						.27	.30				1.08			.36	.14						.30	.18					.47				3.30
Seligman	Neosho												1.17							2.38					07								3.62
Seymour (near)	White								.56	.24			T.	1.35	.07	.08							T.	.11	1.13					.18	.46		4.18
Springfield***	do	.03					T.	.71		.80			1.18	.01		T.			.01	T.			.02	.50	.10		.07	.27		.01	.17		3.88
Steelville‖	Meramec		.34						.07	.33				1.20	.03			.22						.36	.10	.21				.62	.12		3.63
Tuscumbia‖	Osage		.63						.07	T.				1.06					.37	.09				.36	.02					.51			3.11
Willow Sprgs.‖ (near)	White								.37					.67										.06	.54			.07					1.71
Southwest Plain.																																	
Amoret	Osage	2.71						.53					.90		.15				.47				.05	.03						.15			4.99
Appleton City	do	.05	3.95					.20					.68						.40				.01	.05			T			.04			5.38
Clinton	do	.10	4.70					.30	.25				1.25				.15		1.75				.30	.25						.30			9.35
Harrisonville‖	do		.85	.45					.10					1.04			.92	.37	.95	.10				.88						09	.07		5.82
Joplin*	Neosho	.03						.92		.15			.69						.37	1.55			.04	1.33	T					.03			5.11
Lamar‖	do		1.29						.58	.03		.03		.92						1.07				.09	1.45			.09					5.55
Lamonte	Missouri	.01	.85						.18				1.05				.95	.08	.94				.20	.67				.02	.12	.28			5.35
Marshall	do	T.	.52						.02				.55	.20		T.	1.45	.05	2.45				.25	1.20	T.		T.	.90	.10	.40	T.		8.09
Nevada	Osage	T.	3.18						.55	.08			.58						.45				.21										5.05
Osceola‖	do		3.70						.38	.17				1.20					.26					.15						T.	.10		5.96
Warrensburg	Missouri	.03	.77					.03	.13				.63				1.03	.07	.85				.11	1.15	T.		T.		.17	.29			5.26
Warsaw	Osage		2.37						.29				.50	.70			.23		.79				.14	.15						.38			5.55
Waverly‖	Missouri	.02	.37	.12									T.	.65		T.	1.05	.08	1.07	.02				1.11	.03			.35	.10	.49	T		5.46
Northwest Plateau.																																	
Albany‖	Grand		.13	1.86							.55			.67		.65	.73					.87	.55	.12				1.15	.12				7.40
Avalon	do		.65	1.10									.90			1.60		1.10					1.85				.20	.40	.60				8.40
Bethany	do																																....
Chillicothe‖	do	.12	.05	1.06	T.				T.		T.		T.	1.11			.72	.01	.14	T.			.01	.72	.18	T		.30	.61	.42			5.45
Conception	Missouri	.15	T.	2.35				.06					.96		T.	1.14	.55	.10					1.30	.12	T.				.21	.21			7.15
Edgerton	do	T.	.07	.07									1.96			1.02	1.33		.77				.28	.55				.14	.14	.27			6.60
Gallatin‖	Grand		.50	4.10	T.						T.			1.20			1.26	T.	T.					.55	.10			.83	.22	.28			9.04
Grant City	do	T.	T.	3.30				T.	.27		.20		.78	.05	T.	.45	.19	T.					.93	.41	T.			T.	.33	T.			6.91
Kansas City***	Missouri	.17	1.36					.02					1.64	.01			.72	.34	1.87				.33	.24			.02		.08	.30			7.10
Kidder‖	Grand			1.97	.03								.06	1.75		.05	2.55	.15	.20	.01				1.96	.17				.58	.36			9.84
Lexington‖	Missouri		.45	.42	.03									.97	.05		.75	.08	1.10	.11				2.00	.02			.21	.06	.60	.60		7.45
Liberty	do																																....
Maryville	do		.12	1.76					.23				.39	.69		1.38	.55	1.18	.03				.22	.34	.17				.44	.12			7.62
Oregon	do	.74	1.96					.07					1.19		.05	1.40	1.18	.16					.52	.21	.30				.09	.14			8.01
St. Joseph***	do	.26	.23	6.31				.02					1.39		.03	1.32	1.14	.07	.09				.36	.33	.12			.37	.30	.21			12.55
Tarkio	do	.65	.09	1.44				.08					1.09		.04	2.41	.42						.34	.10					.18	.28			7.12
Trenton	Grand	.33	.30	4.12				T.			.44		1.84		.09	.52	.68	.06					.51	.26	.17				.63	.35			10.30

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for June, 1925.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	89	85	83	92	92	94	93	85	91	83	93	90	85	95	95	85	95	83	92	96	95	81	85	80	78	88	87	82	82	83	..	87.9
	Minimum	69	67	66	68	71	69	78	61	58	58	58	65	60	59	75	66	67	69	67	67	67	76	70	70	60	60	62	60	64	58	..	65.5
Columbia	Maximum	88	85	86	92	91	91	91	82	89	80	93	90	82	93	91	84	93	81	88	90	93	81	84	82	75	82	82	82	78	80	..	86.0
	Minimum	69	65	75	75	70	69	70	61	58	60	64	61	60	69	68	67	66	68	64	71	67	70	68	66	59	59	61	64	63	60	..	65.6
Fayette	Maximum	83	86	86	92	91	91	90	85	92	81	92	89	84	93	92	86	94	82	92	95	91	79	82	80	81	85	86	83	83	83	..	87.1
	Minimum	68	64	65	71	68	64	64	62	53	58	61	64	57	62	73	66	67	67	62	68	64	75	67	69	58	57	51	60	63	52	..	63.3
Hannibal	Maximum	89	84	84	94	92	93	92	85	88	76	92	91	84	92	92	84	94	86	91	92	93	80	74	82	73	85	83	69	79	79	..	85.7
	Minimum	74	69	68	76	74	70	72	61	58	55	60	63	62	65	70	68	77	68	63	66	70	70	70	66	60	59	60	59	63	59	..	65.8
Jefferson City §§	Maximum	90	85	87	91	90	92	92	88	93	82	93	92	85	92	93	87	96	85	92	91	95	82	87	84	77	85	85	88	80	81	..	88.0
	Minimum	68	64	65	74	70	67	66	65	60	61	61	70	59	63	74	67	70	69	64	70	67	73	69	70	60	58	63	60	65	61	..	65.8
Kirksville	Maximum	87	82	81	84	89	91	91	81	85	71	90	84	82	85	86	87	89	87	88	90	92	81	73	77	75	78	83	76	78	78	..	83.5
	Minimum	67	63	60	69	65	69	66	59	58	49	57	61	55	62	60	65	66	65	64	60	68	67	66	65	57	59	58	54	58	50	..	61.4
Louisiana	Maximum	92	88	88	96	96	95	95	90	93	90	95	94	88	95	93	90	95	91	93	94	96	91	88	92	76	86	90	87	86	85	..	91.1
	Minimum	70	68	74	75	65	65	65	68	50	58	62	69	62	60	70	68	82	70	58	70	65	68	68	62	62	58	54	58	65	55	..	61.8
Macon §§	Maximum	89	88	85	94	93	93	93	83	89	78	93	97	85	91	93	85	95	88	91	93	95	77	81	90	85	88	85	71	93	80	..	88.1
	Minimum	68	66	64	63	69	67	68	60	58	54	52	62	58	58	71	68	67	69	64	64	65	73	68	69	56	56	60	55	60	51	..	62.9
Mexico §§	Maximum	91	86	87	95	94	95	94	88	93	82	95	93	84	95	94	88	91	85	91	91	91	85	78	84	75	81	84	79	79	81	..	87.7
	Minimum	74	64	65	73	69	68	68	65	58	58	58	63	58	62	73	67	68	68	63	68	68	68	68	68	58	59	60	61	63	57	..	64.7
St. Catharine	Maximum	84	82	81	87	88	88	83	82	83	78	83	84	78	90	82	80	91	84	87	90	90	86	75	77	74	85	83	76	77	78	..	82.9
	Minimum	68	65	62	71	68	67	69	59	58	51	62	61	57	62	68	66	71	67	63	65	70	69	69	69	58	70	61	55	60	55	..	61.0
St. Louis(1)	Maximum	87	87	88	94	94	96	91	88	92	80	92	90	83	91	95	90	95	86	90	92	94	84	76	86	75	84	85	84	81	80	..	87.7
	Minimum	69	68	75	75	76	76	70	73	69	63	62	63	63	72	75	73	71	71	70	75	77	72	68	67	65	61	68	62	62	60	..	69.0
Unionville	Maximum	84	82	80	88	88	89	88	84	83	76	88	84	80	80	84	83	90	84	90	92	94	84	75	77	76	93	82	71	80	80	..	83.6
	Minimum	65	60	60	70	68	65	66	55	56	50	56	62	53	56	63	66	72	65	64	60	66	66	66	67	67	60	57	53	55	48	..	61.2
Warrenton	Maximum	89	83	87	92	91	93	92	86	91	85	93	90	85	93	95	87	91	93	90	91	95	90	79	84	75	85	83	81	80	81	..	87.8
	Minimum	67	66	76	73	67	68	66	67	62	59	60	69	61	67	73	66	73	68	64	70	70	70	66	70	60	57	63	64	63	57	..	66.1
Southeast Lowlands.																																	
Caruthersville	Maximum	..	..	..	..	..	..	100	93	93	97	102	99	93	99	101	98	..	101	98	102	101	103	101	98	98	..	..	103	101	92	..	^{i}99.0
	Minimum	..	..	..	..	..	..	68	73	71	72	69	73	71	74	81	71	..	71	72	80	73	72	82	71	71	..	..	66	61	70	..	^{i}72.3
Doniphan	Maximum	90	91	92	97	96	96	94	91	95	90	97	93	85	91	95	91	95	92	93	96	96	94	91	90	86	89	92	98	92	88	..	92.8
	Minimum	67	69	73	79	63	62	62	70	65	61	65	70	67	72	73	72	73	73	72	71	69	67	68	70	64	55	63	63	71	67	..	67.9
Jackson	Maximum	91	92	91	97	98	101	95	89	95	91	98	95	88	92	96	92	95	91	91	96	97	95	86	88	88	85	91	93	92	84	..	92.6
	Minimum	67	62	72	68	63	62	66	62	61	57	52	70	64	66	70	71	74	74	66	61	61	65	68	68	61	53	62	62	66	61	..	61.6
Poplar Bluff	Maximum	91	90	92	97	95	96	95	93	101	98	99	102	100	96	98	96	98	90	96	98	100	98	96	91	87	90	93	101	91	91	..	95.3
	Minimum	62	72	65	61	60	60	70	66	60	60	66	66	78	72	71	72	72	70	69	68	65	70	69	65	51	60	62	67	65	60	..	65.9
Cairo, Ill.	Maximum	89	89	91	94	94	95	90	88	93	85	95	90	79	90	91	91	93	86	89	92	95	94	81	88	80	84	88	93	83	83	..	89.2
	Minimum	72	72	75	74	73	71	68	73	70	69	64	74	67	73	76	75	76	77	74	72	73	70	71	72	66	61	67	70	69	68	..	71.1
Ozark Plateau.																																	
Arcadia §§	Maximum	86	86	87	92	92	92	91	88	92	80	92	88	85	91	92	87	92	83	91	92	93	85	82	87	76	84	86	90	83	80	..	87.5
	Minimum	67	69	69	66	60	59	61	69	58	52	55	65	63	66	70	68	70	69	63	62	60	64	68	67	63	52	60	60	65	58	..	63.3
Birchtree	Maximum	87	85	88	93	92	93	93	89	93	85	92	88	83	88	93	85	94	93	..	94	94	93	91	88	79	87	84	94	87	86	..	^{a}89.3
	Minimum	68	70	71	73	67	65	64	67	68	58	63	68	63	72	72	68	67	68	..	70	68	69	70	67	63	53	64	63	65	65	..	^{a}66.5
Eldon	Maximum	89	87	89	91	93	92	92	85	93	87	93	89	89	93	95	87	96	89	93	94	96	84	89	84	79	85	88	95	81	84	..	89.5
	Minimum	67	72	75	70	66	63	64	63	59	69	60	60	56	66	72	67	73	68	63	65	68	71	69	65	57	67	61	66	64	60	..	65.5
Farmington	Maximum	88	87	88	93	94	96	93	86	93	84	96	92	82	92	98	88	97	87	91	92	98	84	82	88	75	88	89	91	82	83	..	89.2
	Minimum	61	67	68	69	63	68	62	69	65	60	56	66	63	70	71	68	68	67	65	64	68	68	67	67	67	64	64	65	64	59	..	65.4
Hollister	Maximum	86	90	91	90	96	95	96	94	92	99	95	91	92	96	94	98	99	100	92	96	98	96	94	95	94	96	95	100	95	95	..	91.7
	Minimum	60	65	72	70	60	60	62	68	70	60	60	64	66	60	60	66	70	70	68	64	66	65	64	68	66	68	52	60	59	68	..	64.4
Koshkonong	Maximum	88	..	89	94	96	96	93	95	93	92	..	94	82	91	91	91	93	90	92	94	95	91	90	85	82	86	88	95	86	87	..	^{b}90.8
	Minimum	66	..	69	70	66	67	77	68	67	65	..	64	64	73	72	70	73	74	72	71	71	72	71	67	68	59	74	75	68	67	..	[illegible]
Lebanon §§	Maximum	85	88	89	95	94	96	92	91	93	86	92	89	89	92	95	90	97	85	92	93	97	86	93	84	77	86	90	96	87	90	..	90.3
	Minimum	66	64	64	70	65	63	63	64	57	58	65	65	56	56	72	67	71	68	64	65	63	69	70	67	55	52	53	62	62	62	..	63.3
Mountain Grove §§	Maximum	81	85	87	91	90	90	90	90	91	86	89	88	83	88	93	87	93	92	93	95	96	89	90	84	80	88	90	96	89	92	..	89.3
	Minimum	63	66	70	68	64	65	62	65	61	54	58	66	59	70	66	68	72	69	67	66	64	71	71	71	59	53	62	67	63	65	..	64.8
Neosho	Maximum	84	87	88	91	90	93	92	88	92	91	91	87	85	91	91	95	96	94	89	93	95	92	92	91	84	87	88	97	92	93	..	90.7
	Minimum	69	72	75	73	64	63	61	61	63	62	64	61	59	69	74	68	71	66	67	65	65	71	74	69	57	52	63	61	70	69	..	66.0
Rolla	Maximum	86	86	88	92	91	94	90	86	94	82	90	86	88	92	94	80	96	89	91	92	96	92	91	86	78	88	89	91	88	87	..	89.2
	Minimum	70	66	74	73	67	68	67	67	62	62	62	71	61	72	73	68	71	70	65	71	68	72	70	69	59	55	61	64	64	63	..	67.1
Springfield	Maximum	81	84	86	89	87	86	88	85	86	84	88	84	80	90	92	89	93	85	90	91	93	86	88	80	76	82	86	93	85	85	..	86.4
	Minimum	68	69	73	72	69	69	68	66	61	67	66	60	61	72	73	70	74	71	70	73	73	71	68	67	58	59	63	69	65	68	..	67.9
Southwest Plain.																																	
Amoret	Maximum	82	85	86	85	92	91	90	83	89	83	90	84	81	91	94	91	97	87	91	92	97	91	91	83	80	82	91	99	85	92	..	88.5
	Minimum	67	56	72	70	67	63	65	55	54	59	59	60	56	65	71	70	70	66	66	67	63	72	70	70	55	51	59	63	53	65	..	63.4
Appleton City	Maximum	85	78	87	90	88	89	88	84	86	83	89	85	82	92	94	91	97	87	93	91	95	88	91	82	80	81	90	98	87	90	..	88.2
	Minimum	69	63	75	74	76	67	68	61	60	61	69	61	58	68	74	71	73	65	67	72	67	73	72	75	56	57	62	68	66	67	..	67.3
Clinton	Maximum	91	81	88	91	90	93	92	85	93	89	93	92	85	94	97	92	99	93	94	96	96	91	91	90	88	87	91	89	91	93	..	91.2
	Minimum	69	62	75	73	68	66	67	59	59	61	67	65	58	66	74	68	73	70	65	69	66	72	70	81	56	59	61	69	77	65	..	67.1
Harrisonville §§	Maximum	82	82	83	87	86	90	87	84	91	81	89	82	79	91	93	87	95	82	92	93	91	83	90	80	80	87	88	95	80	88	..	86.6
	Minimum	68	61	62	71	68	66	67	56	57	60	60	70	56	56	72	66	67	64	64	70	68	69	69	69	55	57	62	65	64	63	..	64.1
Lamar §§	Maximum	84	86	87	90	91	92	90	83	91	86	90	86	84	93	96	93	97	83	90	91	96	89	91	84	80	85	86	95	82	88	..	88.7
	Minimum	69	64	67	71	69	65	67	62	63	65	66	70	57	58	74	71	72	72	67	69	70	75	72	69	57	57	61	65	68	69	..	66.8
Lamonte	Maximum	88	85	87	91	90	92	90	86	93	83	92	87	85	94	97	89	101	83	93	91	99	84	91	80	79	88	90	96	83	87	..	89.2
	Minimum	68	63	74	72	68	67	67	59	59	60	68	60	57	65	72	66	73	67	63	68	65	73	69	68	56	58	62	65	64	61	..	65.2
Marshall	Maximum	90	89	89	89	94	97	95	88	95	86	98	93	87	98	99	99	99	87	97	95	100	88	88	84	80	91	87	90	89	85	..	91.5
	Minimum	66	60	61	65	65	64	61	57	55	58	61	60	57	63	72	65	72	67	63	69	64	73	68	72	55	55	60	60	64	56	..	63.1
Nevada	Maximum	79	82	84	84	88	89	84	80	87	84	86	81	81	91	92	92	95	88	89	90	93	88	90	81	80	88	91	95	95	93	..	87.3
	Minimum		62	75	70	68	67	67	60	62	64	67	62	57	71	74	70	73	73	70	69	67	70	72	70	75	60	76	69	67	66	..	68.0
Warrensburg	Maximum	86	84	85	89	88	90	90	83	90	84	90	85	81	92	93	88	93	80	89	91	95	87	88	78	77	84	85	93	80	86	..	86.8
	Minimum	71	63	75	75	71	70	71	60	61	64	70	61	57	69	71	67	71	67	66	71	67	74	69	71	56	59	65	66	64	64	..	67.0
Warsaw	Maximum	88	87	88	92	89	91	90	89	92	83	92	90	83	94	95	90	97	92	90	93	94	93	91	88	78	86	89	97	97	90	..	90.3
	Minimum	62	64	76	75	72	65	67	61	57	63	68	72	60	67	71	74	74	68	65	68	62	73	71	71	58	55	60	66	65	67	..	66.7
Northwest Plateau.																																	
Chillicothe §§	Maximum	85	85	81	89	89	91	91	80	87	78	91	81	81	93	91	83	92	89	89	93	93	80	78	77	77	85	81	76	79	81	..	84.9
	Minimum	68	65	63	63	67	65	67	58	57	51	57	69	56	58	67	66	66	67	61	63	66	71	68	68	57	59	59	56	58	56	..	62.6
Grant City	Maximum	78	88	79	87	86	88	87	82	85	77	88	85	79	88	88	79	84	87	91	92	92	87	77	79	78	84	82	78	79	80	..	83.8
	Minimum	60	60	62	71	69	66	68	55	54	53	68	61	52	60	65	66	61	63	62	62	62	69	69	67	56	58	59	50	57	54	..	61.3
Kansas City	Maximum	82	84	85	88	88	90	88	82	90	81	89	79	81	93	95	88	94	79	91	93	94	83	82	78	78	86	86	95	76	87	..	86.2
	Minimum	67	62	66	74	71	70	71	64	66	59	70	61	57	69	69	67	67	65	68	75	76	71	70	64	60	64	68	64	64	65	..	66.8
Kidder §§	Maximum	83	87	83	87	87	90	87	80	89	80	89	77	80	92	91	83	93	80	92	95	92	82	80	78	79	87	83	77	80	81	..	84.8
	Minimum	62	63	62	62	66	63	65	56	58	53	55	65	53	57	67	64	67	66	63	64	66	72	67	67	55	58	60	55	60	57	..	61.6
Lexington §§	Maximum	85	83	83	89	88	91	89	84	91	82	90	89	81	92	94	87	96	85	93	95	94	88	84	80	79	89	87	91	79	82	..	87.3
	Minimum	69	64	66	74	69	65	66	58	60	59	66	61	58	64	71	68	76	67	63	65	65	76	70	73	59	61	63	64	64	62	..	65.4
Maryville	Maximum	83	82	81	85	87	88	87	79	86	76	88	84	81	90	84	79	87	84	92	95	94	82	76	79	80	86	85	78	79	81	..	83.8
	Minimum	58	60	62	62	69	66	67	56	54	53	64	59	54	62	64	65	69	64	63	62	68	69	69	67	56	59	61	56	57	66	..	62.0
Oregon	Maximum	80	81	83	85	86	87	85	79	81	84	88	78	79	91	85	84	88	79	89	88	92	83	80	77	79	85	84	79	78	83	..	83.3
	Minimum	58	61	64	72	70	67	69	56	58	55	66	59	55	63	63	65	63	61	63	65	63	69	68	63	56	60	60	58	59	61	..	62.3
St. Joseph	Maximum	83	84	85	88	89	90	89	80	86	81	90	80	82	91	90	87	88	80	90	92	91	84	82	78	79	86	85	83	80	85	..	85.5
	Minimum	63	63	63	74	73	70	68	61	64	58	70	58	57	66	66	67	70	67	63	67	71	71	70	62	60	65	64	61	62	64	..	65.3
Trenton	Maximum	84	82	80	84	86	86	86	77	82	78	83	80	80	89	87	85	88	86	86	88	91	82	75	77	74	81	82	71	75	78	..	82.3
	Minimum	69	65	62	64	68	68	69	61	62	55	64	60	55	61	61	67	69	70	68	67	71	72	69	64	60	62	64	62	60	60	..	64.4

^{a}, ^{b}, ^{c}, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 7-20-25—860

UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.
GEORGE REEDER, Meteorologist.

VOL. XXIX. COLUMBIA, MO., JULY, 1925. No. 7.

GENERAL SUMMARY.

July, 1925, was considerably drier than normal in Misouri, and there was more than the usual amount of sunshine. But probably the most strange feature of the month's weather was its temperamental quality. This midsummer month was divided into halves, the first part of unusual hotness and the other of pleasant coolness, some days, and particularly the last week, compared favorably with early autumn weather. During the early part of the month temperatures soared up around the 100 degree value frequently, while during the latter end they rarely reached 90° and frequently failed to reach 80°. The last week averaged cooler than any other similar period since 1883.

While the rainfall was not adequate for all purposes, the prevailing cool weather during the latter part of the month slowed down evaporation and otherwise mitigated drought effects. At the close of the month corn conditions were irregular and ranged from poor to excellent, but mostly good. It was well advanced, being in the pollination stage generally. It was a good month for outdoor occupations, traffic and utilities.

TEMPERATURE.

The temperature for the State, as determined from the records of 68 stations, was 77.9°. This value agrees within a half degree of the 36-year normal. The northern half of the State averaged slightly cooler than normal; the Ozarks slightly warmer, while the average daily excess in the southwest plain, and southeastern lowlands was 1.1° and 2.6°, respectively. The first part of the month was hot and the latter part relatively cool. Unusually warm weather prevailed the first week, with day temperature reaching and exceeding the 100° value generally, and especially in the southwestern plain. The highest was 106°, at Clinton on the 8th. The last week of the month was unusually cool. From the 28th to the 31st the minima were quite generally from 53° to 46°; and this is about the record for the last days of July, though lower temperatures have occurred in the past during the first part of the month.

PRECIPITATION.

The precipitation for the State as a whole, 103 stations reporting, was 2.71 inches, or 1.34 inches less than the 56 years' average. There was a deficiency in all sections, most marked in the southwestern plain, and less marked in the Ozark Plateau. There were no general rains or well defined rainy periods. Some quite heavy local showers occurred on the 6th, 20th, 21st, and 26th; 3.25 inches was the heaviest 24-hour fall, at Steffenville, on the 6th. It was, taking the whole State, the driest July since 1921.

WIND.

The prevailing winds were from the southwest. The average movement based on records of 8 well placed stations equipped with anemometers was 5,246 miles, 7 miles per hour, or about 4 per cent less than normal. A few local high winds (thunderstorm squalls) occurred on the 6th, and 9th.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine for the State, based upon the records of 6 stations equipped with sunshine recorders, was 347, 77 per cent of the possible and somewhat more than normal, and about 7 per cent more than July, 1924.

MISCELLANEOUS PHENOMENA.

Halos, solar.---7th, 11th, 12th, 17th, 20th, 21st, 22d, 25th, 27th, and 31st.

Halos, lunar.---3d, 4th, and 31st.

Hail.---At Edgerton, Louisiana, and St. Charles on the 25th; no material damage.

Thunderstorms.---General, 4th, 7th, 9th, 14th, 20th, 25th, and 26th. Local, 2d, 3d, 5th, 6th, 8th, 10th, 11th, 12th, 13th, 19th, 24th, 27th, 29th, and 30th. Thunder was heard and recorded on as many as 14 days at some stations.

Lightning struck the fine residence of R. M. Chaffin on farm about three miles northeast of Seymour, Webster County, about 10 o'clock at night of July 25th, causing a fire that destroyed the entire building and most of its contents. Loss about $10,000; insurance $2,000.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	29.95	80	64	338	75	4,217	5.7	*25	nw.	2
Hannibal	29.95	79	..	...	..	4,969	6.7	34	n.	6
Kansas City	29.95	74	55	379	84	6,135	8.2	60	nw.	9
St. Joseph	29.94	78	55	372	82	4,531	6.1	41	nw.	14
St. Louis	29.96	75	57	323	71	7,482	10.1	52	w	25
Springfield	29 98	79	62	299	67	5,876	7.9	34	s.	4
Cairo, Ill	29.95	77	58	...	..	4,420	5.9	26	n.	13
Keokuk, Iowa	29.96	76	60	371	81	4,334	5.8	35	n.	6

COMPARATIVE DATA FOR JULY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	79.3	+2.3	111	50	3.31	−0.98	......	0	7	....	....	....
1889	77.1	+0.1	107	46	3.75	−0.54	......	0	8	....	....	....
1890	79.6	+2.6	106	52	2.98	−1.31	......	0	5	....	....	....
1891	72.7	−4.3	103	40	3.55	−0.74	......	0	8	....	....	....
1892	75.8	−1.2	101	45	4.99	+0.70	4.75	0	8	12	10	9
1893	77.3	+0.3	101	51	4.91	+0.62	6.44	0	8	14	12	5
1894	76.5	−0.5	109	42	2.48	−1.81	4.90	0	5	18	10	3
1895	74.4	−2.6	106	45	6.79	+2.50	6.52	0	10	10	12	9
1896	77.3	+0.3	108	48	5.87	+1.58	8.00	0	9	15	11	5
1897	78.7	+1.7	106	48	3.22	−1.07	4.05	0	6	19	9	3
1898	76.1	−0.9	104	42	5.58	+1.29	8.15	0	9	16	10	5
1899	76.0	−1.0	102	43	4.51	+0.22	4.48	0	9	15	11	5
1900	76.9	−0.1	102	46	4.11	−0.18	7.03	0	8	17	10	4
1901	85.4	+8.4	116	46	2.02	−2.27	3.78	0	5	19	10	2
1902	77.0	0.0	103	50	4.59	+0.30	5.30	0	8	17	11	3
1903	77.4	+0.4	102	51	3.22	−1.07	3.26	0	8	17	10	4
1904	74.2	−2.8	100	47	4.65	+0.36	4.15	0	10	15	11	5
1905	73.4	−3.6	101	48	7.45	+3.16	7.60	0	12	12	10	9
1906	74 7	−2.3	100	48	3.53	+0 76	4.46	0	8	17	10	4
1907	78.4	+1.4	105	47	4.57	+0.28	6.70	0	8	19	8	4
1908	76.5	−0.5	101	49	2.23	−2.06	2.65	0	8	18	9	4
1909	76.7	−0.3	102	41	6.41	+2.12	10.71	0	10	17	8	6
1910	76.8	−0.2	109	46	6.70	+2.41	5.80	0	9	16	9	6
1911	78.0	+1.0	113	43	3.95	−0.34	4.20	0	8	16	9	6
1912	78.8	+1.8	104	52	2.74	−1.55	3.17	0	7	18	9	4
1913	80.2	+3.2	108	47	3.18	−1.16	3.62	0	7	18	9	4
1914	80.5	+3.7	109	45	2.67	−1.66	4.45	0	7	17	9	5
1915	74.6	−2.4	102	42	6.05	+1.59	6.77	0	12	14	9	8
1916	81 6	+4.6	109	52	1.25	−3.15	2.55	0	3	25	5	1
1917	77.5	+0.2	107	42	2.96	−1.22	3.40	0	8	20	8	3
1918	77.1	+0.2	110	41	1.76	−2.49	3.75	0	6	19	8	4
1919	80.0	+2.3	115	50	2.33	−1.37	4.55	0	5	23	6	2
1920	76.3	−0.9	105	47	3 25	−0.84	3.84	0	7	18	8	5
1921	80.3	+2.9	109	46	2.32	−1.77	2.25	0	5	20	8	3
1922	76.8	−0.7	103	46	5.85	+1.82	12.25	0	8	17	9	5
1923	78.2	+0.7	105	50	3.07	−0.89	7.42	0	6	18	8	5
1924	73.3	−4.1	103	40	5.39	+1.34	7.14	0	10	15	11	5
1925	77.9	+0.5	106	46	2.71	−1.34	3.25	0	7	16	10	5

Climatological Data for July, 1925.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	77.9	+ 2.2	102	13	52	31	39	2.30	−2.34	0.60	0	8	22	0	9	nw.	O. K. Benecke
Clifton Hill	Randolph	731	26	77.2	+ 0.8	99	8†	49	31	34	1.80	−2.08	0.65	0	6	20	9	2	.....	Dr. A. J. Bradsher
Columbia	Boone	748	35	77.0	+ 0.1	96	6	52	31	30	2.01	−1.64	1.26	0	7	11	15	5	sw.	U. S. Weather Bureau
Downing	Schuyler	878	4	76.6	......	99	2	50	31	32	2.46	−2.47	2.14	0	6	27	2	2	n.	E. E. St. Clair
Fayette	Howard	661	45	77.2	− 0.2	98	8	50	31	34	1.59	−2.06	0.83	0	5	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	37	77.6[a]	− 0.3	97	2†	52	31	33	3.77	−0.22	1.68	0	5	23	8	0	......	Chamber of Commerce
Gorin	Scotland	700	38	....	......	..	..	..	..	..	2.86	−1.17	1.75	0	6	18	8	5	nw.	J. W. Pulliam
Hannibal	Marion	534	33	76.6	− 0.2	98	2	52	31	28	2.96	−0.79	2.26	0	9	15	8	8	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	37	78.1	0.0	98	2†	53	31	33	1.87	−1.58	0.85	0	5	23	4	4	s.	Miss Emma Swift
Kirksville	Adair	969	36	74.8	− 1.3	96	2†	49	31	37	0.57	−3.88	0.32	0	3	25	3	3	sw.	Prof. J. S. Stokes
Louisiana	Pike	469	31	77.2	+ 0.8	98	2†	52	31	35	3.45	+0.33	2.55	0	6	27	3	1	w.	J. T. Farrell
Macon	Macon	875	26	77.2	− 0.2	100	8†	48	31	40	2.50	−1.26	1.10	0	5	18	11	2	sw	W. C. Brown
Mexico	Audrain	800	36	77.0	− 0.3	99	15	50	31	34	2.19	−1.56	1.15	0	8	26	1	4	sw.	Mrs. Abbie Snoddy
St. Catharine	Linn	800	14	75.8	− 0.3	98	13	50	31	27	2.27	−2.30	0.86	0	7	18	10	3	sw.	L. D. Baker
St. Charles	St. Charles	456	37	77.6	− 0.5	99	2	53	31	31	2.92	−0.31	1.67	0	5	15	13	3	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	79.0	+ 0.3	97	2	58	31	27	1.78	−1.65	1.15	0	7	12	14	5	sw.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	79.0	− 1.1	97	2	57	31	28	2.65	−0.10	1.38	0	7	15	11	5	nw.	St. Louis University
Shelbina	Shelby	779	32	....	.....	..	..	..	..	..	4.26	+0.10	2.54	0	9	..	..	..	.....	J. C. Jewett
Steffenville	Lewis	650	27	78.0[b]	0.0	104	2	50	29	40	4.40	−0.03	3.25	0	5	14[b]	12[b]	2[b]	ne.	Frank Hall
Unionville	Putnam	1,062	32	75.8	− 1.0	98	12†	46	28	35	1.30	−2.99	0.60	0	4	16	9	6	s.	Geo. W. Davis
Warrenton	Warren	816	43	77.6	− 0.2	96	2†	50	31	32	1.57	−1.85	0.98	0	4	17	10	4	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	76.6	− 0.3	100	2	51	31	33	3.90	−0.13	2.72	0	10	12	13	6	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	77.2	− 0.1	104	2	46	28	40	2.52	−1.36	3.25	0	6	19	8	4	sw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	29	86.2	+ 5.6	104	2†	65	28	34	1.65	−1.76	1.10	0	4	14	11	6	se.	L. W. Dillman
Doniphan	Ripley	344	21	80.4	+ 2.2	101	2	54	29	36	2.14	−2.59	1.85	0	6	3	19	9	s.	W. W. Martin
Jackson	Cape Girardeau	428	34	78.2	+ 0.8	101	25	50	29	37	0.98	−2.54	0.50	0	5	6	16	9	s.	John G. Putz
Marble Hill	Bollinger	470	30	77.7	+ 0.4	97	2	54	18	34	4.34	−0.34	2.25	0	8	12	18	1	sw.	R. A. DeWitt
Parma	New Madrid	281	4	....	......	..	..	..	..	..	4.62	......	1.96	0	7	..	..	..	......	O. O. Stires
Patton (near)	Bollinger	500	16	....	......	..	..	..	..	..	3.47	−0.27	2.27	0	6	..	..	..	......	George F. Ellis.
Poplar Bluff	Butler	329	21	85.2	+ 6.5	104	2	51	31	41	1.23	−2.32	0.50	0	4	21	8	2	s.	J. H. Wolpers
Vanduser	Scott	304	24	....	......	..	..	..	..	..	2.03	−2.74	1.00	0	8	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	50	80.0	+ 0.4	98	2	60	31	28	2.08	−1.37	0.89	0	8	7	15	9	s.	U. S. Weather Bureau
Section means and	extremes	....	..	81.3	+ 2.6	104	2†	50	29	41	2.50	−1.74	2.27	0	7	11	14	6	s.	
Ozark Plateau.																				
Arcadia	Iron	926	44	75.8[b]	− 0.1	96	2	48	29	34	4.87	+0.53	2.04	0	8	29	0	2	nw.	Arcadia College
Birchtree	Shannon	1,000	30	77.2	+ 0.8	100	2	54	31	36	3.44	−0.55	1.38	0	8	19	7	5	s.	V. H. Kirkendall
Bolivar††	Polk	1,071	31	79.5	+ 2.4	101	8	53	29†	33	2.08	−1.67	1.50	0	4	18	11	2	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	99	1	..	..	..	8.60	+4.55	2.48	0	15	18	4	12	se.	H. E. Dean
Eldon	Miller	934	29	78.6[b]	+ 1.6	100	13	50	29	36	2.18	−1.48	0.73	0	7	6[b]	18[b]	5[b]	sw.	E. H. Shepherd
Farmington	St. Francois	918	14	77.8	+ 2.5	101	5	48	29	38	1.70	−1.85	0.85	0	6	15	13	3	w.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	77.6	+ 0.7	100	2	50	29	37	2.60	−0.90	1.50	0	6	20	9	2	sw.	A. C. Leach
Goodland	Iron	1,000	31	75.2	− 0.4	97	2†	48	29	36	4.24	+0.06	1.37	0	4	13	17	1	s.	F. M. Adams
Greenville	Wayne	381	3	75.5	......	100	2	50	31	40	2.60	......	0.80	0	5	17	10	4	s.	Wm. P. Owens
Hailey	Barry	1,350	0	....	......	..	..	..	..	..	4.70	......	1.69	0	14	13[a]	10[a]	7[a]	w.	A. W. Madison
Hollister	Taney	735	38	78.7	− 0.7	103	9	53	29	38	2.75	−1.17	0.90	0	6	8	11	12	s.	Mrs. W. P. Chapman
Houston	Texas	1,280	30	76.8	+ 0.7	97	8†	53	31	33	3.79	−0.27	1.31	0	13	10	18	3	nw.	Hugh Stone
Koshkonong	Oregon	958	24	78.9[a]	+ 0.6	98	9	56	31	38	2.70	−1.22	0.84	0	7	9[a]	15[a]	6[a]	sw.	R. M. Hitt
Lebanon	Laclede	1,265	37	76.9	0.0	99	13	47	29	37	4.26	+0.14	0.75	0	12	15	10	6	s.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	77.8	+ 0.2	96	24	52	31	31	2.43	−2.44	1.53	0	3	21	9	1	sw.	C. S. Crow
Mountain Grove	Wright	1,463	24	77.0	+ 1.0	99	2†	50	31	33	3.22	−0.78	1.22	0	9	10	17	4	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	78.2	+ 0.6	97	1†	52	31	37	4.31	+0.13	1.05	0	10	20	6	5	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	78.4	+ 1.0	98	2†	52	31	32	3.14	−0.95	1.34	0	5	23	5	3	sw.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	77.6	+ 1.0	97	9	52	31	30	4.64	+0.24	1.32	0	12	13	12	6	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,642	19	75.0	− 0.5	94	8	49	31	29	5.36	+0.61	2.18	0	10	15	11	5	s.	Ira H. Hailey
Springfield	Greene	1,350	37	76.6	− 0.2	94	8	54	31	25	3.53	−1.26	1.35	0	13	18	10	3	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	77.3	+ 0.6	103	9	47	29	40	3.67	−0.42	2.48	0	8	15	11	5	sw.	
Southwest Plain.																				
Amoret	Bates	831	18	79.2	+ 1.6	103	8	51	30	36	4.46	+0.50	2.10	0	9	23	6	2	sw.	Andrew Rood
Appleton City	St. Clair	853	31	80.4	+ 2.1	104	8	52	31	32	1.87	−2.76	0.73	0	5	11	20	0	sw.	W. G. Bigelow
Clinton	Henry	765	32	81.8	+ 4.3	106	8	51	31	34	2.23	−1.71	0.80	0	6	15	15	1	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	77.4	− 0.4	102	8	49	31	35	3.06	−0.72	0.90	0	8	6	0	25	sw.	John H. Patterson
Lamar	Barton	980	38	78.8	+ 0.3	100	8	52	31	35	1.56	−2.68	1.05	0	7	11	11	9	sw.	Jesse A. Mann
Lamonte	Pettis	867	24	79.2	− 0.3	104	8	49	31	36	1.18	−2.82	0.46	0	10	19	9	3	se.	J. E. Wheeler
Marshall	Saline	779	36	79.2	+ 1.9	103	11	50	31	41	2.55	−1.41	1.55	0	6	12	10	9	nw.	Dr. W. H. Black
Nevada	Vernon	862	32	78.9	− 1.3	100	8	50	31	32	0.90	−3.03	0.30	0	4	17	10	4	n.	George A. Kaupp
Warrensburg	Johnson	878	38	79.2	+ 0.4	101	8	50	31	29	1.41	−2.54	0.67	0	8	16	12	3	sw.	L. B. Johnston
Warsaw	Benton	687	25	80.4	+ 2.1	105	8	50	29	36	1.35	−2.95	0.38	0	5	11	20	0	e.	Everett Martin
Section means and	extremes	.....	..	79.4	+ 1.1	106	8	49	31	41	2.06	−2.01	2.10	0	7	14	11	6	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	35	77.0	− 2.1	99	13	49	31	40	3.05	−1.06	1.30	0	6	..	..	..	sw.	F. G. Ashbaugh
Bethany	Harrison	916	33	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	...	Owen Ross
Chillicothe	Livingston	779	16	76.1	− 4.1	98	13	49	31	30	3.86	−0.72	1.72	0	8	20	9	2	sw.	Wm. J. Olenhouse
Conception	Nodaway	980	36	78.2	+ 1.8	103	1	50	31	38	2.08	−2.22	0.79	0	6	19	9	3	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	76.8[a]		99	7	52	31	31	3.27	−1.53	0.91	0	7	26	3	2	s.	Fred L. Stiff
Grant City	Worth	1,134	21	77.4	+ 1.2	99	1	48	31	34	1.45	−3.71	1.45	0	1	25	5	1	s.	B. F. Locke
Kansas City	Jackson	963	36	78.3	+ 0.2	100	8	54	31	25	3.00	−1.84	1.01	0	8	14	14	3	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	76.6	− 0.3	99	1	48	31	40	3.98	+0.05	1.97	0	8	19	6	6	ne.	Linn Terry
Lexington	Lafayette	688	40	78.2	+ 1.1	100	13	52	31	33	3.08	−1.61	1.10	0	8	21	8	2	s.	Edwin G. Loomis
Liberty	Clay	859	35	75.8[h]	− 2.3	98	8	51	31	28	1.53	−2.81	0.68	0	6	14[j]	4[j]	2[j]	....	....
Maryville	Nodaway	1,169	35	77.1	+ 1.5	104	1	50	31	38	2.46	−2.93	0.70	0	5	21	0	10	s.	J. R. Brink
Oregon	Holt	1,048	69	75.8	+ 0.2	97	1	50	31	27	3.39	−0.93	1.05	0	9	15	14	2	ne.	Tom Curry
St. Joseph	Buchanan	967	17	78.2	+ 0.6	100	1	54	31	28	3.30	+0.27	0.78	0	9	21	8	2	sw.	U. S. Weather Bureau
Tarkio	Atchison	916	22	76.6	− 0.4	104	1	50	28†	35	3.21	−0.50	1.26	0	5	19	10	2	se.	Albert Volker
Trenton	Grundy	822	29	76.5	− 0.4	94	12†	51	31	26	1.58	−2.75	0.79	0	6	23[a]	6[a]	1[a]	s.	W. H. Estes
Section means and	extremes	.....	..	77.0	− 0.2	104	1	48	31	40	2.80	−1.59	1.97	0	7	20	8	3	s.	
State means and	extremes	.....	..	77.9	+ 0.5	106	8	46	28	41	2.71	−1.34	3.25	0	7	16	10	5	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b], represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for July, 1925.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	T.						.05								T.						.80					.45	.24			.10		1.64
Brunswick‖	Grand				.10	.15		.45							.40	.25						.15					.60				.20		2.30
Clifton Hill	Chariton				.65			.36							.21						.23						.18			.17			1.80
Columbia***	Missouri		T.		T.			.18		T.					.01						1.26				T.	.01	.38			.03	.14		2.01
Downing	Mississippi				T.			2.14							.07				.06		.04									.13	.02		2.46
Fayette‖‖	Missouri				T.			.12							.02				T.		.83						.45			.17			1.59
Fulton‖	do							1.63													.24					1.68		.09			.13		3.77
Gorin	Mississippi				.20			1.75							.67				.15		.02									.07			2.86
Hannibal***	do				.08		1.11	1.15		.13					.10				.08		.05									.10	.16		2.96
Hermann‖	Missouri				.20			1.40	.10							.05						.05					.34	.11			.01	.05	2.31
Jefferson City‖	do							.85								.07						.15					.75	.05					1.87
Kirksville	Mississippi													.32	.13						.12												0.57
Louisiana	do				.22			2.55							.22					T.	.02					.18				T.	.26		3.45
Macon‖	Chariton				.90			1.10								.18				T.		T.									.25	.07	2.50
Mexico‖	Mississippi							.40		.16						.06				.08		1.15						.05			.21	.08	2.19
Milan‖	Grand				1.25			.55							.40	.85					.10								.15		T.		3.30
Pacific‖	Meramec							1.18								2.40											.82				.15		4.55
St. Catharine	Grand				.86			.33		T.					.80				T.		.06						.02			.13	.07		2.27
St. Charles	Missouri			.19				1.67		T.					.65											.21				T.	.20		2.92
St Louis (1)***	Mississippi			T.	.13	T.		1.15	T.	.35					.03					.01	T.					.05	T.			T.	.06		1.78
St. Louis (2)	do				.55			1.38	T.	.46				T.	.05					.02	T.					.12	T.	T.		T.	.07		2.65
Shelbina‖‖	do				.95	.02		2.54							.30	.04				.03		.13									.17	.08	4.26
Steffenville	do				.70		3.25							T.						.15								.12	.18				4.40
Union‖	Meramec							1.34	.05						.04	1.66						.10					.98				.15	.02	4.34
Unionville	Chariton				.60			.10						T.	.50						T.									.10	T.		1.30
Valley Park‖	Meramec							1.60	.02				.12														.27				.09	.02	2.12
Warrenton	Mississippi			T.		T.		.98						T.	T.	.30				T.	.21					T.	T.				T.	.08	1.57
Keokuk, Ia.***	do			.09	.05		2.04	.68		T.					.01				.40	.02	T.					T.	T.	.38		.04	.19		3.90
Southeast Lowlands.																																	
Cape Girardeau‖	Mississippi											.04			.06												.70	.03				.20	1.03
Caruthersville	do			T.			T.		.07												1.10						.05				.43		1.65
Doniphan	Black			.04					.03		1.85				.07						.05						.10				T.		2.14
Jackson	Mississippi										.05															.33	.06			.50		.04	0.98
Marble Hill	Mississippi							.03	.05		.16			2.25		1.10					.05						.25				.45		4.34
New Madrid‖	do						.01	.01														.80						.03				.75	1.60
Parma	St. Francis			.08					1.96			.10										.75					.12	.25			1.36		4.62
Patton (near)	Mississippi				.27			.30			.11															.41	.11				2.27		3.47
Poplar Bluff	Black		.17						.40						.16						.50												1.23
Vanduser	Mississippi										.29				.15	.03						.09				.40	1.00	.05			.02		2.03
Cairo, Ill.***	do					T.	.07		.30	.02	.87			.03							.48	T.			T.	T.	.11				.20		2.08
Ozark Plateau.																																	
Annapolis‖	St. Francis																																....
Arcadia‖	do				.16	T.		.10	.48		T.					2.04						.02					T.	.27			.30	1.50	4.87
Birchtree	Black								.43	.03	1.38				.62	.58				.33	.05	.02											3.44
Bolivar	Osage							T.	T.						.42				T.		.11									1.50	.05		2.08
Dean	Neosho				.42	.06		.69							.04	.02			.20	.11	.03	2.48	.01	2.16	.05			2.25			.07	.01	8.60
De Soto‖‖	Mississippi																																....
Eldon	Missouri			.68	.06		.06	.47												.02	.73				T.						.16		2.18
Farmington	St. Francis							.52		T.	T.			.11	T.	.16					T.					.03	.03				.85		1.70
Fredericktown‖‖	do					.24			.31						.44								.21				T.					2.45	3.65
Galena‖‖	White																														0.50		....
Gano	Meramec						.25	1.25						.20	.43						.04										.43		2.60
Goodland	Black							.85							.85												1.37			1.17			4.24
Greenville	St. Francis				.35						.25				.42	.78											.80						2.60
Hailey	White				.13			.61			.54	.02		.17	.22				.34	.12	.04	.12		.36	.05			1.69			.29		4.70
Hollister	do										.40			.50	.05					.60		.30						.90					2.75
Houston	Gasconade							.22	.02	.14	.20			.41	1.31	.03				.14	.05	.22				.01		.02			1.02		3.79
Jerome‖	do							.40	.05							2.26				.04		.10									.28		3.13
Koshkonong	Black				.07									.84	.60	.43				.54	.10	T.									.12		2.70
Lebanon‖	Osage	.35		.70					.21		.03				.57	.75				.45		.40			T.		.08		.21		.50	.01	4.26
Lockwood	do							T.													.10	T.			T.			.80			1.53		2.43
Mountain Grove‖	White							.28		T.	.12		T.	.28	1.22					.76	.07	.16		T.		.15					.18		3.22
Neosho	Neosho			T.		T		.91			T.				T.	.25			.17	.19	.08	.50		.53	.05	T.	T.	.58			1.05		4.31
Rolla	Meramec						.63	.14							1.34				T.		.50									.53			3.14
Seligman	Neosho				T.	.16		.40			.76	.26		.17					.18	.13	.04	1.32		.65				.52			.05		4.64
Seymour (near)	White				.68			.27			.21		T.	2.18	.12					1.26	.12	T.		T.	.02	.17	T.				.33		5.36
Springfield**	do			T.	.73			1.35			.42		T.	.06	.01				T.	.06	.47			.17	.03	.03	T.	.01		.13	.06		3.53
Steelville‖	Meramec			.02				.92	.15							1.93						.33					.45				.38		4.18
Tuscumbia‖	Osage					T.		.44								.26				T.		.43									.15		1.28
Willow Sprgs.‖‖ (near)	White			T					.04	.26	.15			1.02	.05	1.37				.32		.33		T.		T.					.04		3.58
Southwest Plain.																																	
Amoret	Osage				.01			.18					.73		.23				.03		2.10					.26	.07			.85			4.46
Appleton City	do				T			T							T.				T.		.73					.45	.05	T.		.01	.63	T.	1.87
Clinton	do			.15				.05													.80					.30	.40				.53		2.23
Harrisonville‖	do							.10		.07					.78	.02						.46				.90	.42				.31		3.06
Joplin*	Neosho							.70			T.			.03	.27				.27	T	.10	.11	.03	.08	.05	.02	T.	.65		1.05	.05		3.41
Lamar‖	do							.15												.04		.21					.06		.03		1.05	.02	1.56
Lamonte	Missouri							.18					.01		.01				.10		.46	.01				.08	.20			.04	.09		1.18
Marshall	do				.10	T.		.25					T.		.05					T.	1.55				T.	T.	.50			.10	T.		2.55
Nevada	Osage			T.				.15							T.				.20		.25					T.	T.			T.	.30		0.90
Osceola‖‖	do												.10			.20						.24					.32				.46		1.32
Warrensburg	Missouri			T.	T.	.02		.04					T.		.08				T.		.67					.25	.05			.07	.23		1.41
Warsaw	Osage			T.				T.						T.		.23					.37					.26	.11	T.	T.		.38		1.35
Waverly‖	Missouri	.07			.09	.02		.83		T.					.56					.03	T.	1.13				.03	.30	.16			.17	.10	3.49
Northwest Plateau.																																	
Albany‖‖	Grand		.45							.05					.33																		0.83
Avalon	do			.70					.10						1.30						.10						.60			.25			3.05
Bethany	do																																....
Chillicothe‖‖	do				1.72			.04		.01					.71	T.					.03	.05					.63				.67		3.86
Conception	Missouri			.09	.31					.19					.64						.06					T.	T.			.79		T.	2.08
Edgerton	do				.24			T.		.10				T.	.73				T.		.03					.71	.52			.94	T.		3.27
Gallatin‖	Grand				.63					T.					.80												.50				.65	.11	2.69
Grant City	do					T.	T.			T.					1.45							T.											1.45
Kansas City***	Missouri			T.	.05		T.	T.		.22			1.04		.44				T.		.69					.06	.17			.33	T.		3.00
Kidder‖	Grand				.90					.08					.37						.02	.10					1.97				.52	.02	3.98
Lexington‖	Missouri				.01			.38						.34	.54							1.10					.50				.14	.07	3.08
Liberty	do				.05			T.		.09			T.		.68						.17						.22			.32			1.53
Maryville	do				.48					.57					.67						.04									.70			2.46
Oregon	do			.55						.30					.60				T.	.04						.30	.44			1.05	.09	.02	3.39
St. Joseph***	do			.31	.30					.64					.78				T.		.06	T.			T.	.04	.43			.68	.06	T.	3.30
Tarkio	do			.41	.27					1.26					.51															.76			3.21
Trenton	Grand			.70			.04		.05						.38				T.		T.						.09			.32			1.58

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for July, 1925.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	97	100	96	86	94	98	95	101	93	95	96	97	102	81	96	86	85	93	91	81	83	81	85	96	94	90	86	76	75	78	74	89.7
	Minimum	58	69	73	70	71	73	72	74	76	72	72	74	72	68	66	66	63	61	61	73	68	60	59	62	65	66	67	57	54	55	52	66.1
Columbia	Maximum	94	96	94	82	94	96	92	96	90	92	94	94	96	80	92	84	84	90	91	79	82	78	84	90	90	82	87	76	74	74	73	87.1
	Minimum	66	76	74	72	71	73	70	73	75	72	72	74	72	68	63	62	60	60	68	68	64	60	62	68	74	66	66	57	53	59	52	66.8
Fayette	Maximum	98	97	94	87	95	95	96	98	94	96	96	96	95	86	96	88	87	90	94	80	85	81	87	95	94	87	86	77	73	77	74	89.5
	Minimum	64	71	70	70	68	71	69	71	73	70	70	71	69	69	62	67	57	55	65	68	65	57	60	65	69	65	66	55	51	58	50	64.9
Hannibal	Maximum	93	98	95	86	92	95	87	95	89	89	95	97	95	78	92	83	80	85	88	80	81	75	81	91	87	81	83	75	77	73	71	86.0
	Minimum	67	75	77	72	72	70	69	76	77	72	73	75	76	71	66	65	62	57	69	70	64	61	59	64	71	66	66	57	53	60	52	67.2
Jefferson City §§	Maximum	97	98	94	90	94	98	92	96	92	92	98	95	97	80	95	86	86	93	93	79	85	81	87	97	93	83	88	78	79	74	76	89.2
	Minimum	64	68	74	72	70	72	70	70	74	74	72	74	72	71	64	70	61	60	65	71	67	62	62	66	73	67	67	59	54	60	53	67.0
Kirksville	Maximum	92	96	92	92	91	91	92	95	90	88	92	93	96	81	91	83	82	86	88	84	81	78	82	91	89	87	83	78	74	78	73	86.7
	Minimum	63	73	71	67	66	67	68	68	68	74	64	72	71	69	66	66	62	58	58	67	62	54	54	54	54	54	69	52	53	53	49	62.8
Louisiana	Maximum	94	98	96	90	95	96	95	98	94	95	96	96	97	92	93	92	85	85	90	91	85	82	85	92	93	90	88	81	80	75	72	90.0
	Minimum	60	75	70	70	68	74	68	73	75	70	70	72	73	68	62	68	58	52	66	68	65	58	52	57	68	64	62	55	48	60	52	64.5
Macon §§	Maximum	95	98	96	89	95	98	95	100	93	94	96	100	99	82	94	85	85	87	92	80	84	85	86	94	93	88	86	79	78	79	77	89.7
	Minimum	55	65	72	69	68	73	69	70	74	67	70	72	73	70	65	69	60	58	62	69	65	55	56	61	70	65	68	53	53	60	48	64.6
Mexico §§	Maximum	94	97	95	85	94	97	91	97	93	93	98	98	98	99	93	84	85	90	92	81	84	78	83	92	93	83	89	79	79	75	75	89.2
	Minimum	60	68	71	71	69	73	69	70	74	70	72	73	71	70	63	63	62	57	65	72	61	57	58	62	69	66	62	55	53	57	50	64.9
St. Catharine	Maximum	92	97	93	85	88	92	90	95	87	89	93	97	98	86	90	83	76	85	89	85	81	77	81	91	89	85	85	75	74	76	74	86.4
	Minimum	65	71	70	68	70	72	70	74	74	67	72	71	72	68	65	60	60	60	65	66	64	55	59	64	72	65	68	52	52	59	50	65.2
St. Louis(1)	Maximum	91	97	95	92	92	94	90	93	93	90	93	96	96	86	92	85	82	85	88	85	87	81	83	88	92	81	88	77	78	68	72	87.4
	Minimum	64	80	81	77	76	76	69	77	74	73	76	78	80	71	70	74	69	67	67	71	72	65	64	66	71	68	70	61	62	62	58	70.6
Unionville	Maximum	96	97	94	88	90	92	93	95	90	92	95	98	98	86	93	88	85	86	91	86	88	81	85	94	92	90	86	81	74	78	76	89.0
	Minimum	64	73	70	60	64	72	70	71	70	60	70	68	73	66	66	67	60	55	63	65	57	50	54	62	65	60	66	46	52	50	48	62.5
Warrenton	Maximum	94	96	95	86	94	96	92	95	90	95	95	96	96	88	91	86	82	87	89	84	84	80	83	92	93	88	88	82	78	72	73	88.4
	Minimum	62	75	76	73	70	73	68	73	78	72	72	73	74	70	63	72	63	60	65	66	67	59	58	65	72	66	66	56	55	60	50	66.8
Southeast Lowlands.																																	
Caruthersville	Maximum	102	104	104	103	99	101	101	101	101	99	99	102	94	98	102	102	98	99	97	99	93	94	94	94	96	102	98	94	97	88	87	98.1
	Minimum	68	88	76	80	74	77	89	76	75	76	76	79	87	73	76	70	68	69	69	73	71	73	71	75	72	76	75	65	71	68	71	74.4
Doniphan	Maximum	98	101	99	99	97	98	94	99	97	91	91	95	94	95	95	96	89	93	90	86	91	90	90	96	100	89	93	86	90	83	81	93.1
	Minimum	62	70	70	67	69	75	73	71	72	73	70	70	76	67	71	65	59	57	67	69	69	64	67	72	70	73	71	69	54	60	57	67.7
Jackson	Maximum	92	94	91	92	91	92	90	95	97	92	94	98	99	94	94	95	88	90	91	91	91	90	90	89	101	87	93	79	86	81	75	91.0
	Minimum	55	68	67	71	70	72	75	70	71	74	71	69	71	67	66	63	57	53	61	69	69	67	60	63	68	67	65	63	50	61	55	65.4
Poplar Bluff	Maximum	101	104	102	102	100	98	96	100	95	88	93	100	97	97	101	99	94	95	91	87	94	93	92	95	98	93	95	90	90	82	85	95.1
	Minimum	68	69	72	69	72	71	70	70	71	60	69	74	65	68	63	58	55	65	67	70	63	64	62	69	69	68	65	54	64	52	51	65.4
Cairo, Ill.	Maximum	91	98	96	95	94	94	90	97	93	89	90	94	93	91	94	93	86	86	89	86	87	85	85	86	92	82	89	78	82	79	75	89.0
	Minimum	63	75	76	75	74	75	78	75	74	74	75	75	77	72	71	70	68	65	71	72	71	70	67	70	75	72	71	66	61	66	60	71.1
Ozark Plateau.																																	
Arcadia §§	Maximum	91	96	92	93	92	91	86	90	92	85	91	95	95	88	90	85	82	86	86	83	86	83	85	88	91	81	89	77	81	..	..	[b]87.9
	Minimum	57	66	71	69	67	69	71	69	69	72	69	68	71	62	65	64	56	53	60	65	67	57	58	61	67	65	64	61	48	55	55	63.6
Birchtree	Maximum	99	100	97	97	94	97	92	97	93	80	87	91	90	87	90	87	84	87	80	80	86	84	84	92	91	86	88	80	86	75	74	88.2
	Minimum	63	72	69	67	68	70	74	70	71	71	70	70	68	62	67	67	59	59	65	57	68	62	63	70	71	70	69	64	55	65	54	66.1
Eldon	Maximum	98	99	94	95	97	95	98	97	96	..	..	99	100	88	96	90	88	94	92	85	85	84	89	98	94	87	94	81	82	78	75	[b]91.3
	Minimum	65	74	70	71	69	68	71	71	72	..	..	70	72	70	62	65	60	58	68	69	65	59	59	69	73	69	68	56	50	61	55	[b]65.8
Farmington	Maximum	93	98	96	94	101	96	89	95	95	92	93	98	95	92	90	87	84	89	92	90	90	85	90	90	95	88	92	79	86	72	76	90.4
	Minimum	58	72	72	70	67	69	67	70	70	73	70	72	70	65	65	69	61	63	62	67	65	61	58	63	69	68	66	55	48	60	53	65.1
Hollister	Maximum	102	100	100	101	97	98	98	101	103	93	94	95	94	95	94	95	98	90	88	86	84	82	80	92	98	93	92	90	87	82	75	92.8
	Minimum	68	65	68	66	64	64	60	68	70	70	70	62	65	65	63	65	66	54	65	64	66	64	62	66	64	70	68	66	53	66	55	64.6
Koshkonong	Maximum	93	97	97	93	95	87	87	97	98	89	91	95	88	91	91	93	86	87	85	82	83	84	84	90	92	84	87	..	95	78	75	[a]89.4
	Minimum	64	74	71	70	72	74	74	73	72	74	71	71	68	66	67	73	64	63	66	67	71	64	64	71	72	74	72	..	57	66	56	[a]68.7
Lebanon §§	Maximum	97	98	94	95	93	95	91	98	98	96	97	97	99	87	91	87	86	89	88	89	89	83	95	96	89	90	90	81	85	74	71	90.6
	Minimum	65	66	68	68	66	69	71	67	67	69	68	68	71	65	64	65	56	56	59	68	64	56	58	61	68	67	68	57	47	48	49	63.2
Mountain Grove §§	Maximum	97	99	94	98	97	96	91	99	99	82	90	94	94	91	93	88	87	85	84	81	86	85	79	94	84	84	85	79	81	74	74	88.5
	Minimum	64	71	69	69	65	69	71	68	70	73	69	70	68	64	65	69	58	60	64	66	68	58	62	68	72	70	70	59	51	63	50	65.6
Neosho	Maximum	97	97	95	95	95	95	94	97	96	94	94	93	95	90	93	93	89	88	91	89	87	85	84	93	95	92	91	83	86	87	77	91.3
	Minimum	68	65	68	68	66	70	70	67	69	71	67	69	72	66	66	66	52	58	60	68	68	58	65	68	66	73	68	63	53	62	52	65.2
Rolla	Maximum	97	98	97	97	97	98	90	95	90	92	92	94	97	90	94	92	89	88	89	82	84	83	89	93	90	89	91	80	82	75	73	89.9
	Minimum	65	72	72	72	68	72	69	73	73	73	71	71	72	66	65	69	61	61	67	70	65	61	59	69	73	71	69	59	54	61	52	66.9
Springfield	Maximum	93	94	92	91	88	91	83	94	92	83	89	88	91	82	89	87	86	78	84	78	78	83	77	91	85	89	82	79	81	71	68	85.1
	Minimum	68	74	74	69	69	71	69	72	75	71	69	72	72	67	66	71	63	65	66	70	68	61	64	70	75	73	72	62	58	62	54	68.1
Southwest Plain.																																	
Amoret	Maximum	102	99	98	93	96	101	95	103	102	102	101	97	100	90	96	91	90	85	95	93	83	83	87	94	91	91	91	80	82	78	73	92.3
	Minimum	69	65	70	68	71	70	73	68	71	71	68	70	70	61	67	70	54	70	68	74	69	58	63	67	69	72	69	58	53	51	55	66.2
Appleton City	Maximum	100	98	98	92	96	98	95	104	94	100	102	96	100	88	98	88	90	88	96	89	83	82	89	96	90	90	90	80	84	78	71	91.7
	Minimum	71	72	72	70	69	70	71	73	73	79	70	83	75	71	66	75	63	65	70	70	74	61	65	70	70	73	71	62	56	59	52	69.1
Clinton	Maximum	102	100	98	94	96	100	96	106	98	102	100	97	101	91	99	92	93	92	96	92	85	90	92	97	92	92	92	91	83	82	73	94.0
	Minimum	75	71	72	70	69	71	80	72	75	81	69	72	74	70	65	72	60	61	68	70	68	75	63	70	70	70	80	78	54	60	51	69.5
Harrisonville §§	Maximum	99	97	96	87	83	96	96	102	91	97	95	97	99	83	95	87	89	88	95	78	82	80	85	94	89	90	87	79	70	78	70	88.8
	Minimum	64	72	70	71	69	70	72	72	72	70	69	70	72	66	67	68	60	62	67	72	67	59	60	63	70	67	68	57	55	55	49	66.0
Lamar §§	Maximum	95	96	95	92	94	97	90	100	96	97	96	95	98	91	96	91	91	79	93	82	80	86	81	98	93	91	87	82	88	76	72	90.3
	Minimum	71	72	71	69	68	71	72	70	76	74	70	72	74	69	67	69	56	56	64	71	71	58	63	68	72	74	71	63	55	60	52	67.4
Lamonte	Maximum	101	100	97	90	97	100	98	104	95	99	99	100	102	88	100	89	90	95	98	81	85	84	91	98	92	91	90	82	73	81	72	92.3
	Minimum	69	70	72	69	69	72	74	72	75	71	70	72	71	68	64	69	58	60	65	69	66	57	61	67	69	67	68	57	51	57	49	66.1
Marshall	Maximum	99	101	99	93	96	101	98	102	93	98	103	100	102	85	98	93	87	96	97	84	84	83	87	98	98	95	99	84	77	80	80	93.2
	Minimum	64	69	70	70	69	70	71	72	72	71	69	70	71	67	63	68	60	55	62	67	66	57	60	65	70	66	67	57	51	58	50	65.1
Nevada	Maximum	98	96	92	90	92	97	93	100	94	97	99	95	90	90	95	87	88	85	93	85	85	83	85	96	96	95	90	85	86	71	72	90.3
	Minimum	70	74	74	69	70	69	70	74	76	74	70	72	72	70	64	70	56	65	68	69	69	61	63	64	71	74	71	59	54	60	50	67.5
Warrensburg	Maximum	96	97	95	86	93	96	94	101	94	97	95	94	98	90	95	89	87	91	93	90	82	79	86	94	90	88	89	80	72	78	70	89.6
	Minimum	73	73	73	72	71	72	74	74	76	72	71	74	74	68	66	72	61	65	66	70	67	69	63	70	69	68	69	69	65	58	50	68.8
Warsaw	Maximum	100	99	97	95	97	99	98	105	98	102	100	96	102	89	98	91	91	93	96	94	86	85	92	98	95	91	92	81	81	76	73	93.2
	Minimum	70	73	70	70	70	72	78	73	80	73	68	74	71	71	66	69	55	58	69	72	67	59	62	72	73	71	68	58	50	62	53	67.6
Northwest Plateau.																																	
Chillicothe §§	Maximum	94	96	94	85	91	94	94	97	90	93	96	97	98	81	91	84	84	89	90	82	82	79	84	93	92	87	84	76	72	77	73	87.7
	Minimum	63	70	71	69	67	72	72	75	71	67	71	71	69	66	64	65	57	65	63	67	63	54	56	63	69	64	65	52	51	57	49	64.5
Grant City	Maximum	99	96	92	90	90	94	95	97	93	92	97	98	98	96	94	94	94	86	85	92	88	84	81	84	96	92	91	87	82	78	78	90.7
	Minimum	66	68	70	66	56	72	71	74	70	67	72	70	70	67	67	67	65	56	61	65	65	58	53	60	65	70	65	65	50	52	48	64.2
Kansas City	Maximum	98	97	96	83	94	97	98	100	88	94	94	95	95	84	91	84	86	86	87	82	81	77	83	93	82	88	87	76	67	77	69	87.5
	Minimum	74	79	76	70	73	74	77	76	72	73	74	70	76	68	69	73	66	69	69	69	66	62	65	69	70	67	68	59	56	58	54	69.1
Kidder §§	Maximum	99	97	98	87	91	96	97	97	92	93	97	98	98	84	95	86	85	87	91	80	84	81	85	98	94	90	88	78	68	78	71	89.1
	Minimum	59	70	70	78	67	70	73	73	70	67	70	70	70	66	63	67	57	60	62	66	60	53	58	60	70	63	63	52	53	55	48	64.0
Lexington §§	Maximum	98	97	96	89	93	97	97	97	93	93	95	94	100	90	95	90	87	88	92	85	83	79	82	93	91	86	87	81	72	79	72	89.4
	Minimum	69	77	72	71	70	70	73	73	74	71	71	72	70	67	61	72	61	61	65	72	67	57	62	65	73	66	70	57	55	59	52	66.9
Maryville	Maximum	104	97	95	86	90	96	98	98	89	92	95	97	98	90	94	87	87	85	91	83	85	81	83	97	92	91	87	77	69	78	73	89.2
	Minimum	66	72	72	67	69	73	70	75	69	66	72	71	71	67	67	67	58	62	64	65	59	52	60	66	71	67	68	51	53	54	50	65.0
Oregon	Maximum	97	96	95	80	90	94	95	95	88	90	93	92	95	85	91	84	85	86	87	84	79	77	81	92	86	88	83	74	66	76	63	86.0
	Minimum	70	74	67	68	69	73	70	75	70	67	71	72	70	66	67	67	60	66	65	66	60	55	59	66	69	65	70	55	55	55	50	65.5
St. Joseph	Maximum	100	98	96	85	93	98	98	99	89	94	95	96	97	88	93	84	85	88	89	81	81	80	84	95	91	90	85	74	64	76	68	88.2
	Minimum	72	77	72	70	72	75	76	77	71	70	75	76	75	68	69	68	62	66	68	70	64	59	63	70	73	67	65	57	58	56	54	68.2
Trenton	Maximum	92	93	93	84	89	93	92	93	88	89	93	94	94	82	89	82	81	86	88	81	84	80	85	90	88	86	81	75	74	73	72	85.9
	Minimum	66	78	76	60	70	74	74	76	74	69	72	74	74	70	67	72	60	62	68	68	57	58	61	65	74	68	70	56	57	59	51	67.1

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 8-20-25—860.

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UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.
GEORGE REEDER, Meteorologist.

Vol. XXIX. Columbia, Mo., August, 1925. No. 8.

GENERAL SUMMARY.

August, 1925, in Missouri was about normal in all main climatic elements for the State as a whole, except sunshine which was considerable more than usual; but was to an unusual degree variable in the several sections. It was wetter than usual in the northern half of the State, with some large local amounts. In southern sections and especially the southeastern and southwestern divisions it was very dry and hot. August was mainly cool in the first half and hot the latter half, reversing the conditions prevalent in the preceding July. There were some local thunderstorm squalls but no damaging storms.

The month was mainly favorable for crops, save in most of the southern sections, where it was too dry for late planted crops and pastures. In ten or more of the southwestern counties having Benton and Hickory as the center, and much of the Ozark Plateau and southeastern lowlands, the lack of moisture this month taken in connection with the shortage in July was not productive of the best results in farm operations. Early planted corn, however, was far advanced toward maturity and was not seriously affected. There was not much plowing for fall seeding done in the dry sections, but made the usual progress elsewhere.

TEMPERATURE.

The monthly mean temperature for the State was 76.5° or about 0.5° higher than the 36-year normal. The northern half of the State, and the Ozarks differed but slightly from the usual, but it was noticeably warmer than the normal in the southwestern plain and the southeastern lowlands because it was much drier in those parts. Temperatures alternated above and below the normal the first half of the month. Hot weather began about the 18th, and the last week was continuously hot. The extremes, 107° and 45°, are quite within the limits of other years. About half of the days had 90° or higher.

PRECIPITATION.

The precipitation for the State, 99 stations reporting, was 3.45 inches, or 0.23 inch less than the 56 years' average. The month's moisture was unevenly distributed. From the Missouri River northward there was quite a large excess, while over the southern half of the State there was a marked deficiency, drought conditions being pronounced at the end of the month in some 10 or more of the west-central counties. In the northwestern plateau there were some unusually large amounts, 11.24 inches at Maryville, being the greatest. Nearly all of the monthly rain fell during the the first twenty days, the last ten being nearly rainless. The greatest amount in any 24 consecutive hours was 4.26 inches, at Tarkio on the 6th.

WIND.

The prevailing winds were from the south. The average movement based upon the reports of 8 stations equipped with anemometers, was 4,734 miles, or about 6.4 miles an hour, and about 6 per cent less than normal. There were a few strong thundersqualls on the 11th, 12th, 17th, 18th, and 31st.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine for the State, six well placed stations equipped with sunshine recorders reporting, was 340, 80 per cent of the possible and about 9 per cent more than normal. The current month had about 6 per cent more sunshine than August, 1924, and 12 per cent more than the same month in 1923.

MISCELLANEOUS PHENOMENA.

Hail, small, without damage.---Clifton Hill, 10th; St. Louis University, 12th; Gano, 16th; Warrenton, 19th. At Seymour on 17th small damage to corn and fruit. At Maryville severe electrical storm with hail night 16th.

Halos, solar.---6th, 13th, 15th, 16th, 17th, and 19th.

Halos, lunar.---5th, and 31st.

Thunderstorms.---Local, 2d, 3d, 4th, 6th, 8th, 9th, 13th, and 15th. More or less general on the 7th, 10th, 11th, 12th, 16th, 17th, 18th, 19th, and 20th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	30.04	85	66	340	80	3,966	5.3	22	nw.	16
Hannibal	30.05	84	..	...	..	4,293	5.8	26	sw.	10
Kansas City	30.02	74	47	373	88	5,743	7.7	29	ne.	17
St. Joseph	30.01	82	56	340	80	4,530	6.1	45	nw.	16
St. Louis	30.04	75	51	317	75	6,436	8.7	57	sw.	12
Springfield	30.05	72	48	345	82	5,955	8.0	39	w	7
Cairo, Ill	30.04	78	53	...	..	3,920	5.3	40	w.	18
Keokuk, Iowa	30.06	79	61	327	77	3,305	4.4	35	nw.	18

COMPARATIVE DATA FOR AUGUST.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	74.0	−1.6	110	48	7.25	−3.80	......	0	11	....	....	....
1889	73.5	−2.1	101	52	1.96	−1.49	......	0	14	....	....	....
1890	73.3	−2.3	104	49	4.84	+1.39	......	0	9	....	....	....
1891	73.2	−2.4	108	38	5.34	+1.89	......	0	8	....	....	....
1892	74.3	−1.3	100	40	2.42	−1.03	4.55	0	6	17	8	6
1893	72.8	−2.8	100	40	2.20	−1.25	5.60	0	4	18	10	3
1894	77.0	+1.4	111	39	1.58	−1.87	3.07	0	5	14	16	1
1895	75.3	−0.3	104	48	4.23	+0.78	3.50	0	8	15	11	5
1896	76.6	+1.0	108	41	3.25	−0.20	4.80	0	6	17	10	4
1897	74.1	−1.5	108	41	2.39	−1.06	5.00	0	6	19	9	3
1898	75.8	+0.2	103	44	3.03	−0.42	4.75	0	5	17	10	4
1899	78.8	+3.2	107	49	3.35	−0.10	4.28	0	7	18	10	3
1900	80.3	+4.7	105	52	3.51	+0.06	2.77	0	6	19	9	3
1901	78.4	+2.8	109	47	1.88	−1.57	4.33	0	5	19	9	3
1902	75.0	−0.6	103	47	6.16	+2.71	7.84	0	10	14	11	6
1903	74.4	−1.2	102	43	5.40	−1.95	6.40	0	10	16	11	4
1904	73.7	−1.9	100	43	5.46	+2.01	4.43	0	[illegible]	16	10	5
1905	76.4	+0.8	102	48	4.69	+1.24	3.94	0	8	19	7	5
1906	76.6	+1.0	101	40	4.72	+0.27	3.55	0	11	14	10	7
1907	77.3	+1.7	109	47	3.71	+0.26	6.30	0	9	17	8	6
1908	76.4	+0.8	102	46	3.87	+0.42	3.57	0	8	17	9	5
1909	79.5	+3.9	110	40	0.55	−2.90	4.00	0	2	24	6	1
1910	74.7	−0.9	103	40	2.77	−0.68	5.80	0	6	15	9	7
1911	75.4	−0.2	109	41	4.20	+0.55	5.17	0	7	15	8	8
1912	76.2	+0.6	104	41	4.19	−0.74	2.62	0	9	17	8	6
1913	82.8	+6.9	110	41	1.06	−2.51	3.51	0	3	22	7	2
1914	78.0	+1.8	106	49	4.25	+0.60	8.50	0	9	15	9	7
1915	69.8	−6.5	98	37	7.86	+4.15	8.20	0	12	12	9	10
1916	79.2	+2.9	107	41	4.05	+0.49	6.48	0	7	19	7	5
1917	73.3	−2.9	104	38	4.45	+0.94	5.20	0	9	16	8	7
1918	81.8	+5.8	111	45	3.34	−0.27	3.42	0	8	17	9	5
1919	75.7	−0.5	106	44	4.29	+0.49	7.00	0	8	17	9	5
1920	73.1	−3.0	102	43	4.78	+0.89	5.77	0	9	15	8	8
1921	76.8	+0.8	109	48	5.27	+1.63	5.20	0	9	14	10	7
1922	77.5	+1.[illegible]	107	46	2.40	−1.60	3.87	0	6	18	8	5
1923	77.3	+1.3	108	42	3.99	+0.31	5.25	0	8	16	9	6
1924	77.2	+1.2	106	48	4.14	+0.46	3.50	0	7	19	8	4
1925	76.5	+0.5	107	45	3.45	−0.23	4.26	0	6	19	8	4

Climatological Data for August, 1925.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	77.2	+ 3.4	101	18	51	1†	40	5.08	+1.19	1.30	0	8	22	0	9	nw.	O. K. Benecke
Clifton Hill	Randolph	731	26	75.7	− 0.5	98	18†	52	1	34	8.54	+4.51	2.55	0	8	15	13	3	......	Dr. A. J. Bradsher
Columbia	Boone	748	35	75.8	+ 0.2	97	18	54	2	31	5.11	+2.07	1.47	0	7	18	9	4	se.	U. S. Weather Bureau
Downing	Schuyler	878	4	74.8	......	98	29	51	21	34	4.65	+1.13	2.00	0	9	23	5	3	s.	E. E. St. Clair
Fayette	Howard	661	45	75.5[a]	− 0.6	100	18	51	1	36	5.49	+2.27	1.50	0	5	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	37	75.6	− 0.9	98	18	51	3	35	2.94	−0.57	1.02	0	7	26	4	1	......	Chamber of Commerce
Gorin	Scotland	700	38	....	......	..	..	..	..	..	4.26	+1.26	1.45	0	9	12	12	7	sw.	J. W. Pulliam
Hannibal	Marion	534	33	75.6	+ 0.6	95	29	53	2	32	4.67	+1.29	1.24	0	10	17	12	2	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	37	76.4	+ 0.3	100	18	52	1	34	4.98	+1.92	1.55	0	9	24	5	2	e.	Miss Emma Swift
Kirksville	Adair	969	36	73.8	− 0.2	94	18	52	21	35	2.88	−0.44	1.10	0	6	22	7	2	s.	Prof. J. S. Stokes
Louisiana	Pike	469	31	75.2	+ 0.2	97	19†	48	2†	44	3.86	+0.13	2.05	0	8	24	7	0	e.	J. T. Farrell
Macon	Macon	875	26	75.4	− 0.9	98	18	52	1	35	6.52	+3.24	2.10	0	9	18	8	5	sw.	W. C. Brown
Mexico	Audrain	800	36	76.6	+ 0.5	98	18†	54	1	35	3.54	+0.29	1.34	0	7	29	0	2	se.	Mrs. Abbie Snoddy
St. Catharine	Linn	800	14	74.8	+ 0.7	95	18	54	21	31	4.12	+0.42	2.45	0	7	17	11	3	se.	L. D. Baker
St. Charles	St. Charles	456	37	76.8	+ 0.1	100	18†	50	5	42	2.88	−0.58	1.10	0	6	19	7	5	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	78.3	+ 0.8	98	19	58	1	26	2.75	+0.09	1.79	0	8	19	10	2	sw.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	78.1	+ 0.9	98	19†	56	1	26	2.67	−2.94	1.78	0	9	20	8	3	se.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	..	..	..	2.93	+0.08	1.34	0	9	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	27	76.1	− 0.6	98	25	52	2†	46	7.82	+4.35	3.55	0	8	13	16	2	e.	Frank Hall
Unionville	Putnam	1,062	32	74.2	− 0.8	96	29	47	21	36	3.65	−0.31	1.50	0	6	18	8	5	n.	Geo. W. Davis
Warrenton	Warren	816	43	77.2	+ 0.8	98	29	54	1	32	4.62	+1.44	1.05	0	9	18	11	2	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	75.2	+ 0.2	94	29	56	1	28	4.68	+1.44	2.02	0	8	10	17	4	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	75.9	+ 0.2	101	18	47	21	46	4.48	+1.01	3.55	0	8	19	9	3	se.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	29	85.8	+ 6.1	105	19	60	3	31	1.01	−2.56	0.35	0	4	23	6	2	w.	L. W. Dillman
Doniphan	Ripley	344	21	78.4	+ 1.0	102	19	52	1	39	3.13	−1.18	0.92	0	5	16	5	10	sw	W. W. Martin
Jackson	Cape Girardeau	428	34	77.4	+ 1.2	103	29	50	1	43	0.85	−2.76	0.40	0	8	10	10	11	s.	John G. Putz
Marble Hill	Bollinger	470	30	77.6	+ 0.6	101	19†	50	1	42	2.62	−0.88	1.30	0	6	17	14	0	s.	R. A. DeWitt
Parma	New Madrid	281	4	....	......	..	..	..	..	..	1.51	......	0.66	0	4	..	..	..	......	O. O. Stires
Patton (near)	Bollinger	500	16	....	......	..	..	..	..	..	1.32	−3.22	0.50	0	6	..	..	..	......	George F. Ellis.
Poplar Bluff††	Butler	339	21	77.8	− 0.2	103	19	54	1†	38	2.07	−2.20	0.75	0	5	24	6	1	s.	J. H. Wolpers
Vanduser	Scott	304	24	....	......	..	..	..	..	..	1.27	−2.54	1.09	0	3	..	..	..	.....	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	50	79.2	+ 1.4	100	19	58	1	29	0.60	−2.33	0.27	0	5	14	14	3	s.	U. S. Weather Bureau
Section means and	extremes	....	..	79.7	+ 2.1	105	19	50	1	43	1.54	−2.21	1.30	0	5	16	10	5	s.	
Ozark Plateau.																				
Arcadia	Iron	926	44	73.6[b]	− 0.9	98	29	51	1†	40	2.27	−1.45	1.17	0	5	29	0	2	sw.	Arcadia College
Birchtree	Shannon	1,000	30	77.7	+ 1.8	102	19	52	1	34	2.97	−1.42	0.95	0	5	26	4	1	e.	V. H. Kirkendall
Bolivar††	Polk	1,071	31	77.8	+ 0.8	101	18	53	1	40	1.78	−1.90	0.90	0	7	21	10	0	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	.....	H. E. Dean
Eldon	Miller	934	29	77.5[b]	+ 1.1	105	18	50	1	38	2.00	−1.98	0.62	0	6	6[a]	8[a]	16[a]	sw.	E. H. Shepherd
Farmington	St. Francois	918	14	77.4	+ 2.6	104	19	53	1†	42	1.18	−2.20	0.34	0	7	20	9	2	w.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	76.6	+ 0.5	100	18†	50	1	40	4.31	−0.10	1.65	0	8	23	6	2	se.	A. C. Leach
Goodland	Iron	1,000	31	73.8	− 0.7	99	18	46	1	43	2.23	−1.80	1.15	0	3	19	8	4	s.	F. M. Adams
Greenville	Wayne	381	3	74.8	......	100	18	47	1	47	1.96	......	1.02	0	4	26	1	4	s.	Wm. P. Owens
Hailey	Barry	1,350	0	....	......	..	..	..	..	..	2.43	.....	1.04	0	6	15	11	5	w.	A. W. Madison
Hollister	Taney	735	38	76.4	− 1.5	105	18†	48	2	46	2.10	−1.87	1.10	0	3	22	5	4	s.	Mrs. W. P. Chapman
Houston	Texas	1,280	30	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	.....	Hugh Stone
Koshkonong	Oregon	958	24	79.6[a]	+ 1.9	103	19	55	1	34	1.32	−3.13	0.61	0	4	21[a]	5[a]	4[a]	sw.	R. M. Hitt
Lebanon	Laclede	1,265	37	75.1	− 1.2	101	18†	48	1†	47	2.39	−1.14	1.10	0	6	23	7	1	s.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	77.4	+ 0.2	98	18†	53	1	36	2.07	−2.10	0.90	0	4	24	6	1	sw.	C. S. Crow
Mountain Grove	Wright	1,463	24	76.7	+ 1.6	99	17	49	1	40	3.15	−1.25	1.55	0	6	18	13	0	sw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	76.0	− 0.9	97	16†	50	1	42	2.69	−1.40	1.55	0	6	22	9	0	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	77.0	+ 1.2	100	19	51	1	32	2.02	−2.06	1.13	0	5	22	9	0	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	77.1	+ 1.5	98	17†	51	1	33	1.57	−2.42	0.87	0	5	21	9	1	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,642	19	72.8	− 2.2	95	18	45	1	38	4.09	+0.25	1.15	0	6	26	4	1	s.	Ira H. Hailey
Springfield	Greene	1,350	37	77.2	+ 1.5	96	18	54	1	28	1.74	−2.57	0.72	0	8	25	6	0	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	76.4	+ 0.4	105	18†	45	1	47	2.33	−1.68	1.65	0	5	21	7	3	sw.	
Southwest Plain.																				
Amoret	Bates	831	18	76.9	+ 0.5	103	18	52	1†	42	1.03	−2.98	0.45	0	4	24	6	1	n.	Andrew Rood
Appleton City	St. Clair	853	31	78.3[f]	+ 0.5	102	11†	54	1	35	1.60	−2.14	0.86	0	3	18[f]	6[f]	1[f]	ne.	W. G. Bigelow
Clinton	Henry	765	32	80.6	+ 3.8	105	18	55	1	37	1.38	−1.98	0.90	0	3	19	11	1	se.	A. E. Derwent, M. D
Harrisonville	Cass	904	48	76.7	+ 0.9	104	18	52	1	36	3.23	−0.92	1.80	0	4	6	0	25	e.	John H. Patterson
Lamar	Barton	980	38	78.4	+ 0.9	100	18†	52	1	43	1.22	−2.96	0.85	0	5	19	10	2	sw.	Jesse A. Mann
Lamonte	Pettis	867	24	78.8	+ 2.1	107	18	51	1	40	2.82	−0.90	0.80	0	7	22	7	2	se.	J. E. Wheeler
Marshall	Saline	779	36	78.0	+ 2.4	104	18	52	1	39	6.53	+2.87	2.31	0	7	17	12	2	ne.	Dr. W. H. Black
Nevada	Vernon	862	32	77.6	+ 0.7	100	12	51	1	36	2.17	−1.34	1.21	0	4	25	5	1	s.	George A. Kaupp
Warrensburg	Johnson	878	38	79.0[a]	+ 2.0	103	18	54	1	31	1.34	−2.25	0.62	0	6	24	6	1	sw.	L. B. Johnston
Warsaw	Benton	687	25	78.0	+ 0.6	105	18	51	1	42	2.65	−1.64	1.39	0	5	14	12	5	e.	Everett Martin
Section means and	extremes	.....	..	78.2	+ 1.4	107	18	51	1	43	2.40	−1.42	2.31	0	5	19	8	4	e.	
Northwest Plateau.																				
Avalon	Livingston	730	35	76.0	− 0.6	100	18	53	21	38	6.35	+2.74	2.50	0	6	23	8	0	sw.	F. G. Ashbaugh
Bethany	Harrison	916	33	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	...	Owen Ross
Chillicothe	Livingston	779	16	74.4	− 1.7	97	18	52	21	35	5.90	+1.24	1.97	0	8	21	7	3	se.	Wm. J. Olenhouse
Conception	Nodaway	980	36	74.5	− 0.1	100	18	55	10	33	8.04	+4.56	2.18	0	7	9	16	6	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	74.8	......	102	18	50	1	36	2.93	−0.91	1.10	0	6	29	1	1	s.	Fred L. Stiff
Grant City	Worth	1,134	21	75.8	+ 0.9	96	30	53	22	34	7.94	+4.31	1.96	0	7	19	7	5	s.	B. F. Locke
Kansas City	Jackson	963	36	78.2	+ 1.6	103	18	59	21	27	1.65	−3.10	0.80	0	6	19	11	1	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	74.8	− 0.9	102	18	51	21	39	3.63	−0.28	1.12	0	6	18	6	7	se.	Linn Terry
Lexington	Lafayette	688	40	76.6[a]	+ 0.6	103	18	56	1†	33	2.05	−1.18	0.92	0	7	22	7	2	s.	Edwin G. Loomis
Liberty	Clay	859	35	77.8[a]	+ 0.8	105	18	52	1	39	1.21	−2.72	0.85	0	3	25	5	1	......	W. F. Aull
Maryville	Nodaway	1,169	35	74.2	+ 0.6	96	18	53	21	30	11.24	+7.38	3.90	0	8	18	1	12	s.	J. R. Brink
Oregon	Holt	1,048	69	73.8	− 1.2	92	18	55	1	28	7.66	+3.69	2.45	0	6	18	9	4	se.	Tom Curry
St. Joseph	Buchanan	967	17	76.3	− 0.6	100	18	56	21	29	4.63	+1.46	1.51	0	10	21	8	2	se.	U. S. Weather Bureau
Tarkio	Atchison	916	22	74.3	− 1.3	98	18	50	21	33	11.03	+7.16	4.26	0	6	17	7	7	se.	Albert Volker
Trenton	Grundy	822	29	73.4	− 1.8	93	18	54	21	26	4.67	+1.05	1.34	0	8	21	9	1	se.	W. H. Estes
Section means and	extremes	.....	..	75.4	− 0.3	105	18	50	1†	39	5.64	+1.81	4.26	0	7	20	7	4	se.	
State means and	extremes	.....	..	76.5	+ 0.5	107	18	45	1	47	3.45	−0.23	4.26	0	6	19	8	4	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b], represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for August, 1925.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri							.60				.48	.30				1.72	.30	.50		1.15	.08											5.13
Brunswick‖	Grand							.60				.30	.73				1.30	.12	.28		1.07	.68											5.08
Clifton Hill	Chariton						.06	.40			2.20	1.95	.15				.30	.93			2.55												8.54
Columbia***	Missouri						T.	.76			.26	1.09	.31				.90	.32			1.47												5.11
Downing	Mississippi		.01	.01			.13	.53				.70	2 00	T.			T.	.22		.03	1.02												4.65
Fayette‖‖	Missouri							.30				1.13					1.50	1.33			1.23												5.49
Fulton‖	do							.44					.97	.11		.06	.03	.31			1.02												2.94
Gorin	Mississippi						.12	.33		.02		.48	1.45				.03	.25	.68		.90												4.26
Hannibal***	do						.27	.90			.23	.55	.59				.04	.13	.72	.04	1.20												4.67
Hermann‖	Missouri							T.	.50			1.05	.93	.13			.02	.04	T.		.63	.03											3.33
Jefferson City‖	do							.32	.14				1.55	.65			.62	.60	.03		1.00	.07											4.98
Kirksville	Mississippi				.24		.37							1.10			.02	.40	.75														2.88
Louisiana	do							.74			.02	.28	.46				.05	.06	.20	T.	2.05												3.86
Macon‖	Chariton							.80	.05			1.85	.84				.08		.55		2.10	.05											6.52
Mexico‖	Mississippi			.20				.72	.38			.05	1.34					.08	.30			.67											3.54
Milan‖	Grand				.08			.75			.74	.28					.10	.20			1.08	.10											3.33
Pacific‖	Meramec								.16				1.00	.76	T.						.33	T.											2.25
St. Catharine	Grand	T.					.17	.32				.50	.26				.05	.37		T.	2.45												4 12
St Charles	Missouri							.19			T.	1.10	.36	.13			T.		.32		.78												2.88
St Louis (1)***	Mississippi	T.			T.			.09			.07	1.79	.38	.04			T.		.02	05	.31												2.75
St. Louis (2)	do				T.			.09			.03	1.78	.24	.03			.03		.02	.10	.35												2.67
Shelbina‖‖	do							.24	.02			.10	.66	.02				.08	.21		1.34	.26											2.93
Steffenville	do			.25			.05	.80			T.	.32	.85				T.	.20	3.55	T.	1.80												7.82
Union‖‖	Meramec								.24			.03	.81	.90				.10			.32	.02											2.42
Unionville	Chariton	T.		T.			.20	.50				1.30	.20					.20		T.	1.25												3.65
Valley Park‖‖	Meramec												2.00	1.15				T.			.38												3.53
Warrenton	Mississippi							.21	.17		.20	1.02	.95	.50			.12			.40	1.05												4.62
Keokuk, Ia.***	do						.01	.97		.72		.34	1.68				T.	.14	.45	T.	.37												4.68
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi		.02										.27	.03				.04		.23		.09											0.68
Caruthersville	do		.10						.35			.26					T.				.30												1.01
Doniphan	Black								.37					.20		.08	.92				.90											.66	3.13
Jackson	Mississippi		.06					.13				.40	.03	.16			.04		.02		.01												0.85
Marble Hill	Mississippi							.10				1.30	.33	.16			.28				.45												2.62
New Madrid‖	do								.22	.15			T.		.11			.16				.43											1.07
Parma	St. Francis									.46				.10			.29				.66												1.51
Patton (near)	Mississippi			.50								.31	.20	.06			.08		.17		T.												1.32
Poplar Bluff	Black			.03								.75	.06			.75					.48												2.07
Vanduser	Mississippi												1.09				.13				.05												1.27
Cairo, Ill.***	do							T.	.02			.27	T.	.10			T.		.12		.09												0.60
Ozark Plateau.																																	
Annapolis‖	St. Francis																																....
Arcadia‖	do		.08						.62			T.	1.17	.23			T.	.17				T.											2.27
Birchtree	Black								.27		.95	.08	.77								.90												2.97
Bolivar	Osage		.21	.22	.19			.23			.90			T.		.02		.01															1.78
Dean	Neosho																				.06												....
De Soto‖‖	Mississippi																																....
Eldon‖‖	Missouri							.47				.62	.22				.22			.22	.25												2.00
Farmington	St. Francis	.05						.22	T.			.34		.09			.18		.27													.03	1.18
Fredericktown‖‖	do							.25			.20					.16				.31		.40			T.								1.32
Galena‖‖	White																																....
Gano	Meramec	.11							.09		.05	.59	.05	.43			1.34															1.65	4.31
Goodland	Black											1.15		.23			.85																2.23
Greenville	St. Francis							.13				.42		.39			1.02																1.96
Hailey	White							.02	.18		.28	.16		.75		1.04																	2.43
Hollister	do									1.10					.40						.60												2.10
Houston	Gasconade																																....
Jerome‖	do				.03				.21			.22	.05	.15			1.54	.56															2.76
Koshkonong	Black								.61			.08									.40	.23											1.32
Lebanon‖	Osage			T.					.87			1.10	.01	.30			.04		.06			T.									.01		2.39
Lockwood	do			.20				.15			.90			.82																			2.07
Mountain Grove‖	White		T.		.01			.42	.49		.24			1.55							T.	T.										.44	3.15
Neosho	Neosho	T.	T.				T.	.04	.39	.08	T.	.18		1.55		.45					T.												2.69
Rolla	Meramec							.17			.10		.15			1.13	.47																2.02
Seligman	Neosho							.32	.87		T.	.07		.12							.19												1.57
Seymour (near)	White			T.				1.02			1.02	.04		1.15		.03		.83															4.09
Springfield***	do			.08				.72			.14	T.	.11	.56		.06	.04			.03												T.	1.74
Steelville‖	Meramec								.37			.06	.31	.25			.95	.62															2.56
Tuscumbia‖	Osage				.12			.56	.32				.09	.39			.05				.15	.07											1.75
Willow Sprgs.‖‖ (near)	White			.12	.15				.10			.26	.08	1.11							T.												1.82
Southwest Plain.																																	
Amoret	Osage			.03				.40			.15										.45										T.		1.03
Appleton City	do							.69			.05										.86												1.60
Clinton	do							.90										.13			.35												1.38
Harrisonville‖	do							.29				.54	.60								1.80												3.23
Joplin*	Neosho	T.		.08				.04	.11		.05		.41	.30		.57																T.	1.56
Lamar‖	do				T.			.10	.02		.10	T.		.85			.15					T.											1.22
Lamonte	Missouri			.04				.35			.15	.68		.35				.80			.45												2.82
Marshall	do						T.	.50			.48	.46	.36				.38	2.04			2.31												6.53
Nevada	Osage										.20		1.21	.60							.16												2.17
Osceola‖‖	do							.24	.86			.25		.87							.20												2.42
Warrensburg	Missouri		T.	T.			T.	.05			.09	.62					.01	.10			.47												1.34
Warsaw	Osage		T	.11			T.	.51			T.		1.39	.19		T.	T.	T.			.45												2.65
Waverly‖	Missouri							.46				.39	.14				.14	1.25	.03		1.03	.02										T.	3.46
Northwest Plateau.																																	
Albany‖‖	Grand						1.67	.28				1.18	.29				.35	2.00			2.68												3.45
Avalon	do							.50			.65	1.05					1.50	.15		2.50													6.35
Bethany	do																																....
Chillicothe‖‖	do			.03			T.	.12				.45	1.20				1.32	.73	.08		1.97												5.90
Conception	Missouri						2.11	.19				1.30	.44				.07	1.75		T.	2.18												8.04
Edgerton	do						.20	.08				.50	.27			T.		.78			1.10												2.93
Gallatin‖	Grand		T.					.65				.67	1.01	.10			1.20	.52			1.80												5 95
Grant City	do		T.		T.		1.96	.08				1.56	.60				.96	1.83		T.	.95												7.94
Kansas City***	Missouri		T.				.05	.56			.12	.12	T.					T.		.44	.36										T.		1.65
Kidder‖	Grand							.74				.37	.74					57	.09		1.12												3.63
Lexington‖	Missouri	.01						.30				.60		.03				.15			.92	.04											2.05
Liberty‖	do							.20				.16									.85												1.21
Maryville	do					.02	21	2.00				.80	.88				.04	3.90			3.39												11.24
Oregon	do						1.37					2.25	.67				.25	2.45			.67												7.66
St. Joseph***	do				.04		.65	.01			.56	.95	.22				.39	.57		.63	.61												4.63
Tarkio	do						4.26					1.33	.93				.17	1.27			3.07												11.03
Trenton	Grand		.01	T.			.26	.11				.77	.21			T.	1.09	.88		T.	1.34												4.67

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for August, 1925.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	82	88	90	92	93	85	85	90	95	95	92	90	86	91	89	90	94	101	96	82	84	88	90	92	95	93	92	95	98	93	94	91.0
	Minimum	51	56	57	58	68	64	66	63	63	68	70	70	67	51	60	63	66	68	73	68	57	56	59	65	63	62	64	67	66	67	65	63.3
Columbia	Maximum	78	82	86	88	89	93	88	85	90	90	87	93	84	84	84	86	88	97	94	77	77	82	85	89	89	89	88	92	95	93	90	87.5
	Minimum	55	54	57	57	61	68	69	65	63	68	70	69	65	60	63	66	69	74	72	61	58	59	60	65	62	62	67	68	66	70	68	64.2
Fayette	Maximum	84	86	88	91	89	89	88	90	94	91	90	90	85	88	86	88	90	100	95	..	81	83	88	90	92	92	90	93	95	92	94	[a]89.7
	Minimum	51	54	53	55	56	57	67	60	60	64	66	67	65	59	59	62	66	65	71	66	..	55	56	63	58	60	65	65	65	64	64	[a]61.3
Hannibal	Maximum	75	82	85	87	90	84	85	83	91	93	82	91	85	82	86	86	90	94	91	78	75	82	86	90	89	92	84	89	95	94	90	86.6
	Minimum	54	53	57	57	58	66	68	66	67	68	71	70	67	63	61	67	72	70	71	62	59	61	62	68	64	65	65	66	68	72	68	64.7
Jefferson City §§	Maximum	81	74	89	91	71	96	90	87	94	90	96	98	86	84	84	86	89	100	96	77	78	83	87	90	90	90	90	91	99	98	91	88.6
	Minimum	52	57	57	57	61	65	69	65	63	67	69	68	68	64	61	63	66	70	73	69	60	58	60	66	64	63	63	64	68	69	69	64.1
Kirksville	Maximum	79	83	88	88	90	90	80	87	90	91	81	86	84	83	85	88	82	94	87	79	76	83	83	88	92	89	84	91	91	91	90	86.2
	Minimum	53	54	55	58	61	69	66	60	63	65	65	68	63	58	60	63	66	66	66	65	52	58	57	56	57	66	61	62	64	64	60	61.3
Louisiana	Maximum	78	84	88	90	93	90	87	95	90	96	86	95	91	85	88	88	90	96	97	84	78	84	88	92	92	92	91	91	97	95	94	89.8
	Minimum	50	48	50	51	50	58	68	64	67	64	68	68	67	58	55	60	78	70	68	67	54	55	55	60	57	48	65	60	60	65	67	60.5
Macon §§	Maximum	81	84	90	91	94	80	87	89	93	93	87	86	84	85	87	90	91	98	94	80	80	85	82	90	95	91	90	94	95	94	94	88.8
	Minimum	52	54	57	58	59	61	67	61	62	67	68	69	65	60	60	62	67	66	69	62	53	54	58	63	60	63	63	63	65	66	64	61.9
Mexico §§	Maximum	80	83	88	90	93	92	89	83	92	95	89	94	87	86	97	89	89	98	98	78	79	85	89	92	91	93	98	94	98	95	92	90.2
	Minimum	54	54	55	57	60	65	67	64	63	65	69	70	65	60	62	65	67	70	72	69	55	58	58	64	61	61	64	64	63	67	66	63.0
St. Catharine	Maximum	78	84	88	88	90	82	82	82	92	89	80	86	86	84	86	87	85	95	89	79	76	82	84	88	90	85	82	90	93	93	89	85.9
	Minimum	55	55	57	59	59	66	67	61	63	66	68	69	65	60	63	66	66	71	74	66	54	59	60	66	63	66	65	67	67	67	66	63.7
St. Louis(1)	Maximum	77	80	83	84	89	91	83	83	91	92	85	96	83	84	85	85	88	95	98	76	77	83	90	91	88	89	88	90	97	96	91	87.4
	Minimum	58	62	67	66	66	69	73	70	69	74	70	70	70	71	69	70	71	79	76	69	63	63	65	71	69	69	66	67	72	75	75	69.2
Unionville	Maximum	84	88	87	91	94	86	80	90	92	93	84	86	84	85	87	85	90	95	90	84	80	85	88	91	93	90	88	95	96	90	93	88.5
	Minimum	52	52	52	54	58	63	65	56	65	60	64	66	62	52	60	61	65	66	67	64	47	55	57	60	60	64	60	63	64	65	60	60.0
Warrenton	Maximum	79	82	85	88	93	95	90	84	97	93	86	97	87	83	87	86	87	96	97	80	78	84	89	92	90	91	88	93	98	97	92	89.2
	Minimum	54	57	61	59	65	67	68	65	65	70	69	68	67	62	62	65	68	73	72	68	59	68	67	63	61	61	63	64	67	71	69	65.1
Southeast Lowlands.																																	
Caruthersville	Maximum	95	97	90	92	95	97	101	96	94	92	100	101	100	102	104	86	103	103	105	104	99	98	98	97	99	98	99	99	102	100	101	98.3
	Minimum	74	75	60	62	69	73	66	69	69	71	75	77	81	81	75	74	80	79	78	83	72	75	75	75	74	71	70	70	71	75	76	73.4
Doniphan	Maximum	85	90	90	93	96	97	98	88	93	94	99	102	93	92	95	85	96	101	102	98	82	84	89	90	92	92	94	95	98	93	96	93.3
	Minimum	52	55	56	56	57	61	70	70	69	67	71	69	74	67	61	67	67	69	69	69	62	59	58	62	59	58	58	64	64	65	66	63.6
Jackson	Maximum	81	84	88	91	92	95	95	89	93	96	91	97	92	89	93	88	98	102	102	97	84	88	94	96	95	95	97	99	103	95	100	93.5
	Minimum	50	56	54	56	57	77	62	69	63	65	70	68	64	62	59	66	63	68	67	69	53	54	56	55	53	59	55	65	60	61	65	61.3
Poplar Bluff	Maximum	86	92	91	91	95	97	98	93	89	98	95	99	99	94	95	86	100	98	103	98	88	82	89	83	93	91	90	88	101	90	89	92.9
	Minimum	54	55	55	54	58	64	69	66	65	70	69	69	65	61	66	65	68	68	68	60	64	56	59	59	60	57	66	62	63	65	66	62.8
Cairo, Ill.	Maximum	79	82	87	87	90	91	92	86	87	91	88	97	88	88	90	84	95	98	100	91	82	84	89	91	92	93	94	94	94	89	95	89.9
	Minimum	58	63	65	63	66	70	70	72	73	71	72	72	72	71	67	71	69	69	72	71	66	62	63	68	67	68	66	71	69	72	73	68.5
Ozark Plateau.																																	
Arcadia §§	Maximum	..	..	84	85	87	88	83	88	86	87	87	96	83	86	83	84	88	97	97	86	81	82	86	88	88	91	90	94	98	91	93	[b]88.2
	Minimum	51	52	52	54	55	57	62	67	59	63	66	66	67	61	56	61	65	70	66	68	56	53	51	55	54	52	51	56	58	62	65	59.1
Birchtree	Maximum	81	86	88	88	92	93	94	87	94	86	94	97	86	85	88	86	97	100	102	96	92	82	88	89	92	92	95	95	100	94	95	91.4
	Minimum	52	56	58	57	59	64	72	69	66	67	67	68	66	64	61	68	64	68	78	66	59	60	59	61	60	60	61	69	69	69	67	64.0
Eldon §§	Maximum	89	90	92	93	97	91	93	95	82	96	100	96	..	91	91	96	105	93	79	82	88	92	94	94	93	96	100	101	98	95	..	[b]93.2
	Minimum	50	56	56	56	60	66	65	62	61	67	69	68	62	..	59	60	69	72	70	58	55	55	63	59	59	57	59	62	65	69	65	[a]61.8
Farmington	Maximum	82	84	87	92	95	92	87	90	92	93	92	99	87	90	90	87	96	102	104	92	82	87	93	95	92	93	95	97	102	98	97	92.4
	Minimum	53	54	56	55	58	60	67	68	68	74	68	67	68	66	64	66	66	66	69	69	58	55	54	53	64	56	55	64	64	66	66	62.5
Hollister	Maximum	85	84	88	84	82	98	96	98	96	92	92	90	90	98	98	98	103	105	105	102	102	86	84	92	95	96	97	98	100	100	99	94.6
	Minimum	50	48	52	51	50	52	54	54	65	64	62	60	60	66	60	65	65	65	66	65	62	55	54	52	55	56	53	60	62	60	65	58.3
Koshkonong	Maximum	79	84	88	91	92	93	95	84	90	89	96	..	99	90	92	92	98	102	103	99	85	86	91	93	95	94	97	96	98	93	97	[a]92.7
	Minimum	55	61	60	59	63	66	72	69	67	71	70	..	79	68	62	73	68	73	75	69	64	58	60	64	65	65	63	65	70	72	72	[a]66.6
Lebanon §§	Maximum	81	85	88	91	93	94	90	87	93	82	93	96	83	85	85	85	95	101	100	86	85	87	94	95	95	95	97	99	101	100	97	91.5
	Minimum	48	48	54	54	55	57	63	63	59	65	66	66	65	59	59	59	68	68	71	68	54	53	54	57	55	51	52	52	54	62	61	58.7
Mountain Grove §§	Maximum	82	86	85	88	91	91	92	88	93	88	87	96	87	87	85	85	99	98	98	91	84	84	88	90	94	95	93	94	97	94	94	90.5
	Minimum	49	53	54	54	60	65	69	61	61	70	64	74	64	62	61	69	68	70	73	69	56	59	59	64	57	55	57	66	69	69	69	62.9
Neosho	Maximum	81	85	86	87	89	88	90	85	88	91	93	94	92	88	89	97	97	97	96	96	84	86	90	93	92	91	93	93	95	94	94	90.8
	Minimum	50	53	55	52	56	63	71	67	61	70	66	76	66	58	60	72	70	70	69	75	55	52	53	61	53	56	51	56	58	59	62	61 2
Rolla	Maximum	76	85	86	88	90	93	87	91	93	91	92	98	90	87	86	90	93	98	100	88	81	84	88	88	91	91	93	94	97	97	93	90.3
	Minimum	51	55	57	57	60	64	70	66	64	68	68	70	67	62	59	61	70	73	73	70	52	58	57	64	61	60	61	66	69	73	70	63.7
Springfield	Maximum	78	82	82	83	87	87	90	85	90	86	92	94	80	84	85	88	92	96	95	90	82	82	86	87	89	89	92	93	94	93	90	87.8
	Minimum	54	60	60	61	63	67	67	68	66	69	69	67	65	66	65	73	72	75	75	67	62	61	63	69	68	69	64	67	71	70	71	66.6
Southwest Plain.																																	
Amoret	Maximum	84	87	88	89	91	91	87	90	92	91	95	96	85	90	87	95	97	103	101	89	85	88	92	95	95	95	96	98	99	96	98	92.4
	Minimum	52	52	54	53	54	63	70	62	59	66	70	75	63	55	68	68	72	73	70	68	55	54	53	60	55	56	58	56	60	63	65	61.4
Appleton City	Maximum	84	86	90	89	90	88	85	90	..	90	102	102	91	96	..	..	..	..	..	88	81	87	90	94	93	93	95	97	98	96	96	[f]91.6
	Minimum	54	57	60	57	63	68	78	68	63	65	70	78	64	71	72	..	..	..	..	59	69	57	61	66	63	64	63	62	66	66	70	[d]65.0
Clinton	Maximum	85	85	92	93	93	95	89	93	98	91	97	100	92	93	89	95	96	105	104	92	87	89	93	97	98	97	97	100	100	98	98	94.5
	Minimum	55	70	80	80	60	70	69	65	64	70	70	77	65	60	65	70	70	74	74	69	58	58	60	65	62	63	63	63	65	68	70	66.8
Harrisonville §§	Maximum	83	84	90	88	89	86	88	89	91	88	92	92	86	90	86	91	94	104	99	78	81	86	87	91	93	91	92	95	97	94	94	90.0
	Minimum	52	56	60	59	60	64	67	63	63	65	68	70	64	59	63	66	62	68	73	67	57	58	60	63	65	64	65	65	66	66	66	63.4
Lamar §§	Maximum	83	88	89	91	90	90	89	90	96	88	96	99	84	94	87	98	97	100	100	90	88	92	94	96	96	96	98	100	100	96	98	93.3
	Minimum	52	54	57	55	61	63	67	67	65	70	68	70	66	61	63	65	73	74	73	73	59	58	58	65	60	60	56	57	63	64	68	63.4
Lamonte	Maximum	83	90	90	94	94	95	91	93	99	95	98	94	88	94	89	96	96	107	99	81	85	90	92	97	97	97	99	102	102	99	98	94.3
	Minimum	51	55	55	56	58	66	69	62	63	65	69	71	64	72	61	68	67	73	74	63	55	58	59	66	57	61	62	64	64	68	65	63.3
Marshall	Maximum	83	88	92	95	97	95	90	90	98	96	95	93	88	89	90	93	95	104	99	90	85	88	93	94	94	94	94	96	99	95	94	93.1
	Minimum	52	54	56	56	58	62	67	60	60	65	69	69	64	59	59	65	65	71	71	75	56	55	65	65	64	63	66	63	62	65	66	62.8
Nevada	Maximum	83	86	88	88	88	91	90	88	94	85	96	100	83	85	92	95	96	99	99	89	82	87	91	88	92	92	95	96	97	95	94	91.1
	Minimum	51	52	56	54	56	58	72	65	63	71	69	70	65	60	65	72	75	75	75	72	57	59	60	62	58	58	59	67	68	69	70	61.0
Warrensburg	Maximum	81	85	88	90	91	90	88	90	94	91	94	92	85	88	88	93	95	93	99	83	81	87	91	95	94	94	95	99	99	94	95	91.4
	Minimum	54	68	60	60	63	70	70	64	61	69	71	75	..	61	65	70	68	75	76	69	59	61	64	68	65	64	67	68	70	71	67	[a]66.5
Warsaw	Maximum	85	86	91	93	94	94	99	91	97	89	98	102	88	90	86	92	98	105	103	82	84	88	92	95	96	95	98	100	100	97	98	93.7
	Minimum	51	53	54	54	56	62	70	65	60	67	69	78	69	60	60	69	70	75	72	70	56	57	55	66	56	58	56	58	59	63	62	62.3
Northwest Plateau.																																	
Chillicothe §§	Maximum	81	86	88	88	91	78	82	89	92	92	87	83	83	86	87	89	87	97	92	81	80	86	84	90	91	89	89	92	95	88	91	87.5
	Minimum	54	52	53	56	57	66	68	59	61	65	68	67	64	57	60	63	64	65	68	67	52	55	61	57	58	62	65	63	64	65	62	61.2
Grant City	Maximum	84	86	88	88	91	91	79	88	91	90	81	80	84	85	86	86	85	95	92	81	88	85	85	90	92	92	88	85	93	96	90	87.6
	Minimum	60	55	58	56	60	66	66	60	64	77	61	69	60	57	65	60	65	69	72	65	58	53	62	77	79	58	58	74	68	66	63	63.9
Kansas City	Maximum	81	83	86	87	89	80	82	85	91	87	83	84	85	89	89	91	95	103	96	81	78	87	88	91	89	89	92	94	95	87	87	88.2
	Minimum	59	63	65	64	68	72	69	67	68	70	70	70	68	65	69	71	68	79	69	68	59	63	66	68	69	68	72	70	75	73	68	68.2
Kidder §§	Maximum	83	88	89	88	91	73	80	89	93	89	86	81	85	89	87	90	90	102	90	81	81	85	87	90	95	90	91	95	96	92	92	88.3
	Minimum	53	55	57	57	60	65	66	59	61	64	67	66	63	57	61	63	63	63	71	66	51	53	57	59	60	62	65	65	63	64	61	61.2
Lexington §§	Maximum	82	87	88	89	89	84	85	88	94	91	91	89	86	90	87	90	92	103	99	87	81	85	87	90	91	92	91	94	96	89	91	89.6
	Minimum	56	57	56	56	58	67	69	62	63	68	70	71	62	61	63	69	67	74	76	69	56	58	58	63	58	62	67	66	63	66	64	63.7
Maryville	Maximum	83	86	87	86	90	76	80	82	89	87	81	79	84	85	85	86	86	96	85	81	77	82	84	88	91	88	88	89	91	85	86	85.3
	Minimum	54	56	60	60	63	66	66	60	65	62	66	65	60	57	67	68	64	68	69	66	53	58	62	61	62	65	65	67	68	67	63	63.0
Oregon	Maximum	78	82	84	85	87	75	80	84	86	85	82	78	80	84	82	84	85	92	87	80	77	80	82	86	87	86	87	90	86	85	84	83.5
	Minimum	55	66	59	60	62	61	67	62	65	65	68	67	62	60	66	61	64	70	72	65	63	58	64	61	65	65	65	69	68	67	64	64.1
St. Joseph	Maximum	80	85	87	87	88	75	80	86	89	88	88	77	81	89	88	90	92	100	87	81	79	85	88	91	91	89	91	94	96	87	90	87.1
	Minimum	58	58	61	60	63	68	68	62	66	69	70	68	66	60	70	66	67	75	68	65	56	61	65	64	67	66	67	68	71	71	65	65.5
Trenton	Maximum	76	82	82	84	86	80	76	86	88	88	84	78	82	81	82	83	81	93	86	78	76	79	81	84	85	86	85	86	87	86	86	83.1
	Minimum	56	58	59	61	63	65	68	60	63	66	64	65	67	64	62	65	66	71	75	67	54	56	61	65	64	62	67	67	68	65	64	63.8

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 9-22-25 -860.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.
GEORGE REEDER, Meteorologist.

VOL. XXIX. COLUMBIA, MO., SEPTEMBER, 1925. No. 9.

GENERAL SUMMARY.

September, 1925, in Missouri, was the warmest September of record, though, to be sure, it was only three-tenths of a degree warmer than the same month in 1897. That one, however, is the only September since 1888 that closely compares with the current month in warmth. The first ten days of this month constitute one of the outstanding hot periods, regardless of months. Afternoon temperatures soared around the 100° value almost daily and generally, and there was no break in the heat until the the rains along about the 10th or 11th. This September had another unusual feature, and that was, while hot it also was wet, rather a rare combination. This can be explained, however, by showing that most of the excess in temperature occurred early in month and most of the rainfall the latter half of the month.

Dry weather with hot winds caused some suffering to crops, especially in southern sections where summer drought had been locally serious. But when the rains did set in they were frequent, generous to copious, with some unusually excessive downpours. Failing wells and dried up streams were fully replenished and the soil was soaked. The usual seasonal farm work was suspended.

TEMPERATURE.

The monthly mean temperature for the State, 69 stations reporting, was 74.6, or 5.6° above the normal for 36 years. It was the warmest September of record, and more than 10 degrees warmer than the same month in 1924, though that month was an unusually cold September. The hottest weather of this summer occurred during the first ten days of the current month. Afternoon maxima ranged around and above the 100° value almost daily. About seven stations along the northern border had extremes of a degree or two below 100°, but the average for State was 5 days, about 3 or 4 north of the Missouri River and 7 to 10 south. The maximum for the State was 110°, at Jackson. This is about the record, 109° being the highest previously.

PRECIPITATION.

The average precipitation for the State, based upon the records of 102 stations, was 6.46 inches. The departure from the 56 years' average was plus 2.73 inches, and the largest excess since 1921. There was no rain the first week and the first general rain did not occur until the 10th to the 14th, and the most frequent and heavy rains followed from this period on. Excess moisture fell at all stations, save at six or eight in the northeastern plain and two or three in the southern sections. Some large amounts fell on the 11th, 3.80 inches at Kirksville, 4.50 inches at New Madrid, 4.30 inches at Downing, and 4.44 inches at St. Joseph. The second date of heavy falls was the 21st, when 4.10 inches fell at Bolivar, 3.52 inches at Houston, 8.92 inches at Lockwood, 5.29 inches at Seymour, 4.00 inches at Clinton, 4.28 inches at Warsaw, and 4.32 inches at Nevada.

WIND.

The prevailing winds were from the southwest. The total wind movement, based upon the records of 8 stations equipped with anemometers, was 5,437 miles, or an hourly velocity of 7.6 miles. This is about normal. There were a few local high winds on the 8th, 10th, 11th, and 30th.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well placed stations equipped with sunshine recorders reporting, was 234. This is about 58 per cent of the possible and about 10 per cent less than normal. The same month in 1924, had 8 per cent more sunshine than the present month.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---12th, 14th, 15th, and 16th.

Hail.---Severe, near Steffenville, Lewis County, on the 7th. Light, without damage, at Koshkonong, Oregon County, on the 9th.

Halos, solar.---5th, 7th, 8th, 18th, and 24th.

Halos, lunar.---24th, and 30th.

Thunderstorms.---6th, 7th, 8th, 9th, 10th, 11th, 20th, 25th, 26th, and 30th.

SPECIAL STORM NOTES.

A severe hailstorm occurred near and south of Steffenville, Lewis County, Mo., on the 7th. The path was about two miles wide and ten miles long, and in a general direction from west to a little north of east. The stones were as large as "good size marbles". Chickens were killed, and other damage was done. Some corn was badly torn up, but the garden truck suffered most. Estimated loss about 15,000.

A windstorm, described as "a miniature twister" struck Mexico, Mo., at 3 p. m. of the 8th. The general trend of the storm was from southwest toward northeast; less than five miles long and about one-fourth mile wide. No great damage resulted. A small shed and garage on the A. P. Green Fire and Brick Plant were destroyed, two men being injured. Telegraph wires of the C. & A. Railway were broken, halting traffic for a time. The Wabash station was struck by lightning. Small sheds were flattened out and porches torn down. The estimated damage was put at $10,000.

A thunderstorm squall at Gorin, Scotland County, damaged outbuildings, sheds, and the like; stripped fruit trees, and tangled up corn. Loss about $3,000 to buildings, $1,000 to crops. At Downing, twenty miles northwest, the same storm, but earlier in the day, was felt but without damage, except a valuable cow owned by John Leeds, was killed by lightning; value about $80. This was afternoon and night of 10th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.95	84	71	218	58	4,535	6.3	33	sw.	10
Hannibal	29.96	84	..	...	..	5,277	7.3	31	w.	10
Kansas City	29.94	78	63	235	63	6,749	9.4	33	w	6
St. Joseph	29.92	83	68	213	57	4,784	6.6	30	nw.	8
St. Louis	29.96	76	61	188	50	7,585	10.5	40	n.	30
Springfield	29 98	80	63	236	63	5,898	8.2	32	w.	10
Cairo, Ill	29.97	83	68	...	..	4,316	6.0	33	w.	9
Keokuk, Iowa	29.96	82	67	211	57	4,370	6.1	44	w.	10

COMPARATIVE DATA FOR SEPTEMBER.

NOV 16 [illegible]

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	65.2	−3.7	97	28	1.11	−2.56	......	0	4	....	....	....
1889	64.7	−4.2	94	31	4.66	+0.99	......	0	11	....	....	....
1890	63.7	−5.2	98	34	3.98	+0.31	......	0	9	....	....	....
1891	70.6	+1.7	104	30	0.63	−3.04	......	0	6	....	....	....
1892	67.8	−1.1	97	32	2.39	−1.26	3.00	0	4	19	6	5
1893	69.9	+1.0	107	26	3.92	+0.25	5.20	0	6	17	7	6
1894	68.5	−0.4	101	34	4.93	+1.26	3.07	0	5	13	11	6
1895	71.8	+2.9	104	25	2.45	−1.22	6.21	0	4	19	8	3
1896	65.0	−3.9	101	28	4.17	+0.50	4.40	0	10	11	10	9
1897	74.3	+5.4	105	27	0.74	−2.93	2.13	0	2	23	5	2
1898	70.9	+2.0	103	30	6.74	+3.07	6.10	0	9	15	9	6
1899	67.4	−1.5	108	16	2.04	−1.63	3.01	0	4	20	6	4
1900	71.1	+2.2	100	29	4.81	+1.14	3.79	0	10	13	10	7
1901	68.9	0.0	103	27	2.31	−1.36	2.80	0	6	18	8	4
1902	63.2	−5.7	95	30	4.78	+1.11	6.55	0	10	15	6	9
1903	66.4	−2.5	98	32	4.41	+0.74	6.77	0	8	17	6	7
1904	69.6	+0.7	96	34	3.85	+0.18	2.46	0	3	16	8	6
1905	69.6	+0.7	98	41	7.67	+4.00	7.90	0	10	15	6	9
1906	71.9	+3.0	98	36	4.15	+0.48	4.28	0	11	15	8	7
1907	68.9	0.0	101	31	1.93	−1.74	2.25	0	6	18	7	5
1908	71.6	+2.7	99	28	1.80	−1.87	2.68	0	4	18	8	4
1909	68.7	−0.2	105	28	4.62	+0.95	4.48	0	8	18	6	6
1910	69.5	+0.6	97	34	5.53	+1.91	4.63	0	10	14	6	10
1911	73.7	+4.6	105	39	7.13	+3.46	7.75	0	11	13	7	10
1912	68.6	−0.3	105	27	3.06	−0.61	3.61	0	9	17	5	8
1913	69.4	+0.5	109	27	4.63	+0.79	4.08	0	9	13	7	10
1914	69.6	+0.5	99	35	6.27	+2.52	9.22	0	9	15	8	7
1915	70.6	+1.5	98	34	5.25	+1.51	5.91	0	7	16	7	7
1916	67.8	−1.5	101	27	2.94	+0.86	2.80	0	6	19	7	4
1917	67.9	−1.2	101	33	2.78	−1.09	4.13	0	5	19	6	5
1918	62.3	−6.7	96	29	4.73	+0.77	6.61	0	7	17	6	7
1919	71.4	+2.7	104	38	3.29	−0 54	4.93	0	5	20	6	4
1920	70.0	+1.4	100	31	4.81	+0.92	4.10	0	9	17	7	6
1921	73.4	+4.7	104	34	7.03	+3.15	5.45	0	13	13	9	8
1922	71.7	+2.6	107	34	3.31	−0.57	5.36	0	5	21	5	4
1923	68.7	−0.3	98	33	4.59	+0.86	5.26	0	11	12	9	9
1924	64.0	−5.0	96	29	3.77	+0.04	3.72	0	8	14	8	8
1925	74.6	+5.6	110	45	6.46	+2.73	8.92	0	10	14	6	10

Climatological Data for September, 1925.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	74.4	+ 7.7	103	4	54	21†	33	2.48	−1.91	1.18	0	9	16	0	14	ne.	O. K. Benecke
Clifton Hill	Randolph	731	26	73.4	+ 4.5	103	6	47	24†	38	3.61	−1.25	1.50	0	10	13	5	12	......	Dr. A. J. Bradsher
Columbia	Boone	748	35	73.8	+ 5.6	101	6	51	24	31	4.88	+2.03	1.56	0	11	13	6	11	sw.	U. S. Weather Bureau
Downing	Schuyler	878	4	72.0	......	102	3	47	21	33	10.15	+5.44	4.30	0	13	12	6	12	s.	E. E. St. Clair
Fayette	Howard	661	45	73.1[b]	+ 4.8	102	4	48	24	39	2.74	−2.09	0.75	0	6	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	37	73.8	+ 4.9	102	5†	49	21	35	4.12	−0.27	1.53	0	8	19	5	6	......	Chamber of Commerce
Gorin	Scotland	700	38	....	......	..	..	..	..	..	7.57	+3.28	2.62	0	11	10	4	16	sw.	J. W. Pulliam
Hannibal	Marion	534	33	74.2	+ 6.5	100	4	50	24	34	6.18	+2.62	3.03	0	13	13	6	11	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	37	74.8	+ 5.7	106	6	52	24	38	4.24	+0.96	2.10	0	8	15	8	7	s.	Miss Emma Swift
Kirksville	Adair	969	36	71.6	+ 5.6	100	5	48	21	33	8.94	+4.63	3.80	0	12	12	5	13	sw.	Prof. J. S. Stokes
Louisiana	Pike	469	31	74.8	+ 6.9	104	6	50	24	43	3.86	−0.09	2.00	0	9	22	2	6	w.	J. T. Farrell
Macon	Macon	875	26	72.4	+ 4.1	102	4†	50	21†	36	4.73	+0.52	1.30	0	11	13	6	11	sw.	W. C. Brown
Mexico	Audrain	800	36	74.4	+ 5.8	105	6	50	24	41	2.82	−1.86	1.25	0	10	19	1	10	sw.	Mrs. Abbie Snoddy
St. Catharine	Linn	800	14	72.6	+ 4.8	100	6	49	24	29	5.74	+1.64	1.87	0	14	11	12	7	s.	L. D. Baker
St. Charles	St. Charles	456	37	76.2	+ 8.3	105	6	52	24	33	2.51	−0.77	0.65	0	6	11	3	16	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	77.2	+ 6.7	103	5	57	24	25	4.59	+1.68	1.87	0	10	14	4	12	sw.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	76.6	+ 6.4	102	5	55	24	25	5.15	+0.51	1.42	0	10	13	6	11	w.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	..	..	..	4.04	+0.06	1.45	0	13	..	..	..	.....	J. C. Jewett
Steffenville	Lewis	650	27	74.6[a]	+ 5.5	107	4	50	20†	39	4.99	+0.80	1.50	0	11	13[a]	8[a]	8[a]	n.	Frank Hall
Unionville	Putnam	1,062	32	71.7	+ 4.5	102	4†	45	21	37	9.05	+4.44	2.25	0	13	12	9	9	nw.	Geo. W. Davis
Warrenton	Warren	816	43	76.0	+ 7.2	103	5	52	24	32	2.39	−1.65	0.80	0	8	17	4	9	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	72.8	+ 5.3	100	4	52	21	28	6.99	+3.02	2.15	0	10	7	8	15	ne.	U. S. Weather Bureau
Section means and	extremes	.....	..	74 0	+ 5.8	107	4	45	21	43	5.08	+0.99	4.30	0	10	14	5	11	sw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	29	84.2	+10.8	108	6	65	21	36	4.78	+1.68	1.55	0	10	16	4	10	sw.	L. W. Dillman
Doniphan	Ripley	344	21	76.8	+ 6.0	104	7	59	24	40	6 99	+3.35	2.70	0	13	14	6	10	sw.	W.W. Martin
Jackson	Cape Girardeau	428	34	76.0	+ 6.1	110	6	57	14†	44	7.16	+3 61	1.26	0	13	3	10	17	s.	John G. Putz
Marble Hill	Bollinger	470	30	76.2	+ 5.8	108	5	57	14†	42	7.15	+3.52	1.12	0	11	9	12	9	w.	R.A. DeWitt
Parma	New Madrid	281	4	....	......	..	..	..	..	..	14.29	......	4.50	0	13	..	..	..	......	O. O. Stires
Patton (near)	Bollinger	500	16	....	......	..	..	..	..	..	6.03	+2 82	1.29	0	9	..	..	..	......	George F. Ellis.
Poplar Bluff††	Butler	339	21	74.9	+ 3.6	108	7	57	23	44	9.27	+5.69	1.77	0	11	15	4	11	s.	J. H. Wolpers
Vanduser	Scott	304	24	....	......	..	..	..	..	..	8.67	+5.81	2.00	0	8	..	..	..	......	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	50	78.4	+ 6.9	104	5	60	23	30	6.21	+3.74	2.57	0	13	8	11	11	s.	U. S. Weather Bureau
Section means and	extremes	....	..	77.8	+ 6.5	110	6	57	14†	44	7.84	+3.78	4.50	0	11	11	8	11	s.	
Ozark Plateau.																				
Arcadia	Iron	926	44	73.0	+ 5.4	102	6	54	28	39	7.34	+3.70	1.57	0	9	20	0	10	se.	Arcadia College
Birchtree	Shannon	1,000	30	76.5	+ 7.0	104	6†	56	13†	37	8.03	+4.44	2.50	0	8	18	4	8	e.	V. H. Kirkendall
Bolivar††	Polk	1,071	31	76.6	+ 7.0	104	4†	55	24†	36	9.13	+5.03	4.10	0	9	16	4	10	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	104	6	..	..	..	4.36	+0.74	1,50	0	9	22	1	7	w.	H. E. Dean
Eldon	Miller	934	29	80.2[1]	+10.9	106	7	..	..	..	7.04	+3.24	....	..	..	..	..	..	sw.	E. H. Shepherd
Farmington	St. Francois	918	14	76.0	+ 6.7	107	6	56	14	39	7.52	+4.30	1.74	0	12	14	7	9	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	74.0	+ 4.5	101	5†	50	21	34	6.46	+2.20	3.21	0	8	16	5	9	sw	A. C. Leach
Goodland	Iron	1,000	31	74.0	+ 6.7	105	6	53	28	45	5.85	+2.12	1.85	0	10	13	7	10	s.	F. M Adams
Greenville	Wayne	381	3	74.7	......	106	6	55	14	47	8.00	......	2.14	0	12	16	3	11	w.	Wm. P. Owens
Hailey	Barry	1,350	0	....	......	..	..	..	..	..	4.43	......	1.20	0	9	16	5	9	w.	A. W. Madison
Hollister	Taney	735	38	76.2	+ 4.6	106	4†	52	15	46	8.60	+4.89	2.00	0	9	16	4	10	sw.	Mrs. W. P. Chapman
Houston	Texas	1,280	30	77.3	+ 8.7	104	10†	53	28	44	8.94	+4.83	3.52	0	11	17	6	7	sw.	Hugh Stone
Koshkonong	Oregon	958	24	78.2	+ 7 3	104	4	58	13	32	10.28	+6.79	5.30	0	9	16	6	8	ne.	R. M. Hitt
Lebanon	Laclede	1,265	37	74.8	+ 5.3	103	4†	54	25†	39	7.70	+3.61	2.25	0	12	17	2	11	sw.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	74.0	+ 2.7	100	6	55	14†	31	14.55	* * *	8.92	0	10	18	4	8	sw.	C. S. Crow
Mountain Grove	Wright	1,463	24	74.8	+ 6.4	103	6	54	25	38	12.38	+8.34	3.05	0	11	11	8	11	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	74.7	+ 4 4	99	4†	48	13	39	4.18	−0.04	1.05	0	9	16	10	4	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	75.6	+ 7.6	102	4†	54	25	34	7.45	+3.61	1.95	0	10	16	5	9	w.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	76.4[d]	+ 7.6	101	6†	51	14	35	5 59	+6.47	1.98	0	8	13[f]	7[f]	4[f]	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,612	19	73.4	+ 4.8	99	6	53	25†	40	10.53	+5.95	5.29	0	10	16	7	7	s.	Ira H. Hailey
Springfield	Greene	1,350	37	74.6	+ 5.7	98	7	55	25	28	7.75	+3.99	4.46	0	12	18	4	8	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	75.5	+ 6.3	107	6	48	13	47	7.91	+4.20	8.92	0	10	16	5	9	sw.	
Southwest Plain.																				
Amoret	Bates	831	18	73.4	+ 4.7	105	6	49	24	40	8.52	+4.62	2.00	0	9	17	4	9	s.	Andrew Rood
Appleton City	St. Clair	853	31	75.3	+ 5.0	103	6	52	24	32	5.50	+1.83	1.75	0	10	10	12	8	sw.	W. G. Bigelow
Clinton	Henry	765	32	75.8[b]	+ 5.6	105	6	50	16	38	8.53	+4.71	4.00	0	11	11[b]	8[b]	9[b]	sw.	A. E. Derwent, M. D
Harrisonville	Cass	904	48	73.6	+ 5.3	104	3	49	24	34	4.44	+0.08	1.74	0	8	8	0	22	e.	John H. Patterson
Lamar	Barton	980	38	75.0	+ 4.4	104	4†	54	13	39	9.14	+4.90	4.90	0	9	16	3	11	sw.	Jesse A. Mann
Lamonte	Pettis	867	24	76.3	+ 6.2	108	4	49	24	41	4.25	−0.25	1.15	0	10	17	7	6	se.	J. E. Wheeler
Marshall	Saline	779	36	75.6[a]	+ 7.3	105	6†	52	29	39	3.17	−1.71	0.99	0	10	15	9	6	ne.	Dr. W. H. Black
Nevada	Vernon	862	32	75.4	+ 6.3	102	7	54	12†	32	8.51	+4.35	4.32	0	7	18	4	8	s.	George A. Kaupp
Warrensburg	Johnson	878	38	75.7	+ 5.6	103	6	51	24	30	4.02	+0.43	0.94	0	11	14	7	9	sw.	L. B. Johnston
Warsaw	Benton	687	25	76.1	+ 6.1	104	4†	52	24	40	8.15	+3.83	4.28	0	7	14	5	11	w.	Everett Martin
Section means and	extremes	.....	..	75.2	+ 5.6	108	4	49	24	41	6.42	+2.28	4.90	0	9	14	6	10	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	35	71.8	+ 2.2	102	4†	50	21†	35	5.30	+0.24	2.80	0	7	17	5	8	......	F. G. Ashbaugh
Bethany	Harrison	916	33	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	Owen Ross
Chillicothe	Livingston	779	16	71.3	+ 1.7	100	3†	49	21†	34	7.59	+1.85	2.22	0	11	14	5	11	sw.	Wm. J. Olenhouse
Conception	Nodaway	980	36	72.2	+ 5.0	102	5	47	21	29	4.93	+1.08	2.02	0	10	7	13	10	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	72.8[a]	......	100	5	46	24	35	4.84	+1.56	1.81	0	12	18	2	10	s.	Fred L. Stiff
Grant City	Worth	1,134	21	71.8	+ 4.8	98	4†	46	21	33	7.77	+3.78	3.10	0	7	14	10	6	s.	B. F. Locke
Kansas City	Jackson	963	36	74.5	+ 5.6	100	5	50	23	27	5.50	+1.74	2.81	0	14	11	7	12	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	71.7	+ 4.0	103	3	48	21†	37	8.91	+4.67	2.05	0	11	13	5	12	sw.	Linn Terry
Lexington	Lafayette	688	40	74.2	+ 5.7	103	3	51	24	40	4.22	+0.22	1.60	0	9	14	9	7	s.	Edwin G Loomis
Liberty	Clay	859	35	74.0[a]	+ 4.6	103	3†	49	24	35	4 84	+0.40	2.63	0	9	13[a]	4[a]	12[a]	......	W. F. Aull
Maryville	Nodaway	1,169	35	71.0	+ 5.6	97	3†	46	21	30	5.80	+1.59	2.30	0	12	15	1	14	s.	J. R. Brink
Oregon	Holt	1,018	69	70.4	+ 3.4	97	4†	48	22†	27	5.56	+1.82	3 00	0	8	11	6	13	se.	Tom Curry
St. Joseph	Buchanan	967	17	73.4	+ 4.9	100	5	50	21	27	8.51	+3.84	4.50	0	13	12	8	10	sw.	U. S. Weather Bureau
Tarkio	Atchison	916	22	70.6	+ 4.0	98	3†	46	21	31	5.00	+1 50	1.20	0	9	13	2	15	sw.	Albert Volker
Trenton	Grundy	822	29	71.4[b]	+ 4.0	95	5	50	21	28	8.31	+4.05	1.60	0	11	15	5	10	s.	W. H. Estes
Section means and	extremes	.....	..	72.2	+ 4.3	103	3†	46	21†	40	6.22	+2.02	4.50	0	10	13	6	11	s.	
State means and	extremes	.....	..	74.6	+ 5.6	110	6	45	21	47	6.46	+2.73	8.92	0	10	14	6	10	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b], represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5. * * * +10.55

Daily Precipitation for September, 1925.

Stations.	Drainage-basins.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Northeast Plain.																																	
Boonville‖	Missouri	....	....	....	....	....	....	....	....	....	....	.80	....	....	....	.05	....	....	....	....	....	....	.65	.15	....	....	.70	.05	....	....	....	....	2.40
Brunswick‖	Grand	....	....	....	....	....	....	....	....	....	.08	1.18	.15	.06	....	.05	....	....	....	....	.06	....	.35	.10	....	....	.45	....	....	....	....	....	2.48
Clifton Hill	Chariton	....	....	....	....	....	....	....	....	T.	.40	.87	.05	.05	.01	....	....	....	....	....	....	.10	.11	....	....	.37	.15	....	....	....	1.50	....	3.61
Columbia***	Missouri	....	....	....	....	T.	....	....	....	.13	.72	.74	T.	.01	.09	....	....	....	....	....	T.	.14	.74	.01	....	1.12	47	....	....	....	.71	....	4.88
Downing	Mississippi	....	....	....	....	....	....	....	.15	....	.41	4.30	.26	.02	.04	....	....	....	.10	....	1.46	....	.55	....	....	.03	.95	.16	....	....	1.72	....	10.15
Fayette‖‖	Missouri	....	....	....	....	....	.01	....	....	.02	.75	....	....	T.	T.	....	....	....	....	....	....	T.	.59	....	....	.65	....	....	....	....	.72	....	2.74
Fulton‖	do	....	....	....	....	....	....	....	....	....	.11	....	....	.03	.24	....	....	....	....	....	....	1.03	18	....	....	1.53	.31	....	....	....	.69	....	4.12
Gorin	Mississippi	....	....	....	....	....	....	....	.38	....	.75	2.62	.19	....	.03	.01	....	....	....	....	1.15	....	.26	....	....	....	.76	.07	....	....	1.35	....	7.57
Hannibal***	do	....	....	....	....	....	....	.01	.01	.07	.62	.26	.10	.25	.19	....	....	....	....	....	.98	T.	.02	....	....	1.08	1.97	....	....	....	.62	....	6.18
Hermann‖	Missouri	....	....	....	....	....	.01	T.	....	T	.03	....	....	....	T.	.12	....	....	....	....	....	T	.37	.30	....	T.	.74	.92	....	....	....	....	2.49
Jefferson City‖	do	....	....	....	....	....	....	....	.05	....	....	.12	....	....	....	.32	....	....	....	....	....	....	1.25	.12	.03	....	2.10	.25	....	....	....	....	4.24
Kirksville	Mississippi	....	....	....	....	....	....	....	.03	....	1.28	3.80	.21	.05	.04	....	....	....	....	....	1.76	....	.10	....	....	.14	.82	.15	....	....	.56	....	8.94
Louisiana	do	....	....	....	....	....	....	T.	T.	....	.03	.02	....	.02	.18	.04	....	....	....	....	.18	....	.14	....	....	....	1.25	....	....	....	2.00	....	3.86
Macon ‖	Chariton	....	....	....	....	....	....	.65	....	.03	.14	1.30	....	.10	T.	....	....	....	....	....	.37	.38	.12	.11	....	....	1.20	.33	....	....	....	....	4.73
Mexico ‖	Mississippi	....	....	....	....	....	....	....	....	.04	.10	.43	....	....	.04	.23	....	....	....	....	....	.06	.08	.27	....	....	1.25	.32	....	....	....	....	2.82
Milan‖	Grand	....	....	....	....	....	....	....	T.	.10	.75	1.10	1.65	.20	....	....	....	....	....	....	2.10	.30	.08	.35	....	....	.42	....	....	....	....	....	7.05
Pacific‖	Meramec	....	....	....	....	....	....	....	....	....	.67	....	....	....	T.	.54	T.	....	....	....	....	.62	.68	.32	....	.06	.82	.25	....	....	....	....	3.96
St. Catharine	Grand	....	....	....	....	....	....	.18	.03	....	1.87	1.64	.12	.23	.04	T.	....	....	....	....	.48	.02	.24	.02	....	.03	.30	T.	....	....	.54	....	5.74
St. Charles	Missouri	....	....	....	....	....	....	....	....	....	.14	....	....	....	.27	....	....	....	....	....	.50	.38	....	....	....	T.	.65	....	....	....	.57	....	2.51
St Louis (1)***	Mississippi	....	....	....	....	....	....	....	....	....	.28	.08	.35	T.	.58	T.	....	....	....	....	.02	.09	.42	....	....	.45	1.49	....	....	....	.83	....	4.59
St. Louis (2)	do	....	....	....	....	....	....	T.	....	....	.35	.08	1.02	T.	.61	....	....	....	....	....	.03	.13	.52	....	....	.18	1.42	....	....	....	.81	....	5.15
Shelbina ‖‖	do	....	....	....	....	....	....	....	.25	.05	.11	1.45	.16	.03	.01	....	....	....	....	....	.34	.37	.02	.12	....	....	.98	.15	....	....	....	....	4.04
Steffenville	do	....	....	....	....	....	....	.25	....	.20	.42	.05	....	.12	.10	....	....	....	....	.70	....	.70	....	....	.28	.67	....	....	....	1.50	....	....	4.99
Union‖	Meramec	....	....	....	....	....	....	....	.08	....	.08	....	....	....	....	.45	....	....	....	....	....	.37	.85	.35	....	.04	.63	.67	....	....	....	....	3.52
Unionville	Chariton	....	....	....	....	....	....	....	.10	.15	.80	2.25	.30	.20	.10	....	....	....	.20	....	2.00	....	.90	....	....	T.	.80	.25	....	....	1.00	....	9.05
Valley Park‖‖	Meramec	....	....	....	....	....	....	....	....	....	.30	....	....	....	....	.50	....	....	....	....	....	....	.49	.37	....	T.	.59	.34	....	....	....	....	2.59
Warrenton	Mississippi	....	....	....	....	....	T.	....	.25	....	T.	....	T.	....	.17	.06	....	....	....	....	T.	.15	.43	T.	....	.17	.80	....	....	....	.36	....	2.39
Keokuk, Ia.***	do	....	....	....	....	....	....	T.	.18	.37	.90	.59	T.	1.02	T.	T.	....	....	T.	....	.56	T.	.02	....	....	.31	.89	T.	....	....	2.15	....	6.99
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi	....	....	....	....	....	....	....	....	....	T.	....	1.61	.59	....	1.10	.27	....	....	....	....	2.40	.40	.16	....	.11	.12	1.98	.02	....	....	....	8.76
Caruthersville	do	....	....	....	....	....	....	....	....	.63	.65	.45	....	....	1.55	.30	....	....	....	....	....	T.	....	.30	.40	.10	.20	.20	....	....	....	....	4.78
Doniphan	Black	....	....	....	....	....	....	....	T	.16	....	.50	.22	.03	1.20	.12	....	....	....	....	....	1.08	.20	.02	.41	.30	2.70	.05	....	....	....	....	6.99
Jackson	Mississippi	....	....	....	....	....	....	....	....	....	.31	.78	.85	.03	.91	.30	....	....	....	....	.18	.84	1.26	....	.02	.16	.72	.80	....	....	....	....	7.16
Marble Hill	Mississippi	....	....	....	....	....	....	....	....	....	.20	.22	.30	1.10	.35	....	....	....	....	....	.97	.80	.85	....	....	.21	1.03	1.12	....	....	....	....	7.15
New Madrid‖	do	....	....	....	....	....	....	....	....	.04	.55	....	1.95	1.35	....	2.35	.30	....	....	....	....	.70	.10	.03	.01	.50	.05	2.35	....	....	....	....	10.28
Parma	St. Francis	....	....	....	....	....	....	....	.06	....	....	4.50	.34	.35	2.23	.62	....	....	....	....	.75	.12	.25	.08	....	1.11	1.75	2.13	....	....	....	....	14.29
Patton (near)	Mississippi	....	....	....	....	....	....	....	....	....	.43	.47	.04	....	1.29	....	....	....	....	....	.39	1.10	....	....	....	.32	.82	1.17	....	....	....	....	6.03
Poplar Bluff	Black	....	....	....	....	....	....	....	....	.18	....	.53	1.52	....	1.46	.14	....	....	....	....	.95	.30	....	....	.57	1.77	.85	....	....	....	1.00	....	9.27
Vanduser	Mississippi	....	....	....	....	....	....	....	....	.42	....	....	2 00	....	2.00	....	....	....	....	....	.13	1.37	....	....	....	.27	1.14	1.34	....	....	....	....	8.67
Cairo, Ill.***	do	T.	....	....	....	....	....	....	T.	.03	.27	1.42	1.22	.01	1.20	.30	....	....	....	....	.84	.22	.02	T.	T.	.10	.57	.01	....	....	....	....	6.21
Ozark Plateau.																																	
Annapolis‖	St. Francis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Arcadia ‖	do	.92	....	....	....	....	....	....	....	....	.10	....	T.	.58	T.	1.57	.02	....	....	....	....	1.31	.33	T.	....	T.	1.01	1.50	....	....	T.	....	7.34
Birchtree	Black	....	....	....	....	....	....	....	....	....	....	....	.21	....	2.50	.20	....	....	....	....	....	2.20	.80	....	.20	1.08	.84	....	....	....	....	....	8.03
Bolivar	Osage	....	....	....	....	....	....	....	....	....	....	2.10	....	....	.20	....	.25	....	....	....	.30	4.10	1.10	.15	....	.23	.70	....	....	....	....	....	9.13
Dean	Neosho	....	....	....	....	....	....	....	....	....	.22	.73	....	....	1.06	.04	....	....	....	....	....	.15	....	.43	.13	1.50	.10	....	....	....	....	....	4.36
De Soto‖‖	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Eldon‖‖	Missouri	....	....	....	....	....	....	.17	....	....	.62	....	.05	.03	.36	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5.81	....	7.04
Farmington	St. Francis	....	....	....	....	....	....	....	T.	.08	.40	.32	.59	....	1 24	T.	....	....	....	....	.52	1.50	.94	.02	T.	.13	1.74	.04	....	....	....	....	7.52
Fredericktown‖‖	do	....	....	....	....	....	....	....	....	....	.66	.03	....	....	T.	1.86	....	.15	....	.20	....	....	1.73	....	.21	....	....	1.79	....	.13	....	....	6.76
Galena‖‖	White	....	....	....	....	....	....	....	....	....	....	.58	....	....	1.05	....	....	....	....	....	.25	....	.45	....	1.30	2.40	....	....	....	....	....	....	6.03
Gano	Meramec	....	....	....	....	....	....	....	....	T.	.70	....	....	....	.61	....	....	....	....	....	1.01	2.20	.35	.05	....	.71	.83	....	....	....	T.	....	6.46
Goodland	Black	.25	....	....	....	....	....	....	....	....	....	36	.48	....	.80	.05	....	....	....	....	.44	1.85	.12	....	....	.70	.80	....	....	....	....	....	5.85
Greenville	St. Francis	....	....	....	....	....	....	....	....	.06	....	.20	.18	....	1.73	.17	.11	....	....	....	.39	2.14	.04	....	.08	.95	1.95	....	....	....	....	....	8.00
Hailey	White	....	....	....	....	....	....	....	....	....	.08	.81	....	....	1.20	.20	....	....	....	....	....	.75	....	.32	.20	.70	.17	....	....	....	....	....	4.43
Hollister	do	....	....	....	....	....	....	....	....	....	....	.60	....	....	1.00	....	....	....	....	....	....	1.00	.80	1.00	.70	2.00	.90	....	....	....	.60	....	8.60
Houston	Gasconade	.13	....	....	....	....	....	....	....	....	....	....	....	....	1.17	.15	.37	....	....	....	.21	3.52	....	.07	.06	1.62	1.52	....	....	.12	....	....	8.94
Jerome ‖	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Koshkonong	Black	....	....	....	....	....	....	....	....	.14	.03	....	....	....	1.90	.37	....	....	....	....	....	5.30	....	.21	.27	.90	1.16	....	....	....	....	....	10.28
Lebanon ‖	Osage	.15	....	....	....	....	....	....	....	....	....	.48	....	T.	.03	.67	....	.10	....	....	....	1.50	1.71	.04	.28	.20	2.25	.29	....	....	....	....	7.70
Lockwood	do	....	....	....	....	....	....	....	....	....	.71	.94	....	....	1.25	....	.16	....	....	....	....	8.92	1.21	.20	.19	.62	.35	....	....	....	....	....	14.55
Mountain Grove‖	White	.03	....	....	....	....	....	....	....	T.	....	T.	....	....	1.53	....	.43	.07	....	....	....	3.02	2.29	.02	.05	1.44	3.05	.45	....	....	....	....	12.38
Neosho	Neosho	....	....	....	....	....	....	....	.05	....	.28	.66	....	....	1.05	....	....	....	....	....	....	.28	T.	.36	.12	1.05	.33	....	....	T.	....	....	4.18
Rolla	Meramec	....	....	....	....	....	....	....	T.	.13	....	....	....	....	.42	....	....	....	....	....	1.42	1.88	.05	.04	.10	1.95	.93	....	....	....	.53	....	7.45
Seligman	Neosho	....	....	....	....	....	....	....	....	....	.14	1.51	....	....	1.98	.29	....	....	....	....	....	.21	....	.42	.36	.68	....	....	....	....	....	....	5.59
Seymour (near)	White	....	....	....	....	....	....	....	T.	....	....	.14	....	....	1.05	T.	.08	....	....	....	.07	5.29	.10	.04	.20	1.74	1.82	....	....	....	....	....	10.53
Springfield***	do	....	....	....	....	....	....	....	T.	....	.12	.48	....	....	.85	T.	.01	....	....	....	1.78	2.68	.12	.08	.08	.94	.12	....	....	....	.49	....	7.75
Steelville‖	Meramec	....	....	....	....	....	....	....	....	....	15	....	....	....	....	.33	....	....	....	....	....	1.45	2.08	.11	.03	.06	.58	.60	....	....	....	....	5.39
Tuscumbia ‖	Osage	....	....	....	....	....	....	....	....	....	T.	.27	....	....	.10	.33	....	....	....	....	....	.33	2.50	.30	....	....	2.25	.22	....	....	....	....	6.30
Willow Sprgs.‖‖ (near)	White	....	.37	....	....	....	....	....	....	....	.35	....	.04	....	....	2.64	.22	....	....	....	....	2.46	58	....	.02	1.40	1.50	1.10	....	....	....	....	10.68
Southwest Plain.																																	
Amoret	Osage	....	....	....	....	....	1.01	....	....	....	.15	1.20	....	....	....	....	....	.45	....	....	....	2.00	.86	....	....	.60	.25	....	....	2.00	....	....	8.52
Appleton City	do	....	....	....	....	....	T.	.09	....	T.	.04	.85	T.	....	.02	....	.16	....	....	....	T.	1.65	1.75	T.	....	.25	.48	....	....	....	.21	....	5.50
Clinton	do	....	....	....	....	....	....	....	....	.02	....	.15	.02	....	.01	....	.15	....	....	....	....	4.00	2.25	.02	....	.60	.58	....	....	....	.73	....	8.53
Harrisonville‖	do	....	....	....	....	....	....	.58	....	....	.06	1.42	.03	....	....	.03	....	....	....	....	....	....	1.74	.03	....	....	.55	....	....	....	....	....	4.44
Joplin*	Neosho	....	....	....	....	....	....	....	....	....	.32	.63	....	....	1.48	....	....	....	....	....	.46	.38	.21	.25	.12	.24	....	....	....	....	.05	....	4.14
Lamar ‖	do*	....	....	....	....	....	....	....	....	....	....	.88	....	....	.15	.36	....	....	....	....	....	2.08	4.90	.03	.06	.27	.41	....	....	....	....	....	9 14
Lamonte	Missouri	....	....	....	....	....	.40	....	....	....	.18	.85	.02	....	....	....	....	....	....	....	....	.30	1.15	.04	....	.67	.51	....	....	....	.13	....	4.25
Marshall	do	....	....	....	....	....	.04	....	....	....	.04	.92	.04	.05	T.	T.	....	....	....	....	T.	.20	.38	....	.20	.31	....	....	....	....	.99	....	3.17
Nevada	Osage	....	....	....	....	....	....	....	....	....	1.11	....	....	....	.13	....	....	....	....	....	T.	4.32	2.11	.04	....	.59	.21	....	....	....	....	....	8.51
Osceola‖‖	do	....	....	....	....	....	....	....	....	....	....	1.14	....	....	.17	.16	.25	....	....	....	....	1.40	2.91	.23	....	.05	.75	....	....	....	....	....	7.06
Warrensburg	Missouri	....	....	....	....	....	.19	.08	....	....	.09	.86	.03	T.	T.	....	....	....	....	....	....	.46	.94	.03	....	.49	55	....	....	....	.30	....	4.02
Warsaw	Osage	....	....	....	....	....	....	....	....	....	T.	....	....	....	.19	....	.10	....	....	....	....	4.28	1.58	T.	....	.60	.26	....	....	....	1.14	....	8.15
Waverly ‖	Missouri	....	....	....	....	....	....	T.	....	T.	.10	.82	.19	.03	....	.02	....	....	....	....	....	T.	.35	.15	....	....	.73	T.	....	....	....	....	2.39
Northwest Plateau.																																	
Albany‖‖	Grand	....	....	....	....	....	....	....	....	....	.25	1.10	2 64	1.07	....	....	....	....	.20	....	1.50	.10	....	.13	.50	....	.62	.50	T.	....	.11	....	8.72
Avalon	do	....	....	....	....	....	....	....	.30	2.50	....	....	.15	....	....	....	....	....	....	....	.15	....	.65	....	....	.65	....	....	....	....	.90	....	5.30
Bethany	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Chillicothe ‖‖	do	....	....	....	....	....	....	1.48	....	.02	.60	2.22	.44	.11	....	....	....	....	....	....	.50	.04	.72	.80	....	....	.66	....	....	....	....	....	7.59
Conception	Missouri	....	....	....	....	....	.11	....	T.	T	.27	2.02	.14	.08	....	....	....	....	.08	....	1.15	T.	.44	....	....	T.	.42	....	.11	....	.11	....	4.93
Edgerton	do	....	....	....	....	....	.22	.04	....	T.	1.81	1.36	.08	.03	T.	....	....	....	....	....	....	.28	.15	.08	....	.11	.25	....	....	....	.43	....	4.84
Gallatin ‖	Grand	....	....	....	....	....	....	....	....	....	1.30	2.40	1.70	.20	....	....	....	....	....	....	1.12	....	.30	.65	....	....	.75	....	....	....	T.	....	8.42
Grant City	do	....	....	....	....	....	....	....	T.	....	T.	3.10	.80	T.	T.	....	....	....	.65	....	1.20	....	.95	....	....	T.	.65	.42	....	....	....	....	7.77
Kansas City***	Missouri	....	....	....	....	....	.54	.11	....	T.	.83	2.29	.37	T	.01	....	.10	....	....	....	.02	.23	.54	.01	....	.36	.02	....	....	....	.07	....	5.50
Kidder ‖	Grand	....	....	....	....	....	....	1.22	....	....	1.93	2.05	1.33	.14	....	....	....	....	....	....	.70	....	.52	.20	....	....	.54	.14	....	....	.14	....	8.91
Lexington ‖	Missouri	....	....	....	....	....	....	.42	....	.08	.12	1.60	.15	....	.05	....	....	....	....	....	....	....	.65	.10	....	....	1.05	....	....	....	....	....	4.22
Liberty ‖	do	....	....	....	....	....	.08	....	....	....	.15	2.63	.51	.05	....	....	....	....	....	....	....	....	.52	.05	....	.35	....	....	....	....	.50	....	4.84
Maryville	do	....	....	....	....	....	T.	....	.11	....	.10	.54	2.30	....	....	.03	....	....	.22	....	.63	....	....	.86	....	.03	.47	.35	....	.16	....	....	5.80
Oregon	do	....	....	....	....	....	....	....	T.	* *	* *	3.30	....	....	....	....	....	....	.46	....	.41	....	.75	....	....	* *	* *	.60	....	....	.04	....	5.56
St. Joseph***	do	....	....	....	....	....	....	.17	.14	.66	.27	4.44	.20	....	T.	....	....	....	....	....	1.28	.25	.21	....	....	.26	.16	.05	....	....	.42	....	8.51
Tarkio	do	....	....	....	....	....	....	.31	....	....	.34	.89	....	....	.05	....	....	....	.30	....	1.20	....	.96	....	....	....	.82	....	....	.13	....	....	5.00
Trenton	Grand	....	....	....	....	....	.06	T.	.06	.74	1.35	1.36	.47	T.	....	....	....	....	T.	....	1.60	T.	1.09	....	....	.75	.21	....	....	....	.62	....	8.31

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for September, 1925.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	97	98	93	103	102	101	98	99	101	93	80	62	70	69	81	88	97	99	95	77	63	58	67	73	65	80	85	92	90	85	..	85.4
	Minimum	65	65	69	71	69	71	72	70	70	67	66	58	58	61	58	61	65	71	72	71	54	55	54	51	55	57	60	59	60	68	..	63.4
Columbia	Maximum	92	97	98	100	100	101	95	100	99	91	82	68	71	67	76	86	94	96	94	84	64	60	62	69	60	74	82	84	86	85	..	83.9
	Minimum	66	67	71	69	71	74	71	71	72	67	66	60	60	60	58	59	71	72	70	64	56	55	54	51	57	60	60	58	61	64	..	63.8
Fayette	Maximum	97	98	100	102	101	100	97	98	99	91	80	64	68	70	80	87	96	98	95	..	..	58	65	70	65	79	85	86	85	85	..	^{b}85.7
	Minimum	64	62	65	65	66	68	69	69	69	64	65	60	59	60	55	55	57	69	68	..	..	54	52	48	49	56	57	53	55	61	..	^{b}60.5
Hannibal	Maximum	90	96	100	100	100	100	89	97	100	89	83	77	65	65	73	85	96	96	96	83	64	61	65	74	64	71	83	88	85	85	..	84.0
	Minimum	64	62	72	69	74	77	73	70	69	66	68	64	61	62	60	58	72	75	73	61	54	55	53	50	56	60	62	60	63	65	..	64.3
Jefferson City §§	Maximum	95	101	103	101	104	106	100	98	102	92	85	73	72	66	77	76	97	100	97	89	60	60	61	68	66	77	82	84	86	88	..	85.5
	Minimum	66	66	70	70	70	73	70	71	71	72	66	62	61	60	57	56	59	71	70	75	59	56	55	52	54	58	60	65	64	66	..	64.2
Kirksville	Maximum	93	94	98	99	100	97	90	93	90	84	77	63	66	65	72	84	91	92	91	87	68	59	68	73	68	74	78	86	81	76	..	81.9
	Minimum	60	65	66	70	71	74	71	67	69	63	62	55	57	59	59	56	68	72	70	61	48	51	50	50	53	54	59	58	57	62	..	61.2
Louisiana	Maximum	94	98	102	103	102	104	98	96	103	94	90	86	75	68	76	80	98	98	97	91	80	74	65	76	68	70	84	88	86	86	..	87.7
	Minimum	60	58	66	65	68	72	68	60	66	65	68	67	62	63	58	60	55	68	70	70	65	54	62	50	54	60	60	53	52	60	..	62.0
Macon§§	Maximum	95	96	99	102	102	100	93	96	95	91	78	64	66	70	73	76	96	97	95	73	67	65	62	74	65	83	84	89	88	80	..	83.8
	Minimum	61	62	67	70	69	71	68	68	69	65	64	57	57	61	59	57	60	63	68	67	50	52	52	50	54	55	59	58	57	61	..	61.0
Mexico§§	Maximum	94	98	102	104	103	105	98	102	102	94	85	72	70	68	79	90	98	99	97	81	63	58	62	73	65	72	84	90	88	88	..	86.1
	Minimum	63	66	68	73	72	74	73	69	69	65	66	63	60	61	57	56	57	71	69	73	53	53	53	50	53	58	59	55	57	64	..	62.7
St. Catharine	Maximum	91	94	98	98	98	100	90	93	92	84	72	66	70	64	74	82	90	91	91	82	68	60	66	72	68	74	79	84	83	76	..	81.7
	Minimum	64	69	69	70	73	74	71	72	70	64	65	56	59	60	61	59	71	73	71	63	55	52	52	49	56	56	60	61	63	63	..	63.4
St. Louis(1)	Maximum	91	96	99	102	103	102	96	97	101	90	88	83	72	69	74	84	94	97	96	86	70	64	69	70	65	73	82	83	84	84	..	85.5
	Minimum	72	75	78	81	78	81	79	77	79	70	72	68	63	62	62	62	72	75	76	70	61	57	58	57	57	64	63	66	67	65	..	68.9
Unionville	Maximum	97	97	101	102	102	99	94	90	88	86	68	66	68	65	74	86	95	94	93	86	70	58	70	75	68	75	84	87	85	78	..	83.4
	Minimum	55	64	70	65	70	74	67	66	67	62	60	54	55	60	56	55	68	68	70	60	45	50	50	50	52	55	60	56	57	60	..	60.0
Warrenton	Maximum	92	98	99	100	103	101	97	97	101	96	91	85	75	69	73	86	98	99	99	94	77	61	63	69	68	71	84	88	86	86	..	86.9
	Minimum	65	67	73	74	71	77	72	70	75	68	68	66	60	62	60	57	68	71	70	75	57	55	55	52	57	60	59	59	62	64	..	65.0
Southeast Lowlands.																																	
Caruthersville	Maximum	101	102	103	106	106	108	107	107	87	97	81	101	84	80	83	89	91	95	100	97	87	85	85	84	86	84	89	91	94	96	..	93.5
	Minimum	75	71	74	79	83	85	82	71	71	70	72	71	75	68	71	74	75	78	81	80	65	68	70	75	73	76	78	77	79	80	..	74.9
Doniphan	Maximum	95	97	100	102	102	103	104	102	103	98	95	78	77	78	77	86	96	95	94	94	83	78	70	69	72	76	81	85	83	86	..	88.6
	Minimum	65	66	70	64	65	65	64	66	66	65	70	69	58	60	65	65	67	68	66	68	66	63	63	59	62	65	67	65	63	63	..	64.9
Jackson	Maximum	100	101	104	107	108	110	104	105	106	91	91	76	76	71	77	78	91	93	92	91	75	65	73	69	72	75	75	84	84	84	..	87.6
	Minimum	64	62	64	65	79	66	65	66	74	78	71	67	60	57	57	57	65	67	64	71	63	60	57	60	65	64	67	60	57	58	..	64.3
Poplar Bluff	Maximum	86	102	106	106	105	105	108	103	103	97	86	75	74	71	72	79	88	88	87	85	79	70	71	68	71	72	75	80	79	79	..	85.7
	Minimum	66	65	64	65	64	61	68	62	68	70	68	58	58	65	63	66	67	65	68	70	62	62	57	60	65	67	62	62	61	65	..	64.1
Cairo, Ill.	Maximum	95	98	101	102	104	103	103	101	100	92	92	81	73	76	73	80	93	94	95	93	73	72	73	71	76	80	82	84	85	87	..	87.7
	Minimum	73	72	73	73	74	75	74	76	76	70	69	68	65	64	65	64	72	76	73	72	66	64	60	62	61	69	69	67	66	64	..	69.1
Ozark Plateau.																																	
Arcadia§§	Maximum	93	96	98	100	100	102	101	95	101	95	90	78	71	65	67	81	92	94	93	90	64	66	66	65	68	71	84	81	85	85	..	84.6
	Minimum	62	61	63	63	64	63	64	65	66	67	69	69	58	56	59	56	58	68	62	67	61	59	59	58	58	59	62	54	55	57	..	61.4
Birchtree	Maximum	95	100	102	103	103	104	103	102	104	98	92	84	77	68	69	84	94	94	94	93	88	78	69	63	66	69	83	84	83	85	..	87.7
	Minimum	66	67	66	68	68	67	69	75	70	70	75	68	56	56	62	63	69	68	67	70	64	62	60	60	58	63	62	61	64	66	..	65.3
Eldon §§	Maximum	..	99	102	104	105	104	106	104	100	103	97	86	87	88	66	76	90	97	99	..	..	..	..	..	..	..	..	..	..	..	..	^{l}95.2
	Minimum	65	70	68	68	75	70	69	70	69	67	60	59	59	58	57	60	66	66	..	..	..	..	..	..	..	..	..	..	..	..	..	^{l}65.3
Farmington	Maximum	95	102	104	106	106	107	105	102	105	98	94	81	74	69	67	85	95	98	96	95	74	68	67	66	67	72	85	86	87	88	..	88.1
	Minimum	65	63	66	69	69	72	70	69	70	69	69	69	58	56	60	62	65	68	66	73	61	58	57	58	59	64	61	57	58	58	..	64.0
Hollister	Maximum	100	101	105	106	105	106	106	105	105	100	88	84	86	78	80	84	95	94	96	98	90	86	82	85	72	81	80	82	83	90	..	91.8
	Minimum	63	60	60	62	63	63	60	70	64	64	65	53	54	60	52	60	64	63	64	64	64	60	58	58	56	60	59	60	60	55	..	60.6
Koshkonong	Maximum	95	98	101	104	103	103	102	103	103	97	89	81	79	76	77	88	92	93	93	93	86	80	75	66	67	69	78	84	85	85	..	88.2
	Minimum	79	70	72	72	76	71	72	73	75	77	73	61	58	61	65	66	71	71	71	71	67	63	62	60	59	64	60	71	65	66	..	68.1
Lebanon§§	Maximum	96	98	101	103	103	103	103	101	102	98	83	69	72	65	75	90	94	96	95	93	70	73	65	70	69	85	85	88	91	89	..	87.5
	Minimum	62	64	64	67	67	74	64	64	70	70	65	59	56	57	59	59	63	68	67	71	59	58	56	55	54	54	59	58	61	62	..	62.2
Mountain Grove§§	Maximum	94	97	100	102	102	103	102	100	102	94	90	81	73	67	69	86	93	93	91	90	72	75	65	61	71	64	82	87	83	85	..	85.8
	Minimum	65	64	70	69	69	75	64	73	72	70	65	60	55	59	61	61	63	70	68	68	67	63	58	58	54	54	59	58	58	66	..	63.9
Neosho	Maximum	95	96	97	99	99	99	99	98	98	94	80	79	80	73	81	91	92	92	91	91	97	80	68	63	64	75	84	89	88	87	..	87.3
	Minimum	62	58	59	60	65	66	58	68	68	65	63	58	48	61	63	63	69	69	67	75	67	65	57	56	60	60	55	54	60	65	..	62.1
Rolla	Maximum	93	99	101	102	102	102	101	96	101	96	89	83	70	71	71	85	95	98	98	93	84	64	63	62	63	68	82	79	85	86	..	86.1
	Minimum	66	65	70	70	74	74	74	71	74	67	67	61	58	58	58	57	72	72	75	77	60	59	57	55	54	60	60	57	62	68	..	65.1
Springfield	Maximum	92	94	96	97	97	98	98	96	96	92	78	63	70	67	76	87	90	91	90	89	73	74	62	61	65	76	81	83	82	85	..	83.3
	Minimum	71	73	72	72	74	76	70	76	75	68	63	58	58	61	60	64	71	72	71	68	62	60	56	56	55	61	59	64	67	63	..	65.9
Southwest Plain.																																	
Amoret	Maximum	98	101	102	104	104	105	98	99	99	96	78	66	75	73	78	79	92	96	93	86	68	63	61	67	64	75	81	85	87	88	..	85.4
	Minimum	65	64	71	69	66	71	69	65	67	65	64	54	56	61	64	57	58	72	68	66	54	56	53	49	57	57	55	54	58	63	..	61.6
Appleton City	Maximum	98	100	102	101	102	103	101	100	100	96	78	70	71	68	78	91	94	96	93	89	76	66	60	66	63	75	82	86	87	92	..	86.1
	Minimum	68	69	69	69	73	74	72	71	70	68	66	55	60	62	57	62	72	73	72	76	55	57	54	52	58	58	56	58	64	66	..	64.5
Clinton	Maximum	100	..	..	102	104	105	103	102	101	100	94	73	72	70	80	88	96	98	96	89	85	74	66	67	65	80	85	88	88	89	..	^{b}87.9
	Minimum	70	..	..	69	71	75	72	71	75	70	64	56	60	62	58	50	68	71	71	70	55	58	57	51	55	58	65	58	58	67	..	^{b}63.8
Harrisonville§§	Maximum	94	101	104	102	101	102	97	99	99	98	77	70	71	70	79	87	95	96	93	82	58	60	64	69	62	76	82	84	85	85	..	84.7
	Minimum	66	68	70	71	71	73	77	69	69	66	65	54	53	58	56	60	63	69	70	70	57	52	52	49	50	55	57	60	60	63	..	62.4
Lamar§§	Maximum	99	101	101	104	104	103	104	100	100	97	79	66	79	62	78	93	94	96	94	91	73	70	60	63	64	78	83	89	90	89	..	86.8
	Minimum	67	64	66	65	68	70	68	70	70	69	65	57	54	55	58	60	67	73	71	72	61	60	56	56	57	58	58	58	60	65	..	63.3
Lamonte	Maximum	101	103	105	108	107	106	100	103	103	100	84	71	71	72	93	94	101	102	99	87	71	61	63	70	61	82	88	92	93	91	..	89.4
	Minimum	62	69	69	67	71	72	72	70	72	66	66	56	59	62	54	54	72	71	72	70	55	56	53	49	57	58	59	58	61	65	..	63.2
Marshall	Maximum	97	100	102	101	104	105	105	101	101	96	91	72	67	74	83	91	98	100	98	86	72	60	73	68	..	83	87	92	90	90	..	^{a}89.3
	Minimum	62	65	65	65	67	70	70	68	69	63	66	59	59	60	54	56	68	69	68	70	54	55	47	55	..	57	58	58	52	65	..	^{a}61.9
Nevada	Maximum	96	98	100	101	101	100	102	100	100	95	78	73	76	67	77	92	94	96	95	91	66	69	62	65	62	86	82	86	87	88	..	86.2
	Minimum	67	68	71	71	75	74	70	73	74	68	65	54	56	61	57	64	73	74	73	65	56	57	54	54	55	58	60	61	65	67	..	64.7
Warrensburg	Maximum	97	98	100	102	102	103	95	99	100	96	88	75	70	72	79	89	96	98	95	87	74	61	62	68	65	75	82	88	88	85	..	86.3
	Minimum	67	73	73	73	76	74	71	72	74	68	67	55	60	62	55	62	74	73	73	73	55	56	53	51	58	57	60	61	63	65	..	65.1
Warsaw	Maximum	99	101	103	104	103	104	102	103	100	99	83	74	72	71	77	87	95	97	89	100	90	65	65	72	70	78	90	95	93	82	..	88.8
	Minimum	65	65	67	64	67	75	69	69	74	70	68	57	59	62	58	59	64	72	79	64	56	57	55	52	58	59	59	56	58	65	..	63.4
Northwest Plateau.																																	
Chillicothe §§	Maximum	93	96	100	100	100	98	92	90	91	84	74	61	69	68	79	87	95	95	93	71	62	56	70	75	66	77	84	87	87	73	..	82.4
	Minimum	59	62	67	67	67	68	69	69	65	63	63	54	54	58	58	55	63	71	69	67	49	49	51	49	51	56	59	57	57	61	..	60.2
Grant City	Maximum	90	94	97	98	98	96	98	94	92	87	94	80	74	78	76	82	85	88	92	87	65	57	70	77	70	78	81	81	85	79	..	84.2
	Minimum	62	66	65	72	71	70	69	68	66	60	60	52	59	60	58	60	60	62	69	60	46	48	47	47	58	53	55	60	52	51	..	59.5
Kansas City	Maximum	94	98	99	99	100	98	94	99	95	89	74	61	70	71	80	88	94	96	92	80	63	59	63	73	64	73	83	86	85	84	..	83.5
	Minimum	70	76	77	78	80	71	72	73	73	66	58	54	60	62	61	64	75	75	75	63	53	52	50	53	56	58	61	65	67	66	..	65.5
Kidder§§	Maximum	95	100	103	102	102	99	95	93	93	83	75	60	66	71	80	87	95	95	90	73	58	54	69	78	68	80	85	87	85	80	..	83.4
	Minimum	61	64	66	70	69	70	67	68	68	61	63	51	52	58	59	57	58	70	69	66	48	48	49	48	49	54	58	58	59	61	..	60.0
Lexington§§	Maximum	93	99	103	101	102	98	96	98	99	93	75	71	71	71	80	87	95	96	93	86	70	59	67	72	65	77	85	87	87	81	..	85.2
	Minimum	64	66	63	72	68	76	73	70	73	65	67	55	60	61	57	58	63	72	73	70	55	57	52	51	56	57	57	58	58	67	..	63.1
Maryville	Maximum	89	94	97	96	97	93	87	91	83	75	68	71	72	70	76	84	92	92	92	83	62	56	67	77	69	68	81	83	84	79	..	80.9
	Minimum	65	67	67	69	70	71	68	67	67	63	52	52	59	60	60	60	71	71	74	59	46	48	47	48	53	55	58	61	60	65	..	61.1
Oregon	Maximum	87	91	96	97	95	92	87	91	84	77	66	64	65	69	74	85	93	97	94	80	60	55	60	72	64	68	78	79	82	80	..	79.4
	Minimum	64	70	69	70	72	72	70	68	67	63	53	51	56	58	58	61	70	69	73	56	50	48	50	48	54	54	58	60	62	64	..	61.3
St. Joseph	Maximum	94	98	98	99	100	94	91	95	86	80	67	65	73	73	79	88	95	98	91	82	59	56	65	75	64	72	84	87	87	83	..	82.7
	Minimum	67	74	74	76	78	78	71	72	67	66	53	53	60	61	60	63	74	75	75	58	50	52	52	52	57	57	61	63	64	64	..	64.2
Trenton	Maximum	86	91	92	93	95	91	88	86	88	80	76	69	67	67	68	80	89	88	89	84	78	61	65	71	67	74	77	78	80	74	..	79.7
	Minimum	..	..	72	74	74	75	74	71	70	65	61	54	59	61	60	61	70	72	74	59	50	52	54	51	53	56	61	60	60	63	..	^{b}63.1

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^{a}, ^{b}, ^{c}, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 11-5-25—860.

NMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

L. XXIX. COLUMBIA, MO., OCTOBER, 1925. No. 10.

GENERAL SUMMARY.

ne could not very well pick out any one outstanding weather feature October, 1925, in Missouri. All the main elements were more or less ew or abnormal. As a usual thing October in Missouri is a fine asant month, and one possessing much economic value, in as much here is open weather for accomplishing fall farm work, and other oor occupations, and the necessity for heating homes is kept down a minimum. Now and then an October is bad. But the current nth was, to use a public expression, "horrid".

The month was cloudy, wet, and cold. The coldest October of record d it runs close to being the wettest, certainly the cloudiest. The first ee days were quite balmy. But nearly every day thereafter was colder n normal, some as much as 20 to 25 degrees colder. The first general st and freeze occurred on the 10th; the second on the 19th, with ing almost nightly thereafter. A cold wave with snow swept the te the night of the 27th, followed by winter cold; for forty to seven-ive consecutive hours the temperature did not rise above 32°. On morning of the 30th zero cold was recorded in the northern-border nties. According to our records this never has occurred before.

Corn gathering was delayed by wet weather and very little was bbed; down corn was damaged. Wheat seeding was dragged out over ng period and at the close of the month less than one-half of the crop in the ground. Much late forage was damaged. On the other hand, s of winter clothing and household fuel were brisk.

TEMPERATURE.

The monthly mean temperature for the State, 68 stations reporting, s 48.6°, or 8.8° lower than the 36-year average. It was the coldest tober of record, beginning in 1888. Except the first three days of the nth and locally on the 13th, every day was colder than normal, the ly deficiency running as high as 25°, the average for the month being ut 10°. Real and severe winter weather prevailed the last week. mperatures fell to zero and lower at the north-border stations, and m 12° to 20° above to the extreme southern limits of the State, on the h. The minimum was 3° below zero, at Grant City and Unionville. is is the first zero cold ever recorded in October, according to our rds; 11° above in 1913, being the coldest before this year.

PRECIPITATION.

The average precipitation for the State, 101 stations reporting, was 5 inches. The departure from the 56 years' average was plus 2.10 hes. Only four other Octobers since 1867 were wetter than the current nth, namely in 1877, 1881, 1883, and 1919; several others, however, e nearly as wet. All sections received more than the normal precipi-on but the excess moisture was much less marked in the western f than the eastern half of the State. Not more than three consecutive s passed without some rain. The southeastern lowlands received far most rain. the total for the month being considerably more than ble the usual; the greatest local monthly amount was 11.44 inches, Dexter.

Snow fell on the 28-29th, with appreciable snow cover everywhere; the al depths ranged from near 2 inches in the southern sections to 3 hes in the northwest section.

WIND.

The prevailing winds were from the north. The average monthly vement, 8 stations equipped with anemometers reporting, was 6,254 es, an hourly velocity of 8.4 miles, or about normal. There were high or damaging winds, except locally in Macon County.

SUNSHINE AND CLOUDINESS.

There were only 8 clear days. The average number of hours of sun-ne for the State, based upon 6 well placed stations equipped with shine recorders, was 132. This is about 38 per cent of the possible, ut 28 per cent below normal, and 41 per cent less than October, 1924.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---1st, 3d, 12th, 13th, 14th, 16th, 24th, 30th, and 31st.
Frost, light to heavy on the 9th.
Frost, killing.---On the 10th generally.
Hail.---Small hail fell at a few stations on the 2d, 3d, and 23d. No mage.
Halos, solar.---15th, 22d, 23d, and 27th.
Halos, lunar.---10th, and 28th.
Sleet.---Some little sleet fell on the 9th, 27th, and 29th.
Thunderstorms.---1st, 2d, 3d, 4th. 14th, and 23d.

SPECIAL STORM NOTES.

At about 1 p. m. on the 4th quite a severe storm occurred at Atlanta, Macon County. The newspapers referred to it as a "tornado", but after investigation it seemed to have been a thunderstorm squall. The width of the path was one to one and a fourth miles, and about twenty miles long. No twisting winds were observed nor funnel-shaped cloud. The path of damage was one-half to three-fourths mile wide. The general trend of the storm was from northwest toward southeast. The attending hail was about the size of playing marbles; some few stones being reported as large as "hen eggs". The damage to buildings was confined to unroofing buildings, blowing down chimneys, etc. Damage put at about $5,000. Crop damage, principally by hail, was estimated at about $1,500.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.07	88	74	135	39	5,174	7.0	30	nw.	21
Hannibal	30.07	87	..	...	..	5,372	7.2	28	nw.	26
Kansas City	30.08	82	69	166	48	7,745	10.4	40	nw.	21
St. Joseph	30.07	85	69	140	40	5,895	7.9	36	nw.	21
St. Louis	30.06	82	69	84	24	8,101	10.9	44	nw.	26
Springfield	30 06	89	73	135	39	6,976	9.4	32	w.	21
Cairo, Ill	30.05	87	74	...	..	6,022	8.1	31	n.	28
Keokuk, Iowa	30.09	85	72	135	39	4,744	6.4	29	nw.	26

COMPARATIVE DATA FOR OCTOBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	53.6	−3.5	89	24	2.65	+0.21	......	....	7	....	....	....
1889	53.8	−3.3	91	27	2.50	+0.06	......	....	6	....	....	....
1890	54.8	−2.3	91	22	2.24	−0.20	......	....	6	....	....	....
1891	55.7	−1.4	98	19	1.11	−1.33	......	....	3	....	....	....
1892	57.5	+0.6	95	16	2.28	−0.16	2.40	0	5	16	7	8
1893	56.7	−0.4	95	16	0.99	−1.45	2.81	....	10	20	8	3
1894	57.6	+0.5	94	18	1.74	+0.70	3.52	T.	6	17	8	6
1895	54.2	−5.9	89	15	0.35	−2.09	1.20	T.	2	21	6	4
1896	54.1	−3.0	90	19	2.48	+0.04	2.68	0	5	19	6	6
1897	62.5	+5.4	99	23	0.71	−1.73	1.70	0	3	22	6	3
1898	53.5	−3.6	94	19	4.23	+1.79	4.51	1.4	8	11	7	13
1899	62.4	+5.3	100	24	2.93	+0.49	2.53	0	5	20	6	5
1900	62.4	+5.3	92	25	4.18	+1.74	4.04	0	7	17	7	7
1901	60.1	+3.0	96	24	1.64	−0.80	2.98	0	6	18	8	5
1902	59.5	+2.4	88	28	2.52	+0.08	2.69	0	5	21	5	5
1903	57.2	+0.1	90	19	2.85	+0.41	3.80	0	6	19	6	6
1904	57.6	+0.5	90	19	0.90	−1.54	2.46	0	3	20	7	4
1905	55.1	−2.0	90	20	4.64	+2.20	7.24	0.3	5	17	6	8
1906	56.3	−0.8	94	17	0.87	−1.57	1.50	0	10	15	7	9
1907	56 7	−0.4	94	18	2.90	+0.46	3.46	0	7	19	5	7
1908	56.3	−0.8	92	21	2.74	+0.30	4.90	0.8	5	18	6	7
1909	57.2	+0.1	96	20	2.77	+0.33	2.57	T.	6	19	5	7
1910	59.4	+2.3	94	15	2.71	+0.27	5.50	0	5	22	4	5
1911	56.9	−0.2	96	25	3.30	+0 86	5.12	0.2	8	11	7	13
1912	59.1	+2.0	97	21	3.83	+1.39	5.12	0.7	6	20	5	6
1913	54.7	−2.5	93	11	4.46	+1.94	2.80	3.3	9	15	6	10
1914	59.2	+2.0	88	19	4.54	+2.04	5.40	0	7	14	6	11
1915	59.8	+2.9	95	22	1.19	−1.45	1.97	0	3	23	5	3
1916	58.0	+0.7	95	20	2.17	−0.54	3.90	0	6	18	5	8
1917	49.8	−7.4	93	12	1.16	−1.49	2.00	0.2	6	16	8	7
1918	60.6	+3.5	95	28	3.37	+0.71	5.61	0	7	14	6	11
1919	58.4	+1.4	98	17	6.74	+3.92	4.91	0	11	10	7	14
1920	61.3	+4.3	93	18	2.89	+0.25	2.45	T	7	17	6	8
1921	57.9	+0.8	92	24	2.19	−0.40	2.32	0	5	21	5	5
1922	59.9	+2.4	97	18	2.00	−0.77	3.00	0	5	20	5	6
1923	53.0	−4.4	89	17	3.39	+0.64	2.76	0.1	9	15	5	11
1924	61.8	+4.4	92	21	1.22	−1.53	2.73	0	4	22	5	4
1925	48.6	−8.8	92	− 3	4.85	+2.10	3.12	2.4	10	8	8	15

Climatological Data for October, 1925.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	47.0	− 8.2	84	2	14	30	37	3.61	+0.88	0.94	1.5	15	10	0	21	ne.	O. K. Benecke
Clifton Hill	Randolph	731	26	45.9	−11.3	79	1†	11	30	37	2.82	+0.70	1.08	0.6	11	6	6	19	......	Dr. A. J. Bradsher
Columbia	Boone	748	35	47.2	− 9.4	79	2	20	28	32	4.63	+2.21	1.48	0.8	10	3	13	15	n.	U. S. Weather Bureau
Downing	Schuyler	878	4	44.4	......	75	2	0	30	34	3.73	+1.53	0.80	4.5	14	7	2	22	n.	E. E. St. Clair
Fayette	Howard	661	45	47.0	− 9.7	80	2	16	30†	39	4.38	+1.90	1.61	0.2	9	..	..	..	......	L. W. Jacobs, jr.
Fulton	Callaway	818	37	48.4ᶜ	− 9.3	73	1	19	31	35	5.60	+2.85	1.23	0.2	10	14	12	5	......	Chamber of Commerce
Gorin	Scotland	700	38	....	......	..	..	..	..	..	3.47	+1.09	0.77	6.5	12	6	1	24	nw.	J. W. Pulliam
Hannibal	Marion	534	33	46.0	−10.0	77	2	13	30	27	3.73	+2.09	1.60	3.6	14	4	10	17	nw.	U. S. Weather Bureau
Jefferson City	Cole	557	37	48.0	− 8.6	78	2	20	28†	35	4.21	+1.62	1.15	1.0	11	10	11	10	n.	Miss Emma Swift
Kirksville	Adair	969	36	43.9	−10.8	75	2	1	30	30	4.05	+1.32	1.06	7.0	11	10	2	19	w.	Prof. J. S. Stokes
Louisiana	Pike	469	31	48.4	− 7.9	78	1†	12	30	31	5.91	+3.28	2.06	2.0	16	8	9	14	n.	J. T. Farrell
Macon	Macon	875	26	44.8	−12.0	80	2	7	30	32	3.26	+0.53	0.75	1.9	14	6	8	17	se.	W. C. Brown
Mexico	Andrain	800	36	46.9	− 9.5	80	2	17	30	31	6.86	+4.48	2.22	0.4	13	11	0	20	se.	Mrs. Abbie Snoddy
St. Catharine	Linn	800	14	45.2	−10.7	75	2	3	30	30	3.09	+1.13	0.57	5.0	15	6	10	15	n.	L. D. Baker
St. Charles	St. Charles	456	37	50.0	− 8.1	81	2	19	30	32	3.44	+0.77	1.01	0.2	5	2	11	18	n.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	49.5	− 9.3	80	2	21	30	21	4.32	+1.91	1.71	0.1	10	4	9	18	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	49.2	− 9.7	79	2	22	30	19	3.70	−0.09	1.15	T.	9	5	8	18	se.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	..	..	..	4.09	+1.37	1.05	3.1	15	..	..	..	.....	J. C. Jewett
Steffenville	Lewis	650	27	46.6	−11.1	83	2	7	30	33	3.47	+1.35	0.90	5.5	11	7	11	13	n.	Frank Hall
Unionville	Putnam	1,062	32	44.0	−11.4	75	2	− 3	30	30	3.85	+1.39	0.75	8.0	11	11	7	13	n.	Geo. W. Davis
Warrenton	Warren	816	43	49.0	− 6.6	75	2	19	30	28	5.77	+2.91	1.77	0.5	14	7	10	14	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	44.2	−11.2	75	2	13	30	27	2.56	+0 07	0.75	6.6	13	6	9	16	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	46.8	− 9.7	84	2	− 3	30	39	4.12	+1.60	2.22	2.7	12	7	7	17	n.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	29	58.8	− 2.9	92	1	30	30	33	8.95	+5.99	2.00	T.	7	8ᵇ	10ᵇ	11ᵇ	.....	L. W. Dillman
Doniphan	Ripley	344	21	53.6	− 4.8	85	3	25	29	37	4.93	+1.88	1.30	2.0	10	2	18	11	n.	W. W. Martin
Jackson	Cape Girardeau	428	34	50 4	− 7.6	78	4	21	31	26	8.64	+5.42	2.65	2.7	13	3	7	21	n.	John G. Putz
Marble Hill	Bollinger	470	30	53.0	− 5.0	84	4	20	31	35	8.49	+5.84	3.12	2.0	12	6	8	17	n.	R. A. DeWitt
Parma	New Madrid	281	4	....	......	..	..	..	..	..	10.45	......	2.75	4.5	9	..	..	..	......	O. O. Stires
Patton (near)	Bollinger	500	16	....	......	..	..	..	..	..	5.47	+2.30	1.30	3.5	9	..	..	..	......	George F. Ellis.
Poplar Bluff††	Butler	329	21	51.3	− 9.0	80	7	21	30	31	8.36	+5.16	2.12	3.0	13	9	9	13	e.	J. H. Wolpers
Vanduser	Scott	304	24	....	......	..	..	..	..	..	11.23	+8.63	1.95	3.0	10	..	..	..	.....	M. L. Armstrong
Cairo, Ill.	Alexander, Ill	359	50	53.6	− 6.8	84	4	26	29	23	10.53	+7.90	2.84	2.0	13	6	7	18	n.	U. S. Weather Bureau
Section means and	extremes	....	..	53.4	− 6.0	92	1	20	31	37	8.56	+5.39	3.12	2.5	11	6	10	15	n.	
Ozark Plateau.																				
Arcadia	Iron	926	44	48.5	− 7.6	83	2	16	31	37	6.96	+3.89	1.79	2.3	11	10	0	21	nw	Arcadia College
Birchtree	Shannon	1,000	30	52.3	− 5.9	86	3	20	31	37	8.77	+6.19	2.10	0.5	11	13	4	14	nw.	V. H. Kirkendall
Bolivar††	Polk	1,071	31	51.0	− 7.5	87	2	18	28	30	1.56	−1.75	0.81	0.3	6	10	3	18	n.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	90	3	..	..	..	3.75	+0.26	1.43	T.	10	13ᵃ	3ᵃ	14ᵃ	w.	H. E. Dean
Eldon	Miller	934	29	48.0ᵃ	− 9.7	81	2	19	30†	39	3 32	+0.29	1.19	2.0	12	3ᶜ	10ᶜ	15ᶜ	sw.	E. H. Shepherd
Farmington	St. Francois	918	14	51.1	− 5.3	83	2	19	31	36	4.72	+1.83	0.92	2.0	12	5	10	16	ne.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	49.8	− 8.2	81	2	16	31	36	3.71	−0.17	1.32	1.6	14	6	7	18	se.	A. C. Leach
Goodland	Iron	1,000	31	50.6	− 5.2	84	1†	15	31	40	4.83	+1.61	1.30	5.0	8	4	7	20	s.	F. M. Adams
Greenville	Wayne	381	3	52.4	......	83	1†	19	31	34	9.19	......	3.04	4.0	10	12	6	13	n.	Wm. P. Owens
Hailey	Barry	1,350	0	....	......	..	..	..	..	..	5.28	......	1.30	T.	9	14	3	14	e.	A. W. Madison
Hollister	Taney	735	38	54.8	− 5.6	90	3	12	31	47	7.10	+4 27	1.70	0	7	11	4	16	n.	Mrs. W. P. Chapman
Houston	Texas	1,280	30	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	Hugh Stone
Koshkonong	Oregon	958	24	53.8	− 6.2	85	3	23	30†	38	8.53	+5.62	1.95	0.2	12	12	5	14	ne.	R. M. Hitt
Lebanon	Laclede	1,265	37	49.8	− 8.2	86	2	15	31	37	3.09	−0.17	1.18	2.0	10	7	5	19	n.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	50.7	− 7.9	88	4	19	28†	34	3.82	+0.37	1.06	6.5	7	9	7	15	nw	C. S. Crow
Mountain Grove	Wright	1,463	24	49.0	− 8.6	85	3	18	31	37	5.74	+2.69	1.66	T.	12	8	7	16	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	52.8	− 6.4	87	3†	15	31	44	3.38	−0.01	0.85	T.	12	14	6	11	nw	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	50.5	− 5.4	80	2	19	28	36	2.22	−0.73	0.64	2.0	11	10	8	13	w.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	53.8	− 4.5	86	3	19	28	36	5.56	+2.62	1.39	T.	10	5	11	15	e.	Floyd E. Fawver
Seymour (near)	Webster	1,642	19	50.9	− 6 6	85	3	12	31	38	5.95	+2.94	1.57	0.1	10	13	4	14	s.	Ira H. Hailey
Springfield	Greene	1,350	37	49.5	− 8.7	84	3	19	28	32	2.82	+0.02	0.83	0.2	12	12	3	16	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	51.1	− 6.0	90	3	12	31	47	5.02	+1.48	3.04	1.1	10	9	6	16	n.	
Southwest Plain.																				
Amoret	Bates	831	18	48.6	− 8.5	88	3	16	31	41	2.28	−0.24	1.08	2.0	8	10	7	14	n.	Andrew Rood
Appleton City	St. Clair	853	31	50.4	− 8.7	88	3	19	28	37	3 02	+0.68	1.00	2.6	12	8	12	11	ne.	W. G. Bigelow
Clinton	Henry	765	32	51.5ᵃ	− 7.1	88	3	20	29	41	3.93	+1.12	1.38	4.0	10	5	8	18	nw.	A. E. Derwent, M. D
Harrisonville	Cass	904	48	47.0	− 9.0	87	3	17	28	38	3.96	+1.37	1.00	2.0	14	3	0	28	n.	John H. Patterson
Lamar	Barton	980	38	50.9	− 8.0	90	3	19	28	42	1.98	−1.15	0.65	1.0	7	10	7	14	ne.	Jesse A. Mann
Lamonte	Pettis	867	24	48.6	− 9.4	85	2	18	28	38	4.02	+1.69	1.04	0.6	11	5	14	12	e.	J. E. Wheeler
Marshall	Saline	779	36	48.8	− 7.8	84	2	18	31	38	5.49	+2.91	1.99	0.7	13	11	7	13	nw	Dr. W. H. Black
Nevada	Vernon	862	32	50.2	− 7.1	90	3	18	28	38	1.72	−1.36	0.80	2.0	7	11	5	15	n.	George A. Kaupp
Warrensburg	Johnson	878	38	49.8	− 8.3	83	3†	19	28	35	3.64	+1.09	0.77	0.5	12	6	9	16	ne.	L. B. Johnston
Warsaw	Benton	687	25	52.0	− 7.1	86	3	18	31	39	4.12	+0.81	1.59	2.5	11	10	6	15	n.	Everett Martin
Section means and	extremes	.....	..	49.8	− 8.1	90	3	16	31	42	3.41	+0.69	1.99	1.9	10	8	7	16	n.	
Northwest Plateau.																				
Avalon	Livingston	730	35	45.7	−12.8	80	2	8	30	35	3.50	+0.55	1.70	2.0	8	4	14	13	......	F. G. Ashbaugh
Bethany	Harrison	916	33	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	.....	Owen Ross
Chillicothe	Livingston	779	16	44.2	−14.0	79	2	4	30	35	3.41	−0.04	0.72	3.0	16	10	9	12	ne.	Wm. J. Olenhouse
Conception	Nodaway	980	36	43.8	−11.7	75	2†	− 1	30	36	2.95	+0.50	1.57	3.5	7	5	11	15	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	46.4ᵈ	......	80	2	12	30	45	1.90	−0.35	0.73	T.	8	12ᶜ	0ᶜ	16ᶜ	n.	Fred L. Stiff
Grant City	Worth	1,134	21	44.6	−10.8	80	2†	− 3	30	39	3.21	+0.49	0.87	6.5	7	9	11	11	n.	B. F. Locke
Kansas City	Jackson	963	36	47.6	−10.1	88	3	17	30	29	3.89	+1.68	0.95	0.5	8	7	10	14	n.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	44.0	−12.4	89	2	8	30	31	4.70	+2.08	2.02	3.0	12	10	4	17	ne.	Linn Terry
King City	Gentry	.....	..	....	......	..	..	..	..	..	3 62	......	2.00	2.5	10	..	..	..		D. B. Oliver
Lexington	Lafayette	688	40	48.0	− 9.5	81	3	18	28	36	5.49	+2.92	2.20	0.5	15	6	12	13	n.	Edwin G Loomis
Liberty	Clay	859	35	46.8	−10.7	83	2	13	30	41	1 98	−0.47	0.81	T.	5	11	4	16	....	W. F. Aull
Maryville	Nodaway	1,169	35	43.8	− 9.5	76	3	2	30	36	2.78	+0.11	1.05	7.5	8	10	2	19	n.	J. R. Brink
Oregon	Holt	1,048	69	44.1	−10.8	77	2	3	30	36	2.11	−0.45	0.54	4.0	7	10	18	3	nw.	Tom Curry
St. Joseph	Buchanan	967	17	45.2	−11.9	79	2	11	30	33	2.20	−0.23	0 70	1.2	12	8	8	15	ne.	U. S. Weather Bureau
Tarkio	Atchison	916	22	43.6	−11.9	79	3	− 2	30	38	3.77	+1.20	2.10	7.0	8	12	3	16	nw.	Albert Volker
Trenton	Grundy	822	29	44.8	−11.5	76	3	3	30	27	3.95	+1.39	1.38	4 0	13	6	13	12	n.	W. H. Estes
Section means and	extremes	.....	..	45.2	−11.4	89	2	− 3	30	45	3.30	+0.67	2.20	3.0	10	9	9	13	n.	
State means and	extremes	.....	..	48.6	− 8.8	92	1	− 3	30	47	4.85	+2.10	3.12	2.4	10	8	8	15	n.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used determining section or division means.

Reference letters, ᵃ, ᵇ, ᶜ, appearing in the table indicate number of days missing; for example, ᵇ, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gan

Salem, R. F. D. No. 5.

Daily Precipitation for October, 1925.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	1.65	....	1.15	2.40	T.	.05	.70	.21	....	....	....	.08	.27	....	.28	T.	1.20	....	....	....	....	....	....	.55	.07	....	....	.01	....	....	....	8.62
Brunswick‖	Grand	.52	....	.94	.10	....	.06	.10	....	....	....	.03	.02	.21	....	.24	.18	.70	....	....	....	....	....	....	.25	.12	....	....	.12	....	.02	....	3.61
Clifton Hill	Chariton	....	....	1.08	....	....	.17	.01	....	....	....	T.	.20	....	.15	....	.42	.36	....	....	....	....	....	....	.24	....	.13	.02	....	....	.04	....	2.82
Columbia***	Missouri	....	....	1.48	....	T.	.56	.13	....	....	....	.10	.18	....	.20	....	1.31	....	....	....	....	....	....	.40	.21	....	....	.06	....	T.	....	....	4.63
Downing	Mississippi	....	....	.80	.02	....	.26	....	....	T.	....	.03	.12	.03	.75	....	.27	.66	T.	....	....	....	....	T.	.24	....	.06	.18	.04	.27	....	....	3.73
Fayette‖|	Missouri	....	....	1.61	....	....	.42	.02	....	....	....	.09	....	....	.47	....	1.04	....	....	....	....	....	....	.58	.13	....	....	.02	....	....	....	....	4.38
Fulton‖	do	....	....	.76	.94	....	....	.81	....	....	.12	....	....	....	.61	....	.06	1.23	....	....	....	....	....	....	.94	.11	....	....	.02	....	....	....	5.60
Gorin	Mississippi	....	....	.39	....	....	.46	....	....	.03	....	....	.17	.19	.77	....	.76	....	.01	....	....	....	....	....	.16	....	.12	.14	....	.27	....	....	3.47
Hannibal***	do	....	T.	1.60	....	.01	.31	....	T.	T.	....	.07	.09	.02	.12	....	.84	.01	....	....	....	....	....	.12	.28	....	.05	.06	....	.15	....	....	3.73
Hermann‖	Missouri	.43	T.	....	1.54	....	T.	.43	....	....	....	.05	.05	.18	....	.04	.02	1.45	.03	....	....	....	....	....	.83	.08	....	....	.01	....	....	....	5.14
Jefferson City‖	do	.75	....	....	1.15	....	.03	.25	....	....	....	....	.10	.25	....	.30	....	.75	....	....	....	....	....	....	.45	.08	....	....	.10	T.	....	....	4.21
Kirksville	Mississippi	.28	....	1.06	....	....	.60	....	....	....	....	....	.30	.06	....	....	.58	.35	....	....	....	....	....	....	.22	....	....	.10	.05	.45	....	....	4.05
Louisiana	do	....	.06	.64	2.06	....	.30	....	....	.03	....	.06	.22	.03	.07	....	1.10	.66	....	....	....	....	....	....	.25	.26	.05	....	.02	.10	....	....	5.91
Macon ‖	Chariton	.65	.04	.40	.26	....	.11	....	.04	....	....	....	....	.29	.05	.15	....	.75	....	....	....	....	....	....	.22	.15	....	....	....	.11	.04	....	3.26
Mexico ‖	Mississippi	1.35	....	2.22	.50	....	.05	....	.31	....	....	.04	....	.16	.02	.20	....	1.09	....	....	....	....	....	....	.71	.18	....	....	.03	....	....	....	6.86
Milan‖	Grand	1.15	....	.22	.05	....	.12	.05	....	....	....	....	....	.17	.78	.06	....	.60	....	....	....	....	....	.20	.12	....	....	....	.10	.20	.30	....	4.12
Pacific‖	Meramec	1.06	....	....	2.14	....	....	.30	T.	....	....	....	T.	.21	T.	.05	....	.50	.02	....	....	....	....	....	.38	.06	....	....	T.	....	.02	....	4.74
St. Catharine	Grand	T.	....	.57	.03	T.	.46	....	....	....	....	.03	.20	.03	.33	....	.42	.32	....	....	....	....	....	T.	.28	.01	.07	.04	.07	.23	....	....	3.09
St. Charles	Missouri	....	....	.91	....	....	.73	....	....	....	....	T.	T.	....	T	....	.77	....	....	....	....	....	....	....	1.01	....	....	....	T.	....	.02	....	3.44
St. Louis (1)***	Mississippi	....	....	1.62	.09	T.	.85	....	T.	.01	....	.01	.25	....	.01	....	.62	T.	T.	....	....	....	....	.20	.66	T.	....	....	T.	T.	T.	....	4.32
St. Louis (2)	do	....	....	1.15	.02	....	.83	....	....	....	....	.01	.22	....	.02	....	.50	....	T.	....	....	....	....	.17	.78	....	....	....	T.	....	T.	....	3.70
Shelbina ‖|	do	.98	....	.20	1.05	....	.08	.15	....	....	....	....	.02	.11	....	.10	....	.75	....	....	....	....	....	....	.20	.11	.01	....	.09	.05	.19	....	4.09
Steffenville	do	....	....	.90	.10	....	.65	....	....	T.	....	.07	.18	....	T.	....	.40	.25	....	....	....	....	....	....	.25	.12	....	T.	.05	.50	....	....	3.47
Union‖|	Meramec	1.26	....	....	1.16	....	....	.44	.02	....	....	.01	.07	.12	....	.18	.02	.90	....	....	....	....	....	....	.56	.05	....	....	.01	....	.02	....	4.82
Unionville	Chariton	.20	T.	.75	T.	T.	.30	....	....	....	....	....	.15	.10	.75	....	.10	.55	....	....	....	....	....	....	.25	....	....	.20	T.	.50	....	....	3.85
Valley Park‖|	Meramec	.43	....	....	1.06	....	....	.64	....	T.	....	T.	.06	.26	T.	.03	T.	.56	....	T.	....	....	....	....	.68	.11	....	....	T.	....	T.	....	3.83
Warrenton	Mississippi	.30	....	1.77	83	....	.59	....	....	....	....	.05	.21	.03	.01	....	.80	.40	T.	....	....	....	....	....	.70	.03	....	....	.04	....	.01	....	5.77
Keokuk, Ia.***	do	T.	.21	.54	T.	T.	.41	....	....	T.	....	.01	.14	.04	.19	....	.21	.01	T.	....	T.	T.	....	T.	.17	....	.12	.30	T.	.21	....	....	2.56
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi	1.05	.63	....	.10	....	....	.48	.13	.01	....	....	.18	1.86	.07	.59	.40	1.20	....	....	....	....	....	....	.88	.05	....	....	T.	.03	.10	....	7.76
Caruthersville	do	1.05	....	....	....	1.07	....	2.00	1.80	....	....	....	....	....	....	....	1.60	....	....	....	....	....	....	1.25	....	....	....	....	T.	.18	....	....	8.95
Doniphan	Black	.74	....	....	.03	....	....	.15	....	....	....	....	....	....	.15	.55	1.30	....	....	....	....	....	....	.83	.84	.14	....	....	....	....	.20	....	4.93
Jackson	Mississippi	.53	....	.70	.03	....	....	.41	.06	....	....	....	2.65	....	.83	.10	1.92	.09	....	....	....	....	....	....	1.05	....	....	....	.02	....	.25	....	8.64
Marble Hill	Mississippi	.60	....	.35	.10	....	.07	.10	....	....	....	....	3.12	.12	.65	.20	1.73	....	....	....	....	....	....	....	1.25	....	....	....	T.	....	.20	....	8.49
New Madrid‖	do	.67	.61	....	....	....	....	.30	.60	.08	....	....	.25	1.27	.15	.55	.12	1.80	....	....	....	....	....	....	3.50	.05	....	....	....	....	.42	....	10.37
Parma	St. Francis	1.33	.10	.30	....	....	....	.95	....	....	....	....	1.92	....	.90	....	2.75	....	....	....	....	....	....	1.75	....	....	....	....	....	.45	....	....	10.45
Patton (near)	Mississippi	1.10	....	.33	....	.20	....	.41	....	....	....	....	.90	....	....	....	1.30	....	....	....	....	....	....	....	.92	....	....	....	.05	....	.26	....	5.47
Poplar Bluff	Black	.67	....	....	....	....	.15	.40	.03	....	....	.41	1.69	.12	.61	.65	1.17	....	....	....	....	....	....	2.12	.04	....	....	....	T.	.30	....	....	8.36
Vanduser	Mississippi	1.95	1.50	.73	....	....	....	....	1.07	....	....	....	1.93	....	.60	....	1.95	.03	....	....	....	....	....	1.15	....	....	....	....	....	.32	....	....	11.23
Cairo, Ill.***	do	2.75	.43	T.	T.	....	.42	.19	.07	....	....	T.	1.62	....	.68	.03	2.06	T.	....	....	....	....	....	1.84	.25	T.	....	....	T.	.17	.02	....	10.53
Ozark Plateau.																																	
Arcadia ‖	St. Francis	.64	....	....	1.57	....	....	.11	.17	....	....	T.	.63	1.16	T.	.63	.36	.62	....	....	....	....	....	....	.87	....	....	....	T.	....	.20	....	6.96
Birchtree	Black	1.36	....	....	.08	....	....	.65	.09	....	....	....	2.10	....	.75	.55	1.42	....	....	....	....	....	....	.30	1.33	....	....	....	....	....	.14	....	8.77
Bolivar	Osage	.81	....	....	.32	....	....	....	....	....	....	....	.09	....	....	....	.07	....	....	....	....	....	....	....	.12	....	....	....	.15	....	....	....	1.56
Dean	Neosho	1.43	....	....	....	..	....	.04	....	....	....	....	.09	T.	.14	.50	.77	....	.11	....	....	....	....	.60	.04	.03	....	....	..	T.	....	....	3.75
Eldon ‖|	Missouri	....	....	....	.29	....	.34	.05	....	....	....	.11	.16	....	.08	.03	1.19	....	....	....	T.	....	....	.72	.10	.03	....	....	....	.22	....	....	3.32
Farmington	St. Francis	.56	....	.92	T.	..	T.	.28	....	....	....	.02	.74	....	.20	....	.84	.15	T.	....	....	....	....	....	76	.07	....	....	.14	....	.04	....	4.72
Fredericktown‖|	do	.40	.65	.29	.55	.71	.26	.31	22	.92	.83	.24	.12	.66	.77	.65	.37	T.	....	....	.22	....	....	....	T.	.32	....	....	.27	.36	....	....	9.12
Galena‖|	White	.95	....	....	..	.75	....	.08	.31	.02	....	....	...	.08	.04	.53	1.35	.20	....	....	....	....	....	.97	.05	....	....	....	....	....	....	....	5.33
Gano	Meramec	.80	...	.17	....	....	T.	.15	.06	....	....	.04	.80	....	.06	.04	1.10	.22	T.	....	T.	....	....	....	.07	.06	....	....	.11	.03	T.	....	3.71
Goodland	Black	.93	....	.60	....	....	....	....	....	....	....	....	1.15	....	.40	....	1.30	....	....	....	....	....	....	....	.10	....	....	....	.27	....	.08	....	4.83
Greenville	St. Francis	.92	....	.44	....	....	....	.49	.14	....	....	....	3.01	....	.31	.26	1.87	....	....	....	....	....	....	....	1.47	....	....	....	T.	....	.25	....	9.19
Hailey	White	....	....	....	1.30	....	....	.29	....	....	....	....	.08	.20	.85	....	1.19	....	.29	....	....	....	....	.69	.39	....	....	T.	T.	T	....	....	5.28
Hollister	do	....	....	....	1.00	....	....	1.70	.50	....	....	1.00	....	....	....	.80	1.00	....	....	....	....	....	....	....	1.10	....	....	....	....	....	....	....	7.10
Houston	Gasconade	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Jerome ‖	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Koshkonong	Black	.95	....	....	.15	....	....	.70	.82	.03	....	....	1.95	....	.15	.81	1.38	....	....	....	....	....	....	.90	.53	....	....	....	....	....	.16	....	8.53
Lebanon ‖	Osage	1.18	....	....	....	....	....	.07	.05	....	....	....	.24	.03	....	.20	....	.90	T.	T.	....	T.	....	....	.17	.05	....	....	.20	....	T.	....	3.09
Lockwood	do	1.06	....	....	.93	....	....	....	....	....	....	....	.62	.03	T.	T.	.70	....	....	....	....	....	....	....	.45	....	....	....	.03	T.	....	....	3.82
Mountain Grove‖	White	1.66	....	....	.44	....	....	T.	.05	.02	....	T.	.03	.67	.10	.47	1.15	.37	T.	T.	....	....	....	....	.73	.05	....	....	T.	....	T.	....	5.74
Neosho	Neosho	.76	....	....	.07	..	T.	.27	.14	....	....	....	.08	T.	.09	.85	.59	T.	.03	T.	....	....	....	.05	.40	.05	....	....	....	T.	T.	....	3.38
Rolla	Meramec	....	....	.25	....	T.	.15	02	..	....	....	.32	.18	....	.08	.06	.64	....	....	....	....	....	....	.37	.05	....	....	.10	....	T.	....	....	2.22
Seligman	Neosho	1.39	....	....	....	....	....	.29	.25	....	....	....	....	....	.32	.69	1.15	....	.09	....	....	....	....	.96	.23	....	....	....	....	T.	....	....	5.56
Seymour (near)	White	1.37	....	...	.46	....	....	.09	.06	....	....	....	.38	T.	.12	.56	1.57	...	T.	T.	T.	....	....	T.	1.33	....	....	....	T.	T.	01	....	5.95
Springfield***	do	.50	....	....	.66	....	.10	.02	.04	....	....	T.	.04	....	.23	....	.83	....	.03	....	...	....	....	.30	.05	....	....	....	.02	T.	....	....	2.82
Steelville‖	Meramec	.50	....	....	1.81	....	....	.14	.04	....	....	.03	.24	.34	....	.98	.23	.54	....	....	...	....	....	....	.53	.07	....	....	.15	T.	....	.03	5.63
Tuscumbia ‖	Osage	1.49	....	....	.28	....	T.	.25	T	....	....	....	.28	.08	..	.03	.10	.81	....	....	....	....	....	....	.30	.06	....	....	.70	....	T.	....	3.78
Willow Sprgs.‖| (near)	White	1.16	.02	....	....	.42	....	.08	.06	.02	....	....	.10	.62	.09	1.17	.90	.19	....	....	....	....	....	....	2.16	.02	....	....	....	....	.02	....	7.03
Southwest Plain.																																	
Amoret	Osage	....	....	....	.08	....	....	T.	....	....	....	....	.07	....	.30	....	1.08	.25	....	....	....	....	....	.23	.07	....	....	...	.20	....	....	....	2.28
Appleton City	do	.70	....	....	.06	....	.22	.21	.01	....	....	T.	.14	....	.01	....	1.00	.18	....	....	....	....	....	T.	.14	.08	....	....	.27	....	T.	....	3.02
Clinton	do	.85	....	.10	....	....	.23	.03	.05	....	....	....	.14	....	.63	....	1.38	....	....	....	....	....	....	....	.32	....	....	....	.20	....	....	....	3.93
Harrisonville‖	do	.27	....	..	....	.03	.05	.25	....	....	....	.04	.10	.05	.09	.81	.07	1.00	....	....	....	....	....	....	.82	.08	....	....	.30	....	....	....	3.96
Joplin*	Neosho	.78	....	....	.03	....	T.	.16	.03	....	....	....	.06	.02	.47	....	.34	....	T.	....	....	....	....	.08	....	....	....	....	....	....	....	....	1.97
Lamar ‖	do	.46	....	....	....	.65	....	....	.04	....	....	....	T.	....	T.	....	.24	.37	....	....	....	....	....	....	.12	T.	....	....	.10	....	T.	....	1.98
Lamonte	Missouri	.15	....	....	....	....	.45	....	.04	....	....	....	.50	....	.95	....	1.04	.14	....	....	....	....	....	.12	.56	.01	....	....	....	.06	....	....	4.02
Marshall	do	.11	.10	1.99	....	....	.57	....	....	....	....	....	40	.02	.45	....	.70	.31	....	....	....	....	....	....	.70	.07	....	T.	.05	T.	.02	....	5.49
Nevada	Osage	.18	....	....	.18	....	T.	.29	....	....	....	....	.05	....	T.	....	.80	....	....	....	T.	....	....	T.	.02	....	....	....	.20	....	....	....	1.72
Osceola‖|	do	1.80	....	..	....	....	....	.07	....	....	....	....	....	....	.12	....	....	.75	....	....	....	....	....	....	.13	.07	....	....	.10	....	.05	....	3.09
Warrensburg	Missouri	.02	....	....	.07	....	.43	....	....	....	....	.02	.32	....	.67	....	.77	.44	....	....	....	....	....	.02	.73	.10	....	T.	.05	T.	....	....	3.64
Warsaw	Osage	1.59	....	....	T.	....	.32	T.	.07	....	....	....	.12	....	.45	....	.83	.12	....	....	T.	....	....	....	27	.10	....	....	.20	....	.05	....	4.12
Waverly ‖	Missouri	.62	....	1.59	.02	....	.04	.45	.01	....	....	T.	.01	.25	.01	.31	T.	.78	....	....	....	....	....	....	.67	.08	....	....	T.	....	T	....	4.84
Northwest Plateau.																																	
Albany‖|	Grand	T.	....	....	....	....	.27	....	....	....	....	....	....	.26	.80	....	.22	....	....	....	....	....	....	....	....	....	....	....	.40	....	....	....	1.95
Avalon	do	....	....	.80	....	....	....	.10	....	....	....	....	....	.35	....	.10	1.60	....	....	....	....	....	....	.35	....	....	....	....	.15	....	.05	....	3.50
Bethany	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Chillicothe ‖|	do	.56	T	.63	.10	....	.06	.01	.02	....	....	T.	.18	.12	.47	.02	....	.72	.02	T.	....	....	....	....	.21	11	.03	....	T.	T.	.15	....	3.41
Conception	Missouri	T.	T.	1.57	....	T.	.06	....	....	...	....	....	.21	T.	.56	....	.11	....	T.	....	....	....	....	.14	T	....	....	T.	....	.30	....	....	2.95
Edgerton	do	.01	....	....	....	....	.06	....	....	....	....	....	.40	T.	.73	....	.22	.26	T.	....	....	....	....	.03	.19	....	....	T.	T.	T	....	....	1.90
Gallatin ‖	Grand	....	....	.60	.67	....	.60	T	....	....	....	....	.10	.15	.80	T.	....	.01	....	....	....	....	....	....	.22	T.	....	....	T.	.14	....	....	3.89
Grant City	do	T.	.87	T.	....	....	.40	....	....	....	....	....	.08	T.	.87	....	T.	....	....	....	....	....	....	T.	.40	....	....	.05	....	.54	....	....	3.21
Kansas City***	Missouri	...	....	T.	T.	T.	.81	T.	....	....	....	.01	.38	T.	.95	....	.93	....	....	....	....	....	....	.60	.15	....	....	.06	....	T.	....	....	3.89
Kidder ‖	Grand	.10	....	2.02	.40	....	.04	.02	....	....	....	....	.14	.16	.58	....	....	.57	....	....	....	....	....	....	.40	....	....	....	....	.10	.17	....	4.70
King City	Missouri	.02	....	2.00	....	.10	....	....	....	....	....	....	.25	....	.50	....	.04	.15	....	....	....	....	....	....	.28	....	....	.01	.27	....	....	....	3.62
Lexington ‖	do	2.20	.01	.10	.03	....	.60	.01	.05	....	.05	....	.30	.05	....	.30	....	.92	....	....	....	....	....	....	.70	.10	....	....	....	....	....	.07	5.49
Liberty ‖	do	.02	....	....	....	....	....	.39	....	....	....	....	....	.34	.42	....	.81	....	....	....	....	....	....	....	....	....	....	....	T.	....	T.	....	1.98
Maryville	do	....	....	1 05	....	....	....	....	....	....	....	....	.15	....	.52	....	.09	....	....	....	....	....	....	.05	.16	....	T.	.06	....	.70	....	....	2.78
Oregon	do	T.	....	.52	....	....	T.	.12	....	....	....	....	.32	....	.54	....	.17	....	....	....	....	....	....	.20	....	....	T.	....	....	.24	....	....	2.11
St. Joseph***	do	T.	.01	.45	T.	.03	.10	...	....	....	T.	....	.29	.02	.68	....	.18	....	T.	....	....	....	....	.32	.02	....	....	.01	T	.09	....	....	2.20
Tarkio	do	....	...	2.10	....	....	.27	....	....	....	....	....	.28	....	.43	....	.09	....	....	....	....	....	....	....	.10	....	....	.07	....	.43	....	....	3.77
Trenton	Grand	.02	.56	.06	....	.17	.03	....	....	....	....	.03	.34	.74	....	....	1.38	....	T.	...	....	....	T.	.05	.27	T.	....	.09	....	.21	....	....	3.95

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch.

*** Regular U. S Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for October, 1925.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	70	84	75	70	67	77	57	59	46	54	58	59	63	59	64	54	52	53	47	50	65	54	58	41	52	48	50	31	28	43	49	56.0
	Minimum	61	60	64	59	43	45	41	45	36	27	36	49	53	54	41	44	33	36	27	28	28	29	33	40	32	37	26	18	20	14	20	38.0
Columbia	Maximum	72	79	74	70	64	58	58	60	46	54	59	59	63	62	62	52	52	54	46	48	64	54	60	46	51	49	52	32	27	36	48	55.2
	Minimum	62	63	61	50	42	48	48	43	34	28	44	54	55	49	43	42	39	33	29	27	32	33	41	36	35	30	24	20	24	20	23	39.1
Fayette	Maximum	73	80	73	72	72	57	57	62	47	55	57	60	65	62	66	52	52	55	49	50	65	56	60	45	51	51	52	35	29	42	49	56.5
	Minimum	60	61	62	58	39	47	45	45	33	25	26	45	53	55	40	45	36	39	26	25	26	35	32	39	32	41	23	18	19	16	16	37.5
Hannibal	Maximum	73	77	71	69	63	56	62	61	44	52	53	57	62	61	63	52	53	55	46	51	53	46	56	46	52	48	44	30	24	32	47	53.8
	Minimum	62	62	64	52	44	48	44	44	36	28	43	51	54	46	42	41	37	34	30	28	32	35	37	37	36	30	24	18	19	13	20	38.4
Jefferson City §§	Maximum	73	78	72	71	65	60	57	60	55	60	58	60	63	64	60	54	47	56	48	47	65	56	62	46	44	50	50	30	26	35	41	55.3
	Minimum	63	64	63	62	46	46	49	50	38	30	40	47	51	57	47	50	40	40	29	28	30	33	35	43	35	36	28	20	20	21	20	40.8
Kirksville	Maximum	65	75	70	66	64	56	57	57	45	50	54	52	59	58	61	56	52	47	45	48	55	51	52	45	50	46	38	34	24	31	46	51.9
	Minimum	59	60	61	57	41	46	36	42	32	25	39	48	49	50	36	42	30	35	26	26	28	30	35	35	29	34	28	12	15	1	25	35.9
Louisiana	Maximum	78	78	73	72	66	58	58	65	56	56	54	58	62	64	62	55	55	56	54	52	51	48	62	58	55	55	45	43	31	36	48	57.0
	Minimum	60	62	64	62	40	52	50	44	44	27	38	50	51	54	40	45	38	44	30	28	27	34	32	42	35	42	23	20	22	12	17	39.7
Macon §§	Maximum	70	80	67	68	63	55	60	60	46	57	55	53	62	61	64	53	53	51	48	51	55	51	56	43	51	49	44	32	27	35	48	53.8
	Minimum	61	62	62	57	41	45	37	42	32	25	32	49	50	52	38	42	30	34	25	25	27	30	31	38	31	40	22	16	18	7	9	35.8
Mexico §§	Maximum	71	80	67	68	65	56	59	59	58	52	57	59	64	63	65	52	55	58	49	43	60	53	58	44	55	51	49	32	26	37	49	55.3
	Minimum	60	52	62	59	42	45	46	48	37	27	33	45	54	55	40	47	38	40	28	28	30	33	36	41	33	36	24	20	19	17	18	38.5
St. Catharine	Maximum	69	75	74	67	61	59	57	57	47	50	55	55	60	60	62	57	51	48	46	48	59	52	54	47	49	47	41	39	26	33	44	53.2
	Minimum	62	61	67	58	42	49	39	44	33	27	39	49	49	52	39	45	31	39	26	26	29	29	37	37	31	37	23	15	18	3	20	37.3
St. Louis(1)	Maximum	73	80	68	74	64	61	61	61	50	53	55	57	62	66	64	58	49	55	47	49	53	49	62	55	52	50	50	36	30	37	48	55.8
	Minimum	66	66	65	55	49	54	51	50	38	35	43	55	55	56	50	49	41	39	33	33	37	36	41	39	39	36	31	24	24	21	28	43.2
Unionville	Maximum	70	75	72	65	64	62	60	56	45	52	55	54	60	60	61	60	54	50	45	53	55	51	53	46	50	45	41	35	28	36	45	53.8
	Minimum	56	58	60	55	40	45	34	40	31	22	37	46	48	50	35	42	35	34	26	26	30	27	35	35	30	28	20	10	14	− 3	14	34.2
Warrenton	Maximum	74	75	74	72	67	60	60	62	58	55	54	57	61	65	61	59	52	57	49	51	57	62	57	56	55	49	48	47	30	37	49	57.1
	Minimum	61	62	64	62	45	52	47	52	39	27	39	50	54	55	45	48	39	43	28	29	31	36	34	42	35	41	25	20	21	19	21	40.8
Southeast Lowlands.																																	
Caruthersville	Maximum	92	71	70	68	68	72	67	67	70	73	71	73	75	72	75	76	72	70	68	64	65	66	71	73	75	68	69	70	62	51	60	69.8
	Minimum	65	60	58	54	50	51	50	50	37	40	41	46	50	48	55	59	51	49	47	39	40	41	50	58	60	41	46	49	31	30	35	47.9
Doniphan	Maximum	79	80	85	84	67	84	79	59	56	54	65	60	64	66	64	68	68	60	57	51	65	65	64	68	53	58	60	56	34	38	48	63.2
	Minimum	67	54	59	63	49	47	53	55	45	33	37	49	46	53	55	58	49	48	31	27	32	40	42	49	42	45	37	28	25	26	24	41.1
Jackson	Maximum	77	76	76	78	71	73	64	56	56	53	57	57	59	64	65	62	66	52	53	47	51	51	62	59	50	53	51	46	29	33	47	57.9
	Minimum	65	66	59	66	45	53	51	54	42	30	35	51	53	58	52	55	43	45	30	24	31	37	38	48	38	41	26	23	23	24	21	42.8
Poplar Bluff	Maximum	72	74	74	74	73	79	80	59	58	51	56	57	61	61	61	69	69	54	54	48	57	57	56	56	54	50	59	53	31	31	34	59.2
	Minimum	67	59	67	46	50	53	56	47	31	36	51	55	55	58	52	49	47	30	26	32	48	40	52	40	41	29	28	24	25	21	28	43.4
Cairo, Ill.	Maximum	73	80	79	84	66	80	60	60	57	53	64	58	66	69	66	71	65	59	48	49	59	55	65	62	51	60	56	48	35	37	47	60.7
	Minimum	67	67	61	62	53	57	54	57	41	37	42	53	56	60	56	59	48	45	36	33	38	40	44	48	41	43	35	27	26	28	27	46.6
Ozark Plateau.																																	
Arcadia §§	Maximum	72	83	72	75	65	78	56	57	51	55	58	56	66	65	63	62	47	56	49	49	64	56	63	52	54	52	53	36	29	35	48	57.3
	Minimum	59	63	55	58	45	49	52	52	40	29	32	42	51	54	49	51	43	41	29	23	27	32	35	41	36	37	26	21	21	23	16	39.7
Birchtree	Maximum	78	83	86	79	68	85	63	60	55	55	60	59	62	69	65	64	63	60	56	51	68	62	66	55	58	54	56	50	33	39	51	61.7
	Minimum	64	63	62	64	45	53	52	53	40	31	40	51	55	59	51	51	42	44	29	25	31	38	43	47	37	41	27	23	22	23	20	42.9
Eldon §§	Maximum	70	81	77	78	72	72	58	51	57	61	61	65	65	61	55	45	58	47	48	66	63	62	58	55	51	56	33	28	33	51	..	ᵃ58.0
	Minimum	52	62	61	63	42	50	50	38	27	33	46	53	57	45	45	40	40	28	26	27	31	33	42	32	32	27	20	20	21	19	19	38.1
Farmington	Maximum	75	83	73	76	66	79	58	59	57	57	57	59	70	70	68	68	59	58	50	52	61	60	56	58	55	55	58	48	35	46	50	60.5
	Minimum	63	63	59	65	44	53	52	53	41	21	36	38	55	58	59	52	41	44	29	27	32	35	42	42	37	42	26	21	21	24	19	41.7
Hollister	Maximum	80	82	90	82	85	88	80	58	56	52	70	72	80	76	78	80	70	72	58	60	74	76	76	72	74	69	56	54	52	55	51	70.4
	Minimum	59	60	55	56	60	45	53	40	40	26	30	36	38	60	59	59	44	46	28	22	30	31	29	35	34	32	30	23	22	22	12	39.2
Koshkonong	Maximum	83	79	85	81	68	81	77	59	57	53	61	61	62	67	68	67	67	61	57	50	69	64	62	58	53	55	55	52	34	35	49	62.5
	Minimum	66	67	61	65	48	53	52	55	41	32	39	52	57	59	53	57	47	47	30	31	36	45	45	50	36	42	32	25	24	23	23	45.0
Lebanon §§	Maximum	79	86	85	75	72	79	61	60	50	58	63	62	69	72	65	65	64	60	49	53	66	67	70	53	57	50	56	36	31	33	50	61.2
	Minimum	62	59	60	64	40	41	51	52	36	21	31	45	52	56	49	51	38	39	25	24	28	32	34	43	29	25	26	17	17	21	15	38.3
Mountain Grove §§	Maximum	73	83	85	75	67	82	56	55	52	53	58	58	62	74	64	63	54	57	46	48	65	66	66	48	52	51	55	36	28	33	50	58.5
	Minimum	62	61	61	63	43	45	52	52	38	27	30	40	52	57	48	49	41	40	27	26	28	34	37	45	30	36	27	20	20	22	18	39.5
Neosho	Maximum	79	85	87	84	76	87	64	60	58	57	67	76	75	71	63	68	58	51	49	65	66	79	75	61	55	55	65	58	33	35	52	65.0
	Minimum	63	56	62	40	43	57	55	52	37	25	41	55	58	59	50	53	41	43	25	23	27	27	51	39	32	38	27	20	22	23	15	40.6
Rolla	Maximum	75	80	79	79	65	77	57	57	57	57	57	59	66	67	61	58	54	53	53	46	66	61	67	60	55	50	54	52	29	35	50	59.2
	Minimum	64	62	62	63	45	53	52	52	39	28	42	51	55	55	50	52	10	40	27	27	30	34	42	42	33	43	27	19	23	23	20	41.8
Springfield	Maximum	71	77	84	74	67	81	57	56	48	52	61	64	66	69	59	63	45	55	42	50	66	66	68	51	50	49	57	31	29	31	47	57.5
	Minimum	64	60	65	54	47	52	52	47	31	29	43	54	60	52	51	45	39	33	28	30	34	42	51	35	32	37	30	19	21	22	22	41.5
Southwest Plain.																																	
Amoret	Maximum	74	81	88	74	70	67	52	56	52	53	66	65	67	63	66	55	50	52	48	56	68	70	62	41	51	52	59	48	29	32	48	58.6
	Minimum	60	61	65	57	40	27	48	47	34	23	41	53	55	31	43	47	38	31	28	24	27	47	40	37	29	33	25	17	22	21	16	38.5
Appleton City	Maximum	73	81	88	69	67	70	55	56	52	54	65	62	66	65	64	57	49	51	46	53	68	68	61	53	52	52	58	54	30	32	48	59.2
	Minimum	62	59	66	59	45	54	49	51	35	29	46	56	57	56	46	48	40	38	27	28	31	39	47	37	32	41	30	19	24	20	21	41.7
Clinton	Maximum	75	83	88	80	78	68	57	58	54	51	65	75	70	65	65	60	52	55	51	53	67	66	..	63	51	59	61	52	32	32	46	ᵃ61.4
	Minimum	50	62	70	68	45	54	47	48	45	32	45	55	58	55	45	49	42	42	36	27	30	25	..	37	30	40	29	22	20	22	21	ᵃ41.6
Harrisonville §§	Maximum	73	82	87	71	62	57	52	55	52	52	62	63	63	62	67	52	48	50	50	54	68	63	58	40	51	53	52	33	28	32	47	56.1
	Minimum	60	60	61	59	45	46	45	45	32	26	27	48	53	53	42	42	33	33	25	26	30	37	38	38	30	31	30	17	18	19	19	37.8
Lamar §§	Maximum	76	85	90	69	74	80	60	56	52	58	67	75	73	66	62	57	47	55	47	56	71	77	70	45	55	54	65	30	32	34	50	60.9
	Minimum	63	62	62	68	46	46	55	53	37	28	29	50	58	60	47	47	40	39	27	27	29	36	41	41	31	31	30	19	20	23	20	40.9
Lamonte	Maximum	70	85	83	75	67	60	54	56	49	59	61	61	66	63	70	53	54	55	49	54	67	65	61	48	55	51	54	40	29	39	51	58.4
	Minimum	58	60	64	56	40	52	47	46	33	21	43	51	56	51	42	46	37	38	25	25	29	32	41	35	30	35	26	18	23	20	20	38.9
Marshall	Maximum	78	84	76	73	69	61	60	58	53	60	63	63	65	65	68	56	54	55	50	53	68	61	59	56	56	49	63	47	29	40	50	59.6
	Minimum	57	62	63	55	40	43	46	48	33	25	38	53	55	53	39	43	33	35	25	22	27	31	40	34	30	40	25	19	22	19	18	37.9
Nevada	Maximum	79	81	90	81	69	73	56	56	51	51	65	70	68	65	62	56	50	50	45	55	69	71	65	51	51	59	62	49	31	32	47	59.9
	Minimum	61	60	61	58	43	54	52	50	35	27	47	45	57	53	41	49	40	26	28	27	31	39	47	36	31	39	32	18	23	21	20	40.5
Warrensburg	Maximum	72	81	83	83	66	61	56	56	52	53	63	64	65	66	61	62	50	51	46	52	67	65	63	52	52	51	52	49	33	37	50	58.6
	Minimum	61	61	67	60	44	54	47	49	31	27	45	51	55	51	45	49	36	37	26	28	32	37	43	38	31	41	31	19	25	21	22	41.7
Warsaw	Maximum	79	85	86	86	71	74	68	60	59	57	63	63	68	67	67	63	53	56	47	53	68	69	66	67	55	52	57	57	30	38	52	62.5
	Minimum	62	71	64	60	43	56	51	51	37	26	46	56	58	50	46	48	40	42	29	23	29	36	42	38	31	42	26	19	23	19	18	41.4
Northwest Plateau.																																	
Chillicothe §§	Maximum	67	79	75	69	64	55	57	56	45	54	57	56	59	61	66	53	52	49	47	52	63	56	55	39	51	45	44	33	26	38	49	53.9
	Minimum	56	57	60	59	39	49	36	41	32	23	32	48	49	50	37	43	30	31	25	25	28	28	31	36	30	33	23	14	14	4	6	31.5
Grant City	Maximum	77	80	80	69	62	62	61	57	48	57	60	57	59	59	67	60	45	44	50	55	60	67	54	41	47	46	38	35	30	33	41	51.9
	Minimum	49	50	55	55	41	51	36	42	30	24	43	48	49	50	36	41	26	34	26	23	27	28	40	35	27	35	24	9	15	− 3	19	31.4
Kansas City	Maximum	70	81	88	68	62	56	53	55	47	51	60	61	60	60	64	55	48	49	47	51	67	65	53	41	50	47	51	31	26	36	48	55.1
	Minimum	62	64	67	51	49	43	42	41	34	33	45	51	51	49	45	40	36	34	28	36	39	40	41	36	31	38	22	18	22	17	25	40.0
Kidder §§	Maximum	65	89	75	70	64	59	55	58	48	51	58	53	59	60	66	52	55	41	47	53	65	57	55	39	38	53	46	30	26	38	48	54.2
	Minimum	59	58	60	55	40	43	36	38	30	25	27	45	48	48	38	30	29	30	25	25	28	31	31	31	28	30	24	13	13	8	9	33.9
Lexington §§	Maximum	71	79	81	70	63	59	53	56	50	54	59	60	60	60	61	55	50	61	48	52	67	60	57	48	51	48	51	43	27	35	46	56.2
	Minimum	60	62	65	61	43	54	42	47	33	26	43	53	52	52	41	45	31	37	27	28	31	35	40	37	32	40	28	18	23	19	22	39.7
Maryville	Maximum	65	72	76	69	60	55	55	50	47	53	56	52	57	60	66	57	51	41	48	52	65	60	54	39	47	46	39	29	25	35	47	52.6
	Minimum	55	58	62	51	42	43	36	40	29	25	44	19	49	18	37	40	27	31	25	25	29	35	39	31	28	30	24	10	15	2	19	35.1
Oregon	Maximum	66	77	75	70	60	55	55	52	43	50	59	54	58	55	62	55	48	41	43	49	65	59	56	41	48	53	48	34	41	33	44	53.4
	Minimum	53	59	63	53	43	43	36	39	30	25	43	48	48	45	39	39	28	33	21	26	30	38	38	34	28	28	23	11	8	3	21	31.8
St. Joseph	Maximum	65	79	77	68	60	55	55	53	57	54	57	55	58	58	66	52	51	45	45	52	67	61	53	40	49	47	45	29	28	37	49	53.5
	Minimum	59	62	64	50	45	41	39	38	32	29	46	50	50	43	43	36	31	32	28	30	31	39	40	36	33	31	20	11	18	11	24	37.0
Trenton	Maximum	67	74	76	66	61	57	56	55	17	49	57	51	60	57	60	51	49	48	47	49	59	50	50	44	49	45	15	30	25	30	40	51.9
	Minimum	60	60	64	56	45	45	39	45	33	28	42	50	50	51	41	42	31	35	28	29	32	32	40	37	32	34	30	14	18	3	21	37.6

ᵃ, ᵇ, ᶜ, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 11-23-25—875.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXIX. COLUMBIA, MO., NOVEMBER, 1925. No. 11.

GENERAL SUMMARY.

November, 1925, in Missouri, was without any very noticeable weather feature. The month was moderately cold and generally wet, except that less than the normal amount of rainfall occurred over the northwestern section. It was only about 6° colder than October. It normally is about 13° colder; but, to be sure, October, 1925, apparently borrowed considerable weather from December.

Except some real winter weather from the 7th to the 9th, temperatures alternated above or below the normal for several days at a time, the values either way being relatively small, though the negative values were somewhat more pronounced than the positive. For the State, as a whole, the month averaged nearly 2° colder than normal; the coldest November since 1920. It was not as wet, however, as either 1921, or 1922.

There was more rainfall than needful everywhere. This was particularly true in most of the southeastern counties where locally more than double the normal precipitation fell. Snow was general on the 7th, and 15th. It was unusually heavy over the central and northern parts of the State for so early in the season. North of the Missouri River some stations reported 5 to 7 inches of snow; and snow covered the ground from one to four days.

Because of the more or less wet condition of the ground (never having sufficiently dried out since the September rains), the month was generally unfavorable for seasonal farm operations. It was especially unfavorable for the seeding of fall grain over all of the eastern two-thirds of the State. The western-third fared much better. Much of the corn crop was still in the fields at the close of the month. Pasturage was good generally.

TEMPERATURE.

The monthly mean temperature for the State, 67 stations reporting, was 42.8°, or nearly 2° colder than the 36-year average, and 4° colder than November, 1924. The monthly means for the different parts of the State were remarkably uniform, ranging from about 46° in the southeastern low lands to about 40° in the northwestern plateau. The daily values alternated above and below the normal in periods of three or four days, the negative values being a little more pronounced than the positive values. The temperature range was − 2° on the 8th, to 80° on the 26th, both being local. These extremes agree very well with those of past years.

PRECIPITATION.

The average precipitation for the State, 99 stations reporting, was 2.99 inches. The departure from the 56 years' average was plus 0.64 inch, and the wettest of the last three Novembers. The southeast part of the State was much wetter than usual, while the northwest was drier than normal. There were no prolonged rainy periods. The greatest local month fall was 7.75 inches, at Marble Hill, and the least was 0.40 inch, at Conception. The greatest fall in any twenty-four hours was 3.20 inches, at Caruthersville on the 26th.

WIND.

The prevailing winds were from the south. The monthly movement, 8 stations equipped with anemometers reporting, was 6,932 miles, or about 9.7 miles an hour. This is about normal for November. There were no damaging or unusually high winds.

SUNSHINE AND CLOUDINESS.

The average number of hours of sunshine, 6 well placed stations equipped with sunshine recorders reporting, was 196. This is about 65 per cent of the possible and about 8 per cent more than normal, and about 3 per cent less than November, 1924.

MISCELLANEOUS PHENOMENA.

Fogs, dense.—1st, 2d, 11th, and 12th.
Halos, solar.—10th, 11th, 17th, 24th, 25th, and 27th.
Halos, lunar.—5th, 25th, 27th, and 30th.
Sleet.—7th, 14th, and 15th. No damage.
Thunderstorms.—Moderate, 7th, 12th, 14th, and 26th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity. 7 a. m.	Mean relative humidity. 7 p. m.	Sunshine. Total hours.	Sunshine. Percentage of possible.	Wind. Total movement, miles.	Wind. Average hourly velocity.	Wind. Max. velocity. Miles per hour.	Wind. Max. velocity. Direction.	Wind. Max. velocity. Date.
Columbia	30.12	79	66	203	67	6,184	8.6	31	nw.	12
Hannibal	30.14	76	..	...	..	6,320	8.8	30	sw.	21
Kansas City	30.11	73	59	223	74	7,701	10.7	42	ne.	7
St. Joseph	30.10	80	61	208	70	5,914	8.2	37	nw.	21
St. Louis	30.12	76	66	165	55	9,367	13.4	35	n.	15
Springfield	30.13	79	61	197	64	8,107	11.3	38	w.	12
Cairo, Ill	30.14	85	66	...	..	6,261	8.7	33	nw.	15
Keokuk, Iowa	30.13	76	68	183	61	5,599	7.8	26	nw.	21

COMPARATIVE DATA FOR NOVEMBER.

Year.	Temperature. Mean.	Temperature. Departure.	Temperature. Highest.	Temperature. Lowest.	Precipitation. Mean.	Precipitation. Departure.	Precipitation. Greatest in 24 hours.	Precipitation. Total snowfall, unmelted.	Number of days. With .01 inch or more.	Number of days. Clear.	Number of days. Partly cloudy.	Number of days. Cloudy.
1888	41.6	−2.0	87	15	3.26	+0.94	......	.....	11	....	.....	.....
1889	39.9	−3.7	73	8	3.43	+1.11	......	.....	7	....	.....	.....
1890	46.5	+2.9	80	20	2.31	−0.01	......	.....	5	....	.....	.....
1891	39.6	−4.0	82	− 2	3.60	+1.28	......	.....	5	....	.....	.....
1892	40.1	−3.5	79	9	2.60	+0.28	......	1.0	6	11	7	12
1893	40.9	−2.7	79	− 1	1.54	−0.73	4.86	0.3	4	14	9	7
1894	41.0	−2.6	80	3	1.58	−0.74	2.20	T.	4	15	9	6
1895	41.6	−2.0	82	2	3.37	+1.05	2.98	3.2	8	10	7	13
1896	42.3	−1.3	82	5	2.18	−0.14	4.00	0.2	6	11	7	12
1897	43.4	−0.2	82	− 3	2.40	+0.08	3.39	T.	6	13	8	9
1898	39.9	−3.7	79	− 8	2.28	−0.04	2.75	2.3	6	14	8	8
1899	49.5	+5.9	82	16	1.90	−0.42	2.66	0.2	7	11	9	10
1900	43.7	+0.1	84	7	2.58	+0.26	4.55	0.2	6	15	7	8
1901	43.6	0.0	84	9	1.38	−0.94	1.90	0.3	4	17	7	6
1902	50.1	+6.5	85	18	3.62	+1.20	2.14	0.4	9	8	9	13
1903	40.9	−2.7	79	2	1.24	−1.08	2.44	1.1	5	13	8	9
1904	46.3	+2.7	83	11	0.22	−2.10	0.68	T.	2	21	5	4
1905	45.8	+2.2	83	2	1.94	−0.38	2.49	T.	6	18	6	6
1906	42.5	−1.1	88	− 3	2.60	+0.28	3.60	5.0	8	12	6	12
1907	43.8	+0.2	88	5	2.52	+0.20	3.00	T.	4	19	4	7
1908	47.6	+4.0	87	9	4.14	−1.82	4.00	0.2	8	15	7	8
1909	53.6	+10.0	87	11	4 43	+2.11	6.18	0.4	8	12	7	11
1910	42.0	−1.6	83	11	0.38	−1.94	0.70	0.1	3	15	8	7
1911	39.1	−4.5	93	− 3	2.55	+0.23	2.15	1.1	7	13	6	11
1912	45.9	+2.3	88	12	1.52	−0.80	2.37	0.1	3	20	5	5
1913	51.7	+7.4	80	11	2.73	+0.35	2.50	T.	7	10	8	12
1914	48.6	+4.0	89	2	0.65	−1.84	1.90	0.1	3	19	6	5
1915	49.5	+4.9	87	12	2.76	+0.33	2.62	0.1	5	16	7	7
1916	49.6	+5.9	85	3	2.49	+0.14	2.53	0.1	4	19	4	7
1917	46.1	+1.5	80	8	1.05	−1.46	3.26	T.	3	14	5	11
1918	44.9	+0.5	85	12	3.18	+0.79	4.60	1.2	6	15	4	11
1919	42.2	−2.2	78	2	3.62	+1.40	3.36	1.0	6	15	5	10
1920	40.9	−3.5	82	6	1.21	−1.09	1.89	T.	6	12	6	12
1921	45.6	+1.2	84	10	2.82	+0.40	4.29	0.4	5	13	7	10
1922	47.8	+2.9	84	15	3.82	+1.45	3.40	T.	7	16	6	8
1923	45.1	+0.6	79	14	2.15	−0.20	2.30	3.0	6	15	6	9
1924	46.7	+2.2	88	4	1.72	−0.63	1.68	0.5	4	15	8	7
1925	42.8	−1.7	80	− 2	2.99	+0.64	3.20	2.0	6	16	6	8

Climatological Data for November, 1925.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr. Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Precipitation, in inches. Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of days. With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Northeast Plain.																				
Brunswick	Chariton	652	46	40.7	− 0.8	67	21	9	8	39	2.28	+0.31	0.95	2.5	7	18	0	12	se.	O. K. Benecke
Clifton Hill	Randolph	731	26	41.0	− 2.8	65	21	6	8	37	2.17	+0.26	1.07	4.5	8	13	11	6	......	Dr. A. J. Bradsher
Columbia	Boone	748	35	41.8	− 1.5	65	21	16	8	34	3.16	+0.85	2.05	3.6	7	14	8	8	se.	U. S. Weather Bureau
Downing	Schuyler	878	4	39.2	......	63	21	5	8	35	1.23	−0.40	0.90	7.0	6	15	6	9	s.	E. E. St. Clair
Fayette	Howard	661	45	41.0	− 1.3	66	20	12	8	43	2.36	+0.36	1.44	2.5	5	..	..	..	......	L. W. Jacobs. jr.
Fulton	Callaway	818	37	40.1	− 4.4	64	4	17	8	31	3.56	+1.31	2.12	2.0	7	19	8	3	......	Chamber of Commerce
Gorin	Scotland	700	38	....	......	..	..	....	..	..	0.94	−1.02	0.80	3.5	3	9	11	10	sw.	J. W. Pulliam
Hannibal	Marion	534	33	40.6	− 1.5	66	21	14	8	31	2.57	+0.62	1.22	5.8	5	13	11	6	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	37	41.6	− 2.5	65	21	17	8	36	2.92	+0.65	2.10	4.0	5	21	3	6	s.	Miss Emma Swift
Kirksville	Adair	969	36	38.5	− 2.0	65	21	2	8	49	1.36	−0.40	1.20	4.2	4	14	4	12	sw.	Prof. J. S. Stokes
Louisiana	Pike	469	31	41.3	− 2.9	65	21	17	8	41	4.00	+1.72	2.10	2.9	9	16	4	10	w.	J. T. Farrell
Macon	Macon	875	26	39.2	− 4.2	65	11†	6	7	35	2.18	+0.25	1.10	4.0	5	12	10	8	se.	W. C. Brown
Mexico	Audrain	800	36	40.4	− 2.6	66	21	15	8	42	3.50	+1.18	1.65	5.0	7	18	2	10	w.	Mrs. Abbie Snoddy
St. Catharine	Linn	800	14	40.9	− 2.0	64	21	5	8	31	1.24	−0.49	0.92	4.5	5	15	9	6	sw.	L. D. Baker
St. Charles	St. Charles	456	37	42.8	− 2.7	69	12	20	8	33	4.00	+1.46	2.60	0	7	14	9	7	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	43 4	− 2.0	67	21	23	8	25	4.09	+1.21	2.50	0.1	10	13	8	9	nw.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	42.6	− 3.9	68	21	21	8	30	3.78	+1.47	2.18	0.3	10	15	6	9	w.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	....	..	..	3.15	+1.07	1.20	2 6	7	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	27	40.8	− 3.0	66	21	7	8	39	2.45	+0.52	1.40	3.0	5	15	9	6	s.	Frank Hall
Unionville	Putnam	1,062	32	38.6	− 1.6	63	20	4	8	37	0.95	−0.87	0.70	3.0	3	11	7	12	n.	Geo. W. Davis
Warrenton	Warren	816	43	43.1	+ 0.2	68	21	17	8	36	3.46	+0.87	2.69	2.0	6	14	10	6	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	39.6	− 1.5	66	21	9	8	30	1.04	−0.81	0.84	4.7	5	9	14	7	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	40.9	− 2.3	69	12	4	8	49	2.56	+0.46	2.69	3.3	6	14	8	8	s.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	29	53.9	+ 4.0	78	14	26	25	32	6.65	+2.80	3.20	0	7	16	6	8	......	L. W. Dillman
Doniphan	Ripley	344	21	45.0	− 2.6	68	13	22	24	35	5.27	+2.15	1.00	0	9	9	12	9	nw.	W.W. Martin
Jackson	Cape Girardeau	428	34	42.8	− 3.9	73	13	21	1†	37	5.66	+2.53	1.65	0	10	10	6	14	n.	John G. Putz
Marble Hill	Bollinger	470	30	45.6	+ 1.2	72	12	20	17†	38	7.75	+4.58	2.10	0	6	15	5	10	s.	R.A. DeWitt
Morehouse	New Madrid	289	24	....	......	..	..	....	..	..	5.60	+1.95	1.75	0	9	17	4	9	s.	John A. Spence
Parma	New Madrid	281	4	....	......	..	..	....	..	..	4.67	......	1.30	0	6	..	..	..	......	O. O. Stires
Patton (near)	Bollinger	500	16	....	......	..	..	....	..	..	5.51	+3.28	2.00	0	7	..	..	..	......	George F. Ellis.
Poplar Bluff††	Butler	329	21	43.8	− 3.6	65	7†	21	22†	37	5.33	+2.07	1.24	0	9	15	7	8	se.	J. H. Wolpers
Cairo, Ill.	Alexander, Ill	359	50	47.2	− 0.1	70	14	26	23	28	4.59	+0.57	1.66	0	11	10	8	12	s.	U. S. Weather Bureau
Section means and	extremes	....	..	46.4	− 0.8	78	14	20	17†	38	5.67	+2.50	3.20	0	8	13	7	10	s.	
Ozark Plateau.																				
Arcadia	Iron	926	44	41.8[k]	− 2.2	70	12	18	17	45	4.11	+0.49	1.47	0	8	21	0	9	se.	Arcadia College
Birchtree	Shannon	1,000	30	45.8	+ 0.7'	66	7	21	23	37	3.98	+1.09	1.47	0	6	19	4	7	sw.	V. H. Kirkendall
Bolivar††	Polk	1,071	31	43.7	− 3.1	65	4†	18	8	32	0.95	−1 58	0.40	1.5	4	17	10	3	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	78	5	....	..	..	3.49	+0.45	2.26	T.	7	21	0	9	w.	H. E. Dean
Eldon	Miller	934	29	41.5[a]	− 3.7	65	12†	18	7†	40	4.29	+2.08	3.00	T.	6	19	5	6	sw.	E. H. Shepherd
Farmington	St. Francois	918	14	45.0	+ 0.7	71	14	22	8†	37	4.29	+0.33	2.36	T.	7	14	8	8	w.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	44.1	− 2.7	67	14	19	23	33	3.36	+1.05	2 05	0 5	5	16	6	8	nw	A. C. Leach
Goodland	Iron	1,000	31	44.4	− 0.2	70	12	17	23	46	3.72	+0.83	2.00	0	5	18	5	7	s.	F. M Adams
Greenville.	Wayne	381	3	44.4	......	70	13	20	24	40	6.17	......	1.40	0	9	20	1	9	s.	Wm. P. Owens
Hailey	Barry	1,350	0	....	......	..	..	....	..	..	2.58	......	1.80	1.0	4	14	12	4	sw.	A. W. Madison
Hollister	Taney	735	38	50.0	+ 1.8	80	26	18	1	55	3.10	+0.32	1.60	0	3	19	6	5	sw.	Mrs. W. P. Chapman
Houston	Texas	1,280	30	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	.....	Hugh Stone
Koshkonong	Oregon	958	24	47.2	− 2.2	70	12	24	23	36	4.86	+1.84	1.34	0	8	18	4	8	sw.	R. M. Hitt
Lebanon	Laclede	1,265	37	42.3	− 3.7	66	24	15	8	45	2.90	+0.36	2 15	1.0	6	17	5	8	s.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	44.0	− 3.7	65	4	20	8	29	3.56	+1.35	2.70	3.0	5	19	2	9	sw	C. S. Crow
Mountain Grove	Wright	1,463	24	43.2	− 3.4	66	14	19	8	40	2.72	+0.29	1.45	T.	6	15	8	7	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	46.7	− 0.5	70	13	19	8†	47	3.20	+0.14	2.28	0	5	17	8	5	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	44 5[b]	− 0.4	65	12†	17	8	36	2.92	+0.61	2.10	1.0	6	19[a]	5[a]	5[a]	sw	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	47.1[b]	− 0.1	69	4	19	8	37	2.61	+0.25	1.69	0.5	4	17[c]	6[c]	4[c]	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,612	19	44.0	− 2.1	67	14	17	8	40	2.71	+0.38	1.51	0.2	4	17	6	7	s.	Ira H. Hailey
Springfield	Greene	1,350	37	45.0	− 0.7	64	4	19	8	38	2.05	−0.59	1.48	0.8	6	17	7	6	se.	U. S. Weather Bureau
Section means and	extremes	....	..	44.7	− 1.6	80	26	15	8	55	3.38	+0.54	3.00	0.5	6	18	5	7	sw.	
Southwest Plain.																				
Amoret	Bates	831	18	43.8	− 1.7	66	4†	15	8	38	3.18	+1.52	2.58	T.	7	20	4	6	s.	Andrew Rood
Appleton City	St. Clair	853	31	45.2	− 0.9	68	13	18	8	36	3.04	+0.91	2.25	T.	7	17	10	3	sw.	W. G Bigelow
Clinton	Henry	765	32	44.4	− 2.9	65	13†	18	8	35	2.70	+0.82	2.03	0	5	16	8	6	sw.	A. E. Derwent, M. D
Harrisonville	Cass	904	48	41.4	− 1.0	67	13†	9	8	40	2.29	+0.34	1.37	0	5	9	0	21	nw.	John H. Patterson
Lamar	Barton	980	38	44.4	− 2.2	69	4†	20	8	39	0.67	−1.57	0.40	T.	4	18	6	6	nw.	Jesse A. Mann
Lamonte	Pettis	867	24	42.4	− 2.0	67	13†	11	8	38	2 76	+0.86	1.73	T.	6	12	13	5	se.	J. E. Wheeler
Marshall	Saline	779	36	42.0[a]	− 3.6	64	4†	17	23	37	2.02	−0.06	1.34	3.1	8	19	4	7	nw	Dr W. H. Black
Nevada	Vernon	862	32	45.6	+ 1.2	66	13†	18	8	35	3.24	+1 36	2.50	0	4	19	3	8	s.	George A. Kaupp
Warrensburg	Johnson	878	38	45.4	+ 0.5	67	4	11	8	35	2.45	+0.67	1.78	0.3	6	18	5	7	sw.	L. B. Johnston
Warsaw	Benton	687	25	47.6	+ 0.1	74	10	18	1†	48	3.30	+0.89	2.50	3.0	4	23	2	5	w.	Everett Martin
Section means and	extremes	.....	..	44.2	− 1.2	74	10	9	8	48	2.56	+0.57	2.58	0.6	6	17	6	7	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	35	40.8	− 3.1	69	21	5	8	36	1.85	−0.12	1.50	4.0	4	9	6	15	sw.	F. G. Ashbaugh
Bethany	Harrison	916	33	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	....	Owen Ross
Chillicothe	Livingston	779	16	38.8	− 3.8	65	19†	4	8	48	0.91	−1.42	0.62	2.0	4	20	7	3	se.	Wm. J. Olenhouse
Conception	Nodaway	980	36	40.0	− 1.4	65	20	5	8	38	0.40	−0.96	0.40	4.0	1	15	6	9	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	41.1[c]	......	66	22	− 2	8	45	0.69	−0.78	0.50	2.5	5	21	0	9	s.	Fred L. Stiff
Grant City	Worth	1,134	21	40.6	− 1.8	65	12†	− 1	8	39	0.49	−1.12	0.49	6.5	1	17	6	7	sw.	B. F. Locke
Kansas City	Jackson	963	36	44.4	+ 0.7	68	21	15	8	32	1.47	−0.38	1.18	3.0	6	17	6	7	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	38.5	− 3.9	63	11†	3	8	43	1.05	−0.79	0.45	3.0	4	17	3	10	sw.	Linn Terry
King City	Gentry	1095	0	....	......	..	..	....	..	..	0.91	......	0.75	2.0	3	..	..	..	...	D. B. Oliver
Lexington	Lafayette	688	40	43.0	− 1.0	67	21	10	8	35	2.10	+0.25	1.08	2.0	5	17	6	7	s.	Edwin G Loomis
Liberty	Clay	859	35	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..		W. F. Aull
Maryville	Nodaway	1,169	35	40.0	+ 1.0	67	20	1	8	37	0.70	−0.95	0.50	5.0	4	20	3	7	n.	J. R. Brink
Oregon	Holt	1,048	69	39.8	− 0.5	63	4	4	8	33	1.10	−0.59	1.00	6.5	2	19	2	9	nw.	Tom Curry
St. Joseph	Buchanan	967	17	41.4	− 2.7	65	20	10	8	32	1.07	−0.42	0.95	4.7	3	20	5	5	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	22	39.0	− 1.6	66	4	2	8	40	0 42	−1.03	0.42	4.5	1	18	2	10	nw.	Albert Volker
Trenton	Grundy	822	29	39.3	− 3.1	61	4	9	8	28	0.87	−0.93	0.68	3.0	4	19	4	7	s.	W. H. Estes
Section means and	extremes	.....	..	40.5	− 1.8	69	21	− 2	8	48	1 00	−0.71	1.50	3.8	3	18	4	8	sw.	
State means and	extremes	.....	..	42.8	− 1.7	80	26	− 2	8	55	2.99	+0.64	3.20	2.0	6	16	6	8	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b], represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for Noqember, 1925.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri							1.50	.31							.42												.30					2.53
Brunswick‖	Grand				.06			.95	.24					.23		.42			.10									.28					2.28
Clifton Hill	Chariton			.03	.01			1.07					.14		.45				.23								.20	.04					2.17
Columbia***	Missouri				T.		.74	1.31					.13		.59	.01			.01								.37						3.16
Downing	Mississippi			.02	.15			.90							.02	.12											.02						1.23
Fayette‖	Missouri			.13				1.44								.20			.25									.34					2.36
Fulton‖	do					.11		2.12		.41			.01		.14	.24												.53					3.56
Gorin	Mississippi				.07			.80							.07												T.						0.94
Hannibal***	do				T.		.15	1.07							.96	T.	T.		.03								.36			T.			2.57
Hermann‖	Missouri					.10		1.93	.67				.01	.15		.30			.03									.40					3.59
Jefferson City‖	do							2.10	.20						.02	.40												.20					2.92
Kirksville	Mississippi				.02				1.20						T.	.12											.02						1.36
Louisiana	do			T	.30			2.10	.04				.02	.01	.20	.15											1.10	.08					4.00
Macon‖	Chariton			.10			1.10	.32								.45												.21					2.18
Mexico‖	Mississippi				.07	.05		1.65	.22					.11		.85												.55					3.50
Milan‖	Grand				.10			.40	.55							.25							T.				.10						1.40
Pacific‖	Meramec					T.		2.15	.32				.05	.19	.03	.12			.05									.40					3.31
St. Catharine	Grand			.02	.20			.92	T.				T.		T.	.07											.03						1.24
St. Charles	Missouri				.26			2.60					.10	.10	.05	.64											.25						4.00
St Louis (1)***	Mississippi				.12	T.	.28	2.22				.13	.10		.43	.11	T.		.04								.65	.01					4.09
St. Louis (2)	do				.08	.01	.35	2.18				.11	.12		.38	.14			.06								.35						3.78
Shelbina‖	do				.05			.84	.55							1.20	.10		.07									.34					3.15
Steffenville	do				.10			1.40	.20							.15											.60						2.45
Union‖	Meramec					.03		2.15	.20				.09	.11		.68			.05									.42					3.73
Unionville	Chariton			T.	.15			.70							T.	.10																	0.95
Valley Park‖	Meramec					.70		1.92	.56				.09	.05		.54	T.		.06								T.	.41					4.33
Warrenton	Mississippi				.14			2.69	T.					.01	T.	.34											.18	.10					3.46
Keokuk, Ia.***	do			T.	.04	T.	.01	.83					T.		.14	T.			T.								.02			T.			1.04
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi					1.20	.12	1.08	.51				.75			.28				.56							.35	1.10					5.95
Caruthersville	do				.70	1.10	.50	.60				.25								.30							3.20						6.65
Doniphan	Black				.39	.75	.40	.80				.20	.40			.38			1.00								.95						5.27
Jackson	Mississippi				.07	.99	.02	1 65					.80			.42			.60	.05							.81	.25					5.66
Marble Hill	Mississippi				.40	1.95		1.60								2.10			.65								1.05						7.75
Morehouse	do				T	1.25		1.75				.01	.16			.30			.17	.08							.96	.92					5.60
New Madrid‖	do					.90	.21	.61	.50				.25	.02		.10				.10							.30	1.49					4.48
Parma	St. Francis					1.30	1.18					.30							.33								.71	.85					4.67
Patton (near)	Mississippi				50	1.40		2.00					.50						.34								.56	.21					5.51
Poplar Bluff	Black			.10	1.24	.03	1.03	.85				.52			.27											.35	.94						5.33
Cairo, Ill.***	Mississippi	T.			.11	.81	.52	1.14				.03	.24		T.	.17			.15	.03							1.33	.06					4 59
Ozark Plateau.																																	
Arcadia‖	St. Francis				T.	.64	1.47	1.11					.05			.30			.17	.08							T	.29					4.11
Birchtree	Black				.44	.67		1.47								.32			.38								.70						3.98
Bolivar	Osage				.10	.40		.23								.22																	0.95
Dean	Neosho			.01	.03	.12	.17	2.26								.36											.54						3.49
Eldon‖	Missouri			.02	.22		3.00	.43							.52													.10					4.29
Farmington	St. Francis				.28	.21		2.36								.84			.30								.28	.02					4.29
Fredericktown‖	do	.11			.36			.42		.65			.40				1.05					.51			.34			.45					4.29
Galena‖	White						1.97									.25										.26	.62						3.10
Gano	Meramec				.08	T.	T.	2.05					.13			.60			.13								.37						3.36
Goodland	Black				.45			2.00								.71			.10								.46						3.72
Greenville	St. Francis				.22	.91		1.40				.02	.93			.69			.77	.04							1.19						6 17
Hailey	White				.10		1.80							.10													.58						2.58
Hollister	do						1.60							.50													1.00						3.10
Houston	Gasconade																																....
Jerome‖	do																																....
Koshkonong	Black				.73	.62	.37	1.34				.04	.12			.37			1.27														4.86
Lebanon‖	Osage					T.		2.15							.25	.10	.05										.22	.13					2.90
Lockwood	do						.08	2.70							.20	.42											.16						3.56
Mountain Grove‖	White				05	.08		1.45					T.			.35	T.										.51	.28					2.72
Neosho	Neosho			T.	.06		.06	2.28							T.	.59			T.								.21	T.					3.20
Rolla	Meramec				.07		2.10	.07							.44											.08	.16			T.			2.92
Seligman	Neosho						.45	1.24								.05											.87						2.61
Seymour (near)	White			T.	.09	T.	T.	1.51					T.		T.	.20			T.								.91						2.71
Springfield***	do			T.	.01		.41	1.04							.15	.05	T.										.36						2.05
Steelville‖	Meramec							2.20	.12				.06			.60	T.			.09							.04	.32					3.43
Tuscumbia‖	Osage				.02	.03		2.61	.26				T.			.72	.02										T.	.05					3 71
Willow Sprgs.‖ (near)	White				.09	.79		1.20	19		T.			T.		.59												.85					3.71
Southwest Plain.																																	
Amoret	Osage			.22	.06			2.58							.16	.07			.01								.08						3.18
Appleton City	do			.01	.01		.18	2.25							.13	.23	T.										.23						3.04
Clinton	do			.10	.05			2.03							.20												.32						2.70
Harrisonville‖	do				.35			1.37	24							.19												.14					2.29
Joplin*	Neosho			.03	T.		.95	1.48							.46	.05											.21						3.18
Lamar‖	do				.15				.05						T.	.40												.07					0.67
Lamonte	Missouri			.08			25	1.73							.20	.20	T.										.30						2.76
Marshall	do			.11	T.			1.34	.05						.15	.15			.05							.15	.02						2.02
Nevada	Osage						.50	2.50							.16	.08											T.						3.24
Osceola‖	do							3.20	.10							.35	.32											.26					4.23
Warrensburg	Missouri			.07	T.		T.	1.78	.04						.16	.10											.30						2.45
Warsaw	Osage							2.50							.12	.53			T.								.15						3.30
Waverly‖	Missouri				.18	.05		.97	.40							.12	T.		T.									.36					2.08
Northwest Plateau.																																	
Albany‖	Grand	.60					.40									T.	T.																1.00
Avalon	do								1.50						.10						.15						.10						1.85
Bethany	do																																....
Chillicothe‖	do				05	T.		.62	.20							T.												.04		T.			0.91
Conception	Missouri			T.	T.			40								T.																	0.40
Edgerton	do			.01	T.			.50							.07	.01											.10						0.69
Gallatin‖	Grand				.14			.45	.16							T													T				0.75
Grant City	do								.49						T.	T.																	0.49
Kansas City***	Missouri			.03	.01		.21	.97							.20	T			T.								.05						1.47
Kidder‖	Grand				.20			.45	.30																			.10					1.05
King City	Missouri			.06				.75							.10																		0.91
Lexington‖	do				.20			1.08	.45							.32			.05														2.10
Liberty‖	do																																....
Maryville	do			04	.13			.50							.03																		0.70
Oregon	do			T.				1.00							.10	T.																	1.10
St. Joseph***	do			04	T			.95							.08	T.																	1.07
Tarkio	do							.42																									0.42
Trenton	Grand			.04	T.			.68						.07	.08												T.		T.				0.87

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for November, 1925.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	57	58	59	64	54	56	45	35	57	60	64	61	63	45	39	43	61	62	50	66	67	48	41	57	52	40	31	38	52	53	..	52.6
	Minimum	28	24	27	41	38	30	39	9	18	30	32	39	31	39	31	26	27	32	32	28	31	29	19	24	28	36	23	21	24	29	..	28.8
Columbia	Maximum	52	51	62	63	56	56	46	36	60	62	61	61	63	48	34	41	59	61	49	61	65	38	37	55	50	41	35	37	48	54	..	51.4
	Minimum	31	26	39	54	36	31	23	16	29	40	39	45	39	32	30	26	31	41	29	27	38	26	23	28	38	35	25	24	35	31	..	32.2
Fayette	Maximum	55	58	62	63	55	57	45	39	60	63	63	62	65	46	38	43	61	63	51	66	64	45	42	58	53	43	40	38	52	57	..	53.6
	Minimum	20	22	22	22	37	26	37	12	22	32	28	38	36	39	30	25	22	35	32	23	33	23	32	35	42	38	26	18	24	23	..	28.5
Hannibal	Maximum	50	53	59	63	62	56	46	33	55	60	60	58	62	44	34	37	52	59	45	60	66	38	36	50	49	39	36	31	40	51	..	49.5
	Minimum	27	27	34	53	37	31	23	14	29	43	36	46	41	34	30	28	25	43	31	29	38	25	25	28	36	33	24	21	31	29	..	31.7
Jefferson City §§	Maximum	48	52	62	55	52	56	45	36	42	62	62	63	63	48	45	58	59	59	34	49	65	50	40	61	55	41	36	40	47	33	..	50.6
	Minimum	22	25	35	48	38	33	43	17	24	35	40	40	45	41	30	25	35	40	36	27	32	42	21	25	35	38	25	24	30	28	..	32.6
Kirksville	Maximum	53	53	56	60	60	56	48	31	52	58	51	43	62	55	41	40	55	60	51	62	65	49	36	50	49	47	35	30	45	50	..	50.1
	Minimum	25	27	32	42	24	29	20	2	3	39	33	34	36	33	26	28	25	44	32	28	38	25	21	22	23	30	20	14	26	25	..	26.9
Louisiana	Maximum	53	55	58	60	60	60	50	40	57	63	64	62	62	55	42	36	55	57	50	59	65	56	43	47	50	42	39	35	42	54	..	52.4
	Minimum	22	26	34	36	26	27	32	17	26	22	26	44	45	37	30	32	24	42	38	25	36	32	23	23	36	34	25	18	29	40	..	30.2
Macon §§	Maximum	57	60	61	53	56	52	34	39	55	60	65	56	63	41	35	42	55	60	47	62	65	37	37	53	49	34	35	35	44	51	..	49.8
	Minimum	28	31	36	35	31	38	6	24	27	32	37	38	35	38	28	25	26	34	31	27	31	25	19	24	29	33	20	18	20	30	..	28.5
Mexico §§	Maximum	55	53	64	62	55	58	43	37	58	63	65	62	63	44	37	44	56	59	51	61	66	40	38	53	50	38	37	34	45	55	..	51.5
	Minimum	24	24	27	40	38	29	39	15	16	32	38	45	39	39	26	25	26	34	34	21	32	29	22	25	29	29	23	20	24	31	..	29.2
St. Catharine	Maximum	52	54	57	61	61	59	51	29	49	55	58	57	60	56	37	42	55	60	56	60	64	53	38	54	49	46	38	34	49	53	..	51.6
	Minimum	28	28	37	50	35	29	24	5	23	37	32	38	36	34	30	28	27	46	31	29	37	26	26	30	31	34	21	17	29	28	..	30.2
St. Louis(1)	Maximum	47	55	61	59	58	56	50	36	57	60	58	65	63	56	36	40	52	52	53	54	67	44	36	50	56	43	39	36	41	58	..	51.3
	Minimum	32	34	42	47	46	42	29	23	29	39	44	49	46	36	32	32	31	40	37	34	42	27	25	28	41	37	30	26	32	33	..	35.5
Unionville	Maximum	54	57	56	60	60	58	48	30	50	55	60	56	60	56	36	44	54	58	54	63	60	60	35	57	50	40	37	32	45	45	..	50.3
	Minimum	20	26	32	46	30	28	20	4	16	33	32	35	35	30	28	30	24	40	30	28	36	23	18	20	28	30	18	13	26	25	..	26.8
Warrenton	Maximum	52	54	62	60	61	57	52	45	61	63	59	64	62	58	47	37	53	56	55	60	68	57	38	52	53	46	40	37	46	56	..	53.7
	Minimum	26	26	33	49	41	33	43	17	25	36	37	46	47	43	29	27	25	42	35	28	39	29	21	24	42	34	25	19	26	29	..	32.5
Southeast Lowlands.																																	
Caruthersville	Maximum	70	69	72	71	73	70	65	59	58	64	68	69	73	78	64	66	68	65	67	62	61	67	67	55	54	60	69	67	68	66	..	66.2
	Minimum	43	39	44	41	42	39	33	34	31	34	42	44	59	62	48	45	51	49	49	34	36	39	43	31	26	37	41	45	46	41	..	41.6
Doniphan	Maximum	50	57	57	59	59	64	66	60	55	60	53	64	68	65	56	52	56	48	58	57	62	53	41	40	64	57	49	50	48	60	..	56.3
	Minimum	29	40	33	43	53	42	46	30	24	35	30	49	42	38	35	25	23	41	42	30	27	34	24	22	30	32	28	29	30	28	..	33.8
Jackson	Maximum	39	53	59	54	54	50	62	62	49	56	51	66	73	66	60	41	49	45	53	51	59	50	35	48	62	55	47	39	40	54	..	52.7
	Minimum	21	38	37	46	49	39	48	25	22	28	30	49	44	34	33	28	21	37	35	26	28	30	24	24	39	40	34	23	27	32	..	33.0
Poplar Bluff	Maximum	45	48	56	58	58	58	65	61	49	52	52	65	65	65	65	41	52	51	50	50	56	55	37	54	55	56	54	44	44	53	..	53.8
	Minimum	40	35	43	54	44	49	30	24	27	30	43	41	35	37	28	23	39	34	28	27	31	21	21	37	44	38	26	27	28	30	..	33 8
Cairo, Ill.	Maximum	43	56	61	60	54	54	67	48	53	61	58	69	66	70	63	46	52	57	57	52	62	49	37	55	64	60	45	42	46	58	..	55.5
	Minimum	32	42	47	49	51	46	48	31	31	37	44	52	46	45	35	35	32	42	38	34	37	32	26	28	49	45	34	29	32	41	..	39.0
Ozark Plateau.																																	
Arcadia §§	Maximum	50	54	62	57	61	59	66	43	60	61	55	70	68	68	34	48	51	46	57	59	67	44	42	56	68	52	46	45	47	61	..	55.2
	Minimum	19	26	28	30	50	34	34	23	21	25	30	34	43	33	32	26	18	21	35	23	23	30	23	21	23	37	34	21	21	30	..	28.3
Birchtree	Maximum	55	58	57	59	63	54	66	57	61	61	53	69	65	66	60	50	45	53	53	..	..	..	..	..	..	..	..	..	..	..	..	[b]58.2
	Minimum	28	30	38	48	50	40	46	24	24	33	34	39	40	44	31	26	25	35	32	25	31	30	21	23	42	41	33	24	32	34	..	33.4
Eldon §§	Maximum	57	63	63	57	54	47	47	62	63	62	63	65	50	39	44	60	59	54	57	61	39	42	65	59	50	40	43	51	58	..	..	[a]54.8
	Minimum	26	26	26	40	32	36	18	18	28	34	34	34	36	30	28	26	30	36	30	30	29	19	19	25	40	26	24	27	30	23	..	28.7
Farmington	Maximum	50	58	65	56	58	58	68	54	60	62	59	69	65	71	59	45	55	47	55	58	69	56	40	59	68	54	56	44	48	61	..	57.6
	Minimum	24	31	33	45	31	34	35	22	23	33	37	47	44	37	31	29	22	40	37	40	37	30	22	24	37	39	31	22	27	31	..	32.5
Hollister	Maximum	56	59	56	58	62	72	76	70	76	78	78	74	72	74	73	74	70	76	78	76	68	64	75	78	78	80	75	78	79	80	..	72.1
	Minimum	18	22	38	40	41	36	38	23	26	28	39	32	28	30	26	28	22	24	30	29	24	22	20	23	24	26	20	25	28	29	..	28.0
Koshkonong	Maximum	50	56	57	58	61	52	65	59	60	60	54	70	67	67	63	53	60	50	58	57	66	53	43	63	64	60	55	48	54	61	..	58.1
	Minimum	29	36	31	50	49	42	48	27	30	34	39	46	44	45	34	30	29	43	38	31	35	31	24	27	45	46	34	28	31	34	..	36.3
Lebanon §§	Maximum	52	58	61	62	61	60	61	42	61	61	63	65	65	58	39	46	59	56	55	64	64	39	41	66	62	54	41	41	50	59	..	55.5
	Minimum	20	24	29	34	49	32	37	15	16	30	36	40	37	37	29	20	23	35	31	24	30	27	16	21	31	41	25	24	25	36	..	29.1
Mountain Grove §§	Maximum	48	58	52	59	59	65	65	44	59	59	56	65	65	66	48	47	56	47	53	63	63	42	41	62	61	54	47	45	47	59	..	55.2
	Minimum	21	27	30	43	43	38	40	19	20	34	35	39	37	40	30	28	30	32	34	26	30	28	20	22	30	45	30	26	26	33	..	31.2
Neosho	Maximum	68	61	67	68	66	55	63	48	57	65	68	68	70	66	48	55	65	57	57	64	67	61	57	68	65	57	54	54	58	60	..	61.2
	Minimum	21	25	35	57	38	35	35	19	26	30	34	43	32	31	32	24	28	50	26	24	31	29	19	34	36	44	32	26	36	31	..	32.2
Rolla	Maximum	49	55	61	63	61	56	57	47	62	62	60	65	64	53	47	43	57	55	54	62	65	59	41	63	62	55	43	46	46	59	..	55.7
	Minimum	27	24	35	50	39	35	44	17	28	39	38	44	38	40	30	27	26	44	33	26	40	29	20	27	43	40	26	23	35	32	..	33.3
Springfield	Maximum	51	56	60	64	59	51	62	40	59	62	58	64	64	63	38	47	60	52	53	60	62	37	44	64	58	53	41	44	48	58	..	54.4
	Minimum	32	35	41	50	40	40	24	19	32	40	40	46	39	32	30	31	35	44	36	35	38	28	25	33	49	39	29	29	35	38	..	35.5
Southwest Plain.																																	
Amoret	Maximum	51	58	56	66	66	57	49	40	58	60	62	64	66	64	45	50	62	62	57	66	66	58	50	62	57	50	46	47	56	53	..	56.8
	Minimum	22	25	34	53	30	32	24	15	24	32	28	39	32	37	32	25	28	49	32	43	29	26	20	24	33	38	26	24	29	38	..	30.8
Appleton City	Maximum	55	58	61	66	62	66	48	40	60	61	63	65	68	57	45	50	62	64	58	66	65	53	49	66	57	46	42	47	53	59	..	57.1
	Minimum	28	29	38	54	34	36	27	18	29	35	36	40	36	36	32	29	31	47	34	30	38	28	24	30	38	41	27	27	39	32	..	33.4
Clinton	Maximum	55	55	61	67	54	52	49	40	58	63	62	63	65	60	45	47	61	62	63	62	65	55	46	65	60	51	48	45	52	58	..	56.3
	Minimum	25	30	30	46	30	30	25	18	28	35	35	35	37	35	30	37	40	38	32	29	40	27	25	30	37	40	30	27	40	31	..	32.4
Harrisonville §§	Maximum	55	49	57	65	56	54	43	40	55	60	61	64	67	46	44	49	62	63	59	67	67	41	47	61	51	43	40	42	54	58	..	54.0
	Minimum	22	32	32	38	28	30	38	9	15	30	34	35	36	36	31	25	25	33	30	31	32	24	22	26	30	35	23	23	24	31	..	28.7
Lamar §§	Maximum	56	62	65	69	57	56	55	45	62	63	65	65	68	51	45	52	63	63	58	65	64	41	54	69	56	49	40	50	54	59	..	57.4
	Minimum	21	26	28	43	36	35	39	20	21	33	37	40	36	36	32	28	29	36	32	28	29	28	25	30	35	36	30	28	29	34	..	31.3
Lamonte	Maximum	55	60	64	65	58	57	46	43	61	63	66	64	67	48	39	47	65	54	55	67	57	44	47	65	53	41	38	43	54	56	..	54.7
	Minimum	23	26	35	52	34	30	22	11	27	37	34	40	33	31	29	25	28	42	33	29	37	21	20	28	34	36	24	23	32	31	..	30.2
Marshall	Maximum	58	48	61	64	64	59	52	37	57	62	62	62	64	58	50	43	61	52	52	62	62	50	42	52	46	39	38	52	..	53	..	[a]53.9
	Minimum	25	25	33	50	36	30	25	21	25	35	33	39	35	36	29	23	24	30	30	26	36	28	17	36	37	23	23	31	..	28	..	[a]30.0
Nevada	Maximum	53	59	64	68	64	56	47	42	60	62	63	61	66	56	46	49	63	62	56	65	65	52	51	66	56	47	43	49	56	58	..	56.9
	Minimum	26	30	39	54	32	37	27	18	32	37	40	42	38	35	31	28	35	50	34	30	40	27	26	35	36	40	28	27	39	32	..	34.2
Warrensburg	Maximum	58	60	63	67	65	56	55	40	59	60	64	65	65	65	43	48	62	63	59	65	66	58	48	63	60	48	41	45	54	56	..	57.4
	Minimum	28	31	37	54	32	38	27	11	30	39	37	40	35	35	31	27	33	47	32	30	39	27	28	31	38	39	25	25	38	34	..	33.3
Warsaw	Maximum	55	61	66	64	66	58	50	55	67	74	67	70	72	64	56	62	67	70	68	68	72	64	60	72	63	56	54	68	64	62	..	63.8
	Minimum	18	23	36	34	36	32	28	18	25	35	34	45	49	36	29	25	25	49	47	25	40	27	22	24	37	32	27	28	32	27	..	31.5
Northwest Plateau.																																	
Chillicothe §§	Maximum	55	57	54	62	55	55	42	34	54	58	64	58	64	49	48	44	61	61	65	63	65	36	41	52	51	39	34	37	51	48	..	51.9
	Minimum	21	23	23	35	33	30	35	4	6	21	30	34	34	34	26	26	26	29	32	32	31	26	19	20	24	29	20	19	22	26	..	25.7
Grant City	Maximum	54	56	52	60	51	59	53	32	40	58	62	65	65	55	42	46	60	64	65	65	60	38	60	57	54	55	52	44	50	54	..	54.3
	Minimum	26	28	29	29	27	30	19	− 1	15	28	30	34	35	32	28	25	28	27	26	28	28	23	32	29	29	33	30	17	31	29	..	26.8
Kansas City	Maximum	56	56	57	64	53	55	43	39	57	59	63	61	66	50	43	47	61	61	59	65	68	38	48	64	51	43	36	42	54	54	..	53.8
	Minimum	33	38	40	41	33	42	21	15	32	42	43	42	38	34	32	30	38	47	37	41	36	28	27	38	37	36	25	26	41	38	..	35.0
Kidder §§	Maximum	56	57	55	62	52	58	41	38	53	55	63	58	62	56	40	42	59	60	60	63	50	35	41	57	47	40	35	37	51	49	..	51.1
	Minimum	19	26	30	37	29	29	32	3	10	21	33	33	35	36	29	23	24	30	30	33	32	25	13	19	30	30	19	19	22	26	..	25.9
Lexington §§	Maximum	56	55	56	65	64	55	51	45	55	59	62	63	66	56	40	45	61	61	54	64	67	47	43	58	56	45	41	38	52	53	..	54.4
	Minimum	24	24	37	48	31	32	43	10	26	35	32	41	38	41	31	26	30	45	32	31	40	27	21	26	34	38	24	24	24	29	..	31.5
Maryville	Maximum	56	55	48	62	54	60	50	34	52	55	65	60	65	47	38	47	61	58	56	67	57	41	45	60	51	43	37	34	52	45	..	51.8
	Minimum	19	29	35	47	28	32	19	1	19	35	33	38	34	33	29	23	31	39	29	30	34	22	20	28	29	30	19	18	30	29	..	28.1
Oregon	Maximum	48	52	50	63	51	58	47	37	44	50	59	58	57	48	40	42	59	56	56	62	57	35	44	60	54	44	37	37	48	46	..	50.0
	Minimum	27	31	36	45	28	34	18	4	22	37	34	36	36	32	31	22	32	40	31	34	33	24	22	31	30	35	18	21	32	29	..	29.5
St. Joseph	Maximum	54	56	55	63	54	57	47	35	51	55	63	60	60	44	40	45	61	58	58	65	60	36	46	62	50	44	34	38	53	49	..	51.8
	Minimum	29	29	38	39	31	36	16	10	24	41	31	39	39	33	31	26	38	44	34	34	36	25	25	32	32	32	21	24	32	30	..	31.0
Trenton	Maximum	47	49	52	61	58	53	48	30	44	52	55	55	57	50	40	43	54	57	47	58	57	43	36	48	47	44	39	33	45	46	..	48.3
	Minimum	28	27	36	50	33	33	20	9	21	36	33	38	40	34	30	29	35	36	34	31	37	25	22	26	31	35	21	20	30	30	..	30.3

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 12-18-25-875.

UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.
GEORGE REEDER, Meteorologist.

VOL. XXIX. COLUMBIA, MO., YEAR, 1925. No. 13.

GENERAL SUMMARY.

For the State, as a whole, the weather during the year 1925, in Missouri, was characterized by somewhat more than normal warmth. There were, however, some marked contrasts in some sections, and a few abnormally cold spells. During most of the time from January up to and including September temperatures ran above normal, the accumulated excess amounting to around 700 degrees. At the end of the year it was still more than 300 degrees, the reduction of some 400 degrees occurring during the last three months of the year, and largely during October alone.

Although April and June were somewhat more than normally wet, there was a general deficiency in precipitation for the first eight months. Drought effects were quite marked during a part of July, most of August, and the first ten days of September in most sections south of the Missouri River. This deficiency, though, was more than made up the last quarter of the year from about the middle of September.

The more outstanding features of the year, probably were the favorable farm conditions of March, April, and June; rather a "freaky" and unfavorable May; unstable July; a warm and wet September, and a cold and wet October, with an early snowstorm and zero temperature as chief features.

The weather's most marked adverse affects on agricultural interests probably were the record breaking late May frost; the mid-summer local drought, terminating with hot winds during the first week or ten days of September; and the abnormally wet autumn. After the middle of September the continued wetness delayed the gathering of root and fruit crops, and corn and forage crops; and it not only delayed seeding but cut down the acreage of winter wheat.

TEMPERATURE.

The annual mean temperature was 55.5 degrees, or 0.7 degree above normal. The highest temperature was 110 degrees, at Jackson, on September 6th. This is the State record for September. The lowest was −15 degrees, at Goodland, on January 28th. The next lowest was −10 degrees, at Unionville, December 27th. During the summer there were only seven days with maximum of 100 degrees or higher, and 60 days with 90 degrees or higher. In the winter there were 116 days with minimum of 32 degrees or lower, but only two days with zero or lower.

PRECIPITATION.

The annual precipitation was 39.78 inches, or 0.91 inch more than normal. The heaviest rains fell in June and September. The totals of September and October together amounted to 11.31 inches, which was more than the combined totals of the first five months of the year. The seasonal snowfall was 16.4 inches. It was somewhat heavier over the southwestern and northeast plains than in either the Ozark or northwest sections. The storm of December 4th probably interfered with general traffic more than any other snowstorm, because of the attending driving, drifting winds.

THE WEATHER BY MONTHS.

JANUARY.—The month was drier and a bit brighter than usual, but temperatures differed but little from the normal. The unusual feature was ice covered ground. Nearly three-fourths of the State north of the Ozarks was ice-covered most of the month, most of it being carried over from December. The snowfall was about 5 inches; but there were no deep or drifting snows. The highest temperature was 65° and the lowest −15°. Considerable winter wheat was smothered. There was little or no activity in highway building or outdoor work of any kind.

FEBRUARY.—There was very little real winter weather, most of the month being mild. Many of the days were balmy and spring-like, with afternoon temperatures in the 70's. There was no zero cold, 1° above being the minimum. The precipitation was less than normal; and the snows were light and less frequent than usual for February. Wheat was dormant but the root system was good. Fruit buds were satisfactory. Main highways and country roads generally in bad condition. There was little or no plowing.

MARCH.—Rather dry, mild temperatures and much bright weather prevailed. The only adverse feature, fortunately local, was a severe tornado in the southeastern part of the State on the 18th. Weather generally favorable for winter wheat, spring grains, and orchards. It also favored live stock, farm and highway work, and outdoor occupations generally. The commercial fruit orchards were in satisfactory condition.

APRIL.—A mild favorable month. Much of the month had warmth approximating the usual for the first of June. The usual spring farm work, and grains made excellent progress. Pastures improved rapidly. A frost on the 30th nipped and set back the more tender vegetation which was unusually well advanced for the season. The precipitation was more than the normal, but, as the preceding month of March was rather dry, the soil readily took care of the April moisture.

MAY.—The month averaged cold. It was decidedly a "freaky" month, one in which winter, spring, and summer all played a part. Temperature changes were sudden and marked; frost values prevailed on the 2d and 19th. From the 21st to 23d excessive heat obtained with some record breaking temperatures for the season; this was quickly followed by a cool wave that overspread the entire State by the 25th, attended by record breaking minimum values and heavy to killing frosts in all sections, save the extreme southeast. It was the latest killing frost of record. The main crops were not seriously damaged; and the less hardy crops made marked recovery. Peaches were mainly killed.

JUNE.—Mainly a warm month, although without any extremely hot days. With ample warmth, sunshine and moisture, farm interests were favorably affected. Thunderstorms with attending squalls, and local hailstorms were probably more frequent than usual, but wheat and hay harvest and other work was carried on without serious hindrance. Some of the smaller rivers were out of banks, destroying some wheat and corn.

JULY.—Sunshiny and drier than normal. Something of a of a temperamental month. The first half was unusually hot, while the latter half was pleasant weather, some of it being almost autumn like. The rainfall was not adequate but the cool weather of the last half slowed down evaporation and otherwise mitigated drought effects. Corn ranged from fair to good but mostly good. It was well advanced in the pollination stage.

AUGUST.—Mainly cool the first half and hot the latter half, reversing the conditions prevalent in the preceding month of July. In the northern half it was wetter than usual with some large local amounts. In the southern half it was hot and dry. All late planted crops were badly damaged and many springs and streams dried up, necessitating early shipments of live stock; it also was too dry for plowing for fall grains.

(Continued on Page 54.)

Climatological data for Year, 1925.

Stations	Counties	Elevation, feet	Temperature (Degrees Fahrenheit)						Precipitation (inches)							Number of days				Prevailing direction of wind.
			Length of record, yrs.	Annual mean	Highest	Date	Lowest	Date	Length of record, yrs.	Total	Greatest monthly	Month	Least monthly	Month	Total snowfall	With precip. .01 inch or more	Clear	Partly cloudy	Cloudy	
Northeast Plain.																				
Brunswick	Chariton	652	47	54.1	103	Sept. 4	− 3	Dec. 27†	47	40.64	9.75	June	0.59	Jan.	42.0	99	215	0	150	ne.
Clifton Hill	Randolph	731	27	53.7	103	" 6	− 6	" 27	17	37.14	8.54	Aug.	0.52	"	35.9	96	138	124	103	......
Columbia	Boone	748	36	54.8	101	" 6	− 3	" 27	36	41.54	7.07	June	0.82	"	20.5	110	142	113	110	s.
Downing	Schuyler	878	5	52.4	102	" 3	− 8	" 27	17	40.79	10.15	Sept.	0.29	"	27.4	98	199	52	114	s.
Fayette	Howard	661	46	53.5	102	" 4	− 7	Jan. 13	43	38.63	7.61	June	0.15	"	14.9	72	....	....	....	......
Gorin	Scotland	700	..	....	....	....	....	....	39	34.55	7.57	Sept.	0.27	"	22.1	82	136	97	132	sw.
Hannibal	Marion	534	34	53.8	100	Sept. 4	− 5	Dec. 27	42	34.54	6.18	Sept.	0.39	"	24.4	107	152	105	108	sw.
Jefferson City	Cole	557	38	55.3	106	" 6	− 8	Jan. 28	42	34.45	5.81	June	0.86	Feb.	24.1	88	222	66	77	s.
Kirksville	Adair	969	37	51.8	100	" 5	− 9	Dec. 27	44	39.42	11.41	"	0.19	Jan.	23.5	76	176^{a}	44^{a}	144^{a}	sw.
Louisiana	Pike	469	32	55.0	104	" 6	− 6	Jan. 13†	45	40.22	5.91	Oct.	0.92	"	21.4	97	245^{a}	54^{a}	65^{a}	w.
Macon	Macon	875	27	52.9	102	" 4†	− 7	Dec. 27	33	40.82	8.05	June	0.38	"	19.5	90	161	96	88	sw.
Mexico	Audrain	800	37	54.3	105	" 6	− 4	" 27†	48	38.22	6.86	Oct.	0.88	"	24.0	94	243	5	117	w.
St. Catharine	Linn	800	15	53.0	100	" 6	− 5	" 27	15	35.28	6.90	June	0.23	"	31.2	110	156	132	77	s.
St. Charles	St. Charles	456	38	56.5	105	" 6	− 2	" 27	48	34.24	7.49	"	0.86	"	9.7	65	139	101	125	s.
St. Louis (1)	St. Louis City	717	52	57.2	103	" 5	− 1	" 27	89	32.23	4.84	"	0.53	"	8.7	95	144	122	99	sw.
St. Louis (2)	......do	578	14	56.8	102	" 5	− 1	" 27	14	34.19	5.45	"	0.60	"	7.4	101	168	94	103	se.
Steffenville	Lewis	650	28	53.7	107	" 4	− 8	" 27	33	41.96	7.82	Aug.	0.32	"	33.3	87	156^{c}	126^{c}	80^{c}	n.
Unionville	Putnam	1,062	33	51.8	102	" 4†	−10	" 27	33	39.40	9.05	Sept.	0.19	"	24.5	76	153	91	121	n.
Warrenton	Warren	816	44	56.4	103	" 5	− 3	" 27	36	34.19	7.10	June	0.52	"	14.0	82	169	108	88	sw.
Keokuk, Iowa	Lee, Iowa	574	54	52.5	100	July 2†	− 8	" 27	54	33.57	6.99	Sept.	0.35	"	35.0	97	117	136	112	s.
Section means and	extremes	....	..	54.2	107	Sept. 4	−10	Dec. 27	..	37.65	11.41	June	0.15	Jan.	23.2	91	171	88	106	s.
Southeast Lowlands.																				
Doniphan	Ripley	344	22	59.1	104	Sept. 7	− 2	Jan. 28	22	42.80	6.99	Sept.	0.69	May	6.8	82	105	159	101	sw.
Jackson	Cape Girardeau.	428	35	57.6	110	" 6	− 5	" 28	36	42.87	8.64	Oct.	0.82	"	12.2	94	76	111	178	s.
Marble Hill	Bollinger	470	31	58.1	108	" 5	0	Dec. 27	32	53.47	8.49	"	0.89	"	5.5	82	148	139	78	n.
Morehouse	New Madrid	289	..	....	....	....	....	....	5	43.78	11.23	"	0.60	Dec.	8.2	78	....	....	....	......
Parma	New Madrid	281	..	....	....	....	....	....	5	50.29	14.29	Sept.	0.51	May	7.5	65	....	....	....	......
Patton	Bollinger	500	..	....	....	....	....	....	17	39.47	6.56	June	0.60	"	7.0	67	....	....	....	......
Poplar Bluff	Butler	339	22	59.4	108	Sept. 7	1	Jan. 27	22	39.90	9.27	Sept.	0.54	"	6.5	75	209	84	72	s.
Cairo, Ill	Alexander, Ill.	359	51	59.8	104	" 5	2	Dec. 27	54	39.27	10.53	Oct.	0.57	Dec.	7.8	103	111	117	137	s.
Section means and	extremes	....	..	58.8	110	Sept. 6	− 5	Jan. 28	..	50.32	14.29	Sept.	0.51	May	7.7	81	130	122	113	s.
Ozark Plateau.																				
Arcadia	Iron	926	45	54.3	102	Sept. 6	−14	Jan. 28	48	45.81	7.34	Sept.	1.26	Dec.	7.8	88	232	15	118	se.
Birchtree	Shannon	1,000	31	58.3	104	" 6†	− 2	" 28	32	44.57	8.77	Oct.	1.20	May	10.5	77	226	58	81	se.
Bolivar	Polk	1,071	32	57.2	104	" 4†	− 1	Dec. 28	39	31.92	9.13	Sept.	0.47	Dec.	11.8	72	195	90	80	sw.
Eldon	Miller	934	30	....	106	" 7	− 4	Jan. 27	26	......	7.04	"	0.83	Jan.	....	....	....	....	....	......
Farmington	St. Francis	918	15	57.2	107	" 6	− 6	" 28	29	37.94	7.52	"	1.03	"	11.5	102	160	124	81	sw.
Gano	Dent	1,250	22	56.9	101	" 5†	−12	" 28	25	39.08	6.46	"	1.15	Mar.	16.9	96	186	88	91	s.
Goodland	Iron	1,000	32	56.2	105	" 6	−15	" 28	33	39.60	5.85	"	1.30	"	14.7	70	182	91	92	s.
Greenville	Wayne	381	4	56.6	106	" 6	−12	" 28	4	51.30	9.19	Oct.	0.58	May	8.2	75	224	52	89	s.
Hollister	Taney	735	39	59.0	106	" 4†	−10	" 28	23	38.14	8.60	Sept.	0.45	Mar.	6.5	50	196	63	106	sw.
Koshkonong	Oregon	958	25	59.7	104	" 4	2	" 28	25	45.32	10.28	"	1.00	May	6.7	82	179^{g}	85^{g}	94^{g}	sw.
Lebanon	Laclede	1,265	38	55.6	103	" 4†	− 3	Dec. 28	39	38.01	7.70	"	0.64	Feb.	11.5	93	161	91	113	s.
Lockwood	Dade	1,078	20	57.2	100	" 6	− 3	Jan. 27	30	46.81	14.55	"	1.12	Dec.	12.2	62	223	57	85	sw.
Mountain Grove	Wright	1,463	25	56.4	103	" 6	0	" 28†	27	43.93	12.38	"	0.87	Mar.	9.9	99	148	129	88	se.
Neosho	Newton	1,011	38	58.7	99	" 4†	− 2	" 28	43	35.03	5.26	April	1.15	Dec.	4.5	88	217^{a}	84^{a}	63^{a}	sw.
Rolla	Phelps	1,099	26	57.7	102	" 4†	− 2	Dec. 27	42	35.88	7.45	Sept.	1.32	Jan.	13.6	82	212^{a}	79^{a}	73^{a}	s.
Seligman	Barry	1,542	24	58.5	101	" 6†	− 2	" 28	24	37.21	6.52	April	0.64	Dec.	5.8	75	180^{v}	96^{v}	67^{v}	sw.
Seymour	Webster	1,642	20	56.1	99	" 6	− 2	" 27†	20	43.91	10.53	Sept.	0.81	Mar.	9.0	81	209^{a}	74^{a}	81^{a}	s.
Springfield	Greene	1,350	38	56.8	98	" 7	− 1	" 28	38	31.89	7.75	"	0.91	Dec.	13.4	109	209	79	77	se.
Section means and	extremes	....	..	57.2	107	Sept. 6	−15	Jan. 28	..	39.93	14.55	Sept.	0.45	Mar.	10.3	82	197	80	88	sw.
Southwest Plain.																				
Amoret	Bates	831	18	55.7	105	Sept. 6	− 5	Jan. 28†	18	37.46	8.52	Sept.	0.44	Jan.	16.9	82	228	67	70	n.
Appleton City	St. Clair	853	32	57.2	104	July 8	− 3	" 27	34	33.80	5.50	"	0.80	"	17.9	90	145^{f}	165^{f}	49^{f}	sw.
Clinton	Henry	765	33	58.0	106	" 8	− 5	" 27	39	44.06	9.35	June	0.84	"	32.5	90	155^{e}	125^{e}	80^{e}	sw.
Harrisonville	Cass	904	49	54.1	104	Aug. 18†	− 3	" 27†	51	35.68	5.82	"	0.41	"	14.0	95	75	9	281	e.
Lamar	Barton	980	39	56.9	104	Sept. 4†	− 1	" 28	45	34.38	9.14	Sept.	0.67	Nov.	6.0	80	191	71	103	sw.
Lamonte	Pettis	867	25	55.9	108	" 4	− 3	" 13†	39	39.69	5.35	June	1.18	July	28.4	106	193	99	73	se.
Marshall	Saline	779	37	55.7	105	" 6†	− 3	" 13†	37	41.41	8.09	"	0.35	Jan.	22.4	102	149^{i}	106^{i}	101^{i}	ne.
Nevada	Vernon	862	33	56.8	102	" 7	− 4	" 27	34	33.07	8.51	Sept.	0.56	"	13.5	89	230	55	80	s.
Warrensburg	Johnson	878	39	56.6	103	Aug. 18	− 2	" 27	46	33.39	5.26	June	0.74	"	13.8	103	166^{c}	114^{c}	82^{c}	sw.
Warsaw	Benton	687	26	58.3	105	July 8†	− 3	" 28	31	40.71	8.15	Sept.	1.07	"	19.0	82	165	110	90	e.
Section means and	extremes	....	..	56.5	108	Sept. 4	− 5	Jan. 27†	..	37.38	9.35	June	0.35	Jan.	18.4	89	170	93	102	sw.
Northwest Plateau.																				
Avalon	Livingston	730	36	53.6	102	Sept. 4†	− 6	Dec. 27	29	42.59	8.40	June	0.58	Jan.	26.4	70	....	....	....	sw.
Chillicothe	Livingston	779	17	51.8	100	" 3†	− 6	" 27	20	39.54	7.59	Sept.	0.03	"	14.1	95	190	88	87	ne.
Conception	Nodaway	980	37	52.8	103	July 1	− 9	" 27	42	33.78	8.04	Aug.	0.36	"	13.7	72	135	132	98	sw.
Edgerton	Platte	856	6	53.9	102	Aug. 18	− 4	" 27	14	33.17	6.60	June	0.20	"	10.3	94	252^{d}	16^{d}	93^{d}	s.
Grant City	Worth	1,134	22	52.9	99	July 1	− 8	" 27	34	35.02	7.94	Aug.	0.22	"	24.7	52	173^{a}	132^{a}	59^{a}	s.
Kansas City	Jackson	963	37	55.6	103	Aug. 18	− 2	" 27	37	37.80	7.10	June	0.26	"	14.3	110	158	112	95	s.
Kidder	Caldwell	1,020	33	51.7	103	Sept. 3	− 6	" 27	38	45.03	9.84	"	0.25	"	13.0	85	174	60	131	se.
Lexington	Lafayette	688	41	55.3	103	Aug. 18†	− 2	" 27	44	40.87	7.45	"	0.35	"	12.2	108	175	110	80	s.
Maryville	Nodaway	1,036	36	52.7	104	July 1	− 6	Jan. 27†	32	38.61	11.24	Aug.	0.70	Jan. †	27.5	78	217	15	133	s.
Oregon	Holt	1,048	70	52.4	97	" 1†	− 7	" 25	70	38.53	8.01	June	0.45	Dec.	18.9	72	180	97	88	nw.
St. Joseph	Buchanan	967	18	54.0	100	" 1†	− 4	" 27†	54	43.70	12.55	"	0.27	Jan.	11.4	113	181	97	87	nw
Tarkio	Atchison	916	23	51.9	104	" 1	− 6	" 27†	33	38.78	11.03	Aug.	0.42	Nov.	24.5	69	167	74	124	se.
Trenton	Grundy	822	30	52.2	95	Sept. 5	− 6	Dec. 27	31	46.46	10.30	June	0.25	Jan.	18.0	95	192^{a}	95^{a}	77^{a}	s
Section means and	extremes	....	..	53.1	104	July 1	− 9	Dec. 27	..	39.53	12.55	Aug.	0.03	Jan.	17.6	86	183	86	96	s.
State means and	extremes	....	..	55.5	110	Sept. 6	−14	Jan. 28	..	39.78	14.55	Sept.	0.03	Jan.	16.4	86	170	94	101	s.

† Also on other dates.

a, b, c, indicate the number of days missing from records, a, 1; b, 2; c, 3; etc.

Monthly and Annual Precipitation for the Year 1925, with Departures.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual	
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
Northeast Plain.																										
Boonville	0.85	−1.02	2.05	−0.37	3.29	+0.26	4.63	+0.72	4.23	−1.00	6.48	+1.01	1.64	−2.28	5.13	+1.40	2.40	−2.29	8.62	+5.79	2.53	+0.22	1.66	−0.26	43.50	+2.18
Brunswick	0.59	−1.04	1.89	+0.04	1.36	−1.20	5.13	+1.65	3.44	−1.45	9.75	+4.56	2.30	−2.34	5.08	+1.19	2.48	−1.91	3.61	+0.88	2.28	+0.31	2.73	+1.11	40.64	+1.80
Clifton Hill	0.52	−1.08	2.44	+1.11	1.01	−1.64	2.54	−1.82	2.23	−2.91	6.79	+2.45	1.80	−2.08	8.54	+4.51	3.61	−1.25	2.82	+0.70	2.17	+0.26	2.67	+1.27	37.14	−0.48
Columbia	0.82	−1.41	1.41	−0.72	2.63	−0.40	4.38	+0.68	3.56	−1.30	7.07	+2.69	2.01	−1.64	5.11	+2.07	4.88	+2.03	4.63	+2.21	3.16	+0.85	1.88	−0.13	41.54	+4.93
Downing	0.29	−1.44	1.25	−0.15	2.20	−0.16	6.15	+2.80	0.60	−3.81	6.68	+2.30	2.46	−2.47	4.65	+1.13	10.15	+5.44	3.73	+1.53	1.23	−0.40	1.40	−0.06	40.79	+5.75
Fayette	0.15	−1.84	1.44	−0.46	2.73	−0.08	3.84	+0.30	4.22	−0.40	7.61	+3.07	1.59	−2.06	5.49	+2.27	2.74	−2.09	4.38	+1.90	2.36	+0.36	2.08	+0.45	38.63	+1.42
Fulton	....	......	....	......	....	......	....	......	1.78	−2.99	8.07	+3.85	3.77	−0.22	2.94	−0.57	4.12	−0.27	5.60	+2.85	3.56	+1.31	3.69	+1.77	.....	......
Gorin	0.27	−1.28	1.36	−0.13	1.71	−0.75	3.28	−0.72	1.73	−2.88	5.86	+1.95	2.86	−1.17	4.26	+1.26	7.57	+3.28	3.47	+1.09	0.94	−1.02	1.24	−0.45	34.55	−0.82
Hannibal	0.39	−1.81	2.40	+0.80	2.09	−0.67	1.90	−1.35	2.84	−2.16	3.27	−0.25	2.96	−0.79	4.67	+1.29	6.18	+2.62	3.73	+2.09	2.57	+0.62	1.54	−0.11	34.54	+0.28
Hermann	0.48	−1.67	0.67	−1.56	2.34	−0.67	2.80	+1.14	1.52	−2.86	9.37	+5.05	2.31	−1.34	3.33	+0.14	2.49	−1.54	5.14	+2.35	3.59	+0.87	1.21	−0.61	35.25	−0.70
Jefferson City	1.09	−1.13	0.86	−1.23	2.44	−0.38	3.20	−0.34	1.64	−2.91	5.81	+1.79	1.87	−1.58	4.98	+1.92	4.24	+0.96	4.21	+1.62	2.92	+0.65	1.19	−0.66	34.45	−1.29
Kirksville	0.19	−1.34	1.97	+0.15	1.53	−1.24	2.39	−1.25	1.96	−3.25	11.41	+7.14	0.57	−3.88	2.88	−0.44	8.94	+4.63	4.05	+1.32	1.36	−0.40	2.17	+0.53	39.42	+1.97
Louisiana	0.92	−1.10	3.62	+1.27	5.16	+2.26	2.26	−1.12	1.38	−3.18	4.69	+0.74	3.45	+0.33	3.86	+0.13	3.86	−0.09	5.91	+3.28	4.00	+1.72	1.11	−0.58	40.22	+3.66
Macon	0.38	−1.27	2.03	+0.08	1.84	−0.85	3.05	−0.14	3.60	−0.97	8.05	+3.64	2.50	−1.26	6.52	+3.24	4.73	+0.52	3.26	+0.53	2.18	+0.25	2.68	+1.28	40.82	+5.05
Mexico	0.88	−1.17	1.62	−0.59	2.23	−0.56	2.89	−0.78	3.71	−1.05	6.56	+1.78	2.19	−1.56	3.54	+0.29	2.82	−1.86	6.86	+4.48	3.50	+1.18	1.42	−0.58	38.22	−0.42
Milan	0.22	......	1.95	......	1.67	......	8.14	......	2.04	......	11.54	......	3.30	......	3.33	......	7.05	......	4.12	......	1.40	......	1.35	......	46.11	......
Pacific	0.86	−1.55	1.61	−0.73	2.81	−0.90	2.39	−1.69	2.14	−2.85	7.46	+3.09	4.55	+0.47	2.25	−1.57	3.96	+0.10	4.74	+1.79	3.31	+0.56	1.39	−0.67	37.47	−3.95
St. Catharine	0.23	−1.01	2.18	+0.94	1.20	−1.47	3.87	+0.34	2.41	−2.29	6.90	+2.12	2.27	−2.30	4.12	+0.42	5.74	+1.64	3.09	+1.13	1.24	−0.49	2.03	+0.75	35.28	−0.22
St. Charles	0.86	−1.41	1.29	−1.34	3.78	+0.69	2.89	−0.79	1.12	−3.06	7.49	+3.53	2.92	−0.31	2.88	−0.58	2.51	−0.77	3.44	+0.77	4.00	+1.46	1.06	−0.81	34.24	−2.62
St. Louis(1)	0.53	−1.74	2.19	−0.56	1.50	−1.93	2.70	−0.82	1.48	−2.76	4.84	+0.37	1.78	−1.65	2.75	+0.09	4.59	+1.68	4.32	+1.91	4.09	+1.21	1.46	−0.77	32.23	−4.97
St. Louis(2)	0.60	−2.47	2.26	−0.05	1.76	−1.19	2.97	−1.04	1.42	−2.82	5.45	+1.69	2.65	−0.10	2.67	−2.94	5.15	+0.51	3.70	−0.09	3.78	+1.47	1.78	−0.32	34.19	−7.35
Shelbina	....	......	3.31	+1.39	2.27	−0.58	2.83	−0.70	3.70	−1.28	5.26	+0.55	4.26	+0.10	2.93	+0.08	4.04	+0.06	4.09	+1.37	3.15	+1.07	2.43	+0.82	.....	......
Steffenville	0.32	−1.87	2.40	+0.55	1.49	−1.42	3.08	−0.53	3.00	−1.95	6.33	+2.23	4.40	−0.03	7.82	+4.35	4.99	+0.80	3.47	+1.35	2.45	+0.52	2.21	+0.65	41.96	+4.55
Union	0.84	......	1.15	......	3.03	......	2.75	......	2.31	......	7.41	......	4.34	......	2.42	......	3.52	......	4.82	......	3.73	......	1.60	......	37.92	......
Unionville	0.19	−1.65	1.52	−0.31	1.85	−0.54	5.21	+1.40	1.75	−3.21	8.25	+3.57	1.30	−2.99	3.65	−0.31	9.05	+4.44	3.85	+1.39	0.95	−0.87	1.83	+0.19	39.40	+1.11
Valley Park	0.70	......	1.93	......	1.96	......	2.52	......	1.87	......	5.81	......	2.12	......	3.53	......	2.59	......	3.83	......	4.33	......	1.43	......	32.63	......
Warrenton	0.52	−1.86	1.30	−0.89	2.30	−1.07	2.49	−1.82	1.37	−3.42	7.10	+3.14	1.57	−1.85	4.62	+1.44	2.39	−1.65	5.77	+2.91	3.46	+0.87	1.30	−0.83	34.19	−5.03
Keokuk, Ia.	0.35	−1.34	1.71	+0.09	0.95	−1.42	3.67	+0.33	1.28	−2.97	4.79	+0.44	3.90	−0.13	4.68	+1.43	6.99	+3.02	2.56	+0.07	1.04	−0.81	1.65	−0.22	33.57	−1.51
Southeast Lowlands																										
Cape Girardeau	1.34	−2.58	....	......	2.50	−0.91	2.80	−1.14	0.39	−3.88	6.77	+3.87	1.03	−1.87	0.68	−3.59	8.76	+6.44	7.76	+4.52	5.95	+2.61	0.98	−2.31	.....	......
Caruthersville	....	......	....	......	....	......	....	......	....	......	0.27	−3.71	1.65	−1.76	1.01	−2.56	4.78	+1.68	8.95	+5.99	6.65	+2.80	0.57	−3.87	.....	......
Doniphan	1.79	−2.42	1.50	−1.65	3.11	−0.48	3.72	−1.65	0.69	−3.47	6.88	+2.50	2.14	−2.59	3.13	−1.18	6.99	+3.35	4.93	+1.88	5.27	+2.15	2.65	−0.68	42.80	−4.24
Jackson	1.57	−2.15	3.38	+0.49	2.30	−2.04	3.38	−1.09	0.82	−3.54	6.98	+2.69	0.98	−2.54	0.85	−2.76	7.16	+3.61	8.64	+5.42	5.66	+2.53	1.15	−2.05	42.87	−1.43
Marble Hill	3.13	−0.40	3.53	+0.25	3.17	−1.01	3.39	−1.05	0.89	−3.34	7.70	+3.53	4.34	−0.34	2.62	−0.88	7.15	+3.52	8.49	+5.84	7.75	+4.58	1.31	−2.02	53.47	+8.68
Morehouse	1.67	−2.56	1.85	−1.41	2.52	−1.98	2.68	−1.58	0.63	−3.53	5.03	+1.15	2.03	−2.74	1.27	−2.54	8.67	+5.81	11.23	+8.63	5.60	+1.95	0.60	−3.41	43.78	−2.21
New Madrid	2.03	−3.33	5.11	+1.26	3.62	−1.63	2.05	−2.30	0.81	−3.78	7.95	+3.74	1.60	−2.31	1.07	−2.81	10.28	+6.97	10.37	+7.12	4.48	+0.63	1.32	−3.04	50.69	−0.52
Parma	1.35	......	3.63	......	2.75	......	2.23	......	0.51	......	3.45	......	4.62	......	1.51	......	14.29	......	10.45	......	4.67	......	0.83	......	50.29	......
Patton	1.26	−1.79	2.57	+0.63	1.92	−2.14	3.57	+0.09	0.60	−4.18	6.56	+2.89	3.47	−0.27	1.32	−3.22	6.03	+2.82	5.47	+2.30	5.51	+3.28	1.19	−1.83	39.47	−1.42
Poplar Bluff	1.53	−2.44	2.19	−0.77	1.92	−2.60	2.68	−1.79	0.54	−4.49	3.45	−1.57	1.23	−2.32	2.07	−2.20	9.27	+5.69	8.36	+5.16	5.33	+2.07	1.33	−2.85	39.90	−8.11
Cairo, Ill.	1.21	−2.61	2.82	−0.51	2.19	−1.83	1.66	−1.91	0.86	−2.97	5.95	+1.64	2.08	−1.37	0.60	−2.33	6.21	+3.74	10.53	+7.90	4.59	+0.57	0.57	−2.76	39.27	−2.44
Ozark Plateau																										
Annapolis	1.06	......	2.65	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	.....	......
Arcadia	1.59	−1.63	2.50	−0.66	1.59	−2.48	4.82	+0.20	3.03	−1.75	5.47	+0.89	4.87	+0.53	2.27	−1.45	7.34	+3.70	6.96	+3.89	4.11	+0.49	1.26	−1.72	45.81	+0.01
Birchtree	1.98	−1.08	2.59	+0.10	1.48	−2.77	5.89	+1.17	1.20	−3.11	2.39	−2.14	3.44	−0.55	2.97	−1.42	8.03	+4.44	8.77	+6.19	3.98	+1.09	1.85	−0.72	44.57	+1.20
Bolivar	1.40	−0.49	0.98	−1.31	3.18	+0.14	4.27	+0.28	2.18	−3.24	3.94	−1.08	2.08	−1.67	1.78	−1.90	9.13	+5.03	1.56	−1.75	0.95	−1.58	0.47	−1.93	31.92	−9.50
Dean	0.89	−1.35	0.85	−0.98	0.28	−3.07	4.28	+0.24	1.14	−4.82	4.89	−0.38	8.60	+4.55	....	......	4.36	+0.74	3.75	+0.26	3.49	+0.45	0.71	−1.41	.....	......
De Soto	1.10	......	1.32	......	1.22	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	.....	......
Eldon	0.83	−0.71	....	......	1.44	−1.39	3.11	−1.35	2.89	−1.97	4.17	−0.14	2.18	−1.48	2.00	−1.98	7.04	+3.24	3.32	+0.29	4.29	+2.08	0.89	−1.27	.....	......
Farmington	1.08	−1.32	2.18	−1.11	1.48	−1.79	4.18	+0.22	2.86	−2.64	5.46	+0.83	1.70	−1.85	1.18	−2.20	7.52	+4.30	4.72	+1.83	4.29	+0.33	1.34	−1.37	37.94	−4.77
Fredericktown	2.02	......	1.97	......	2.57	......	5.25	......	2.24	......	5.24	......	3.65	......	1.32	......	6.76	......	9.12	......	4.29	......	0.90	......	45.33	......
Galena	3.31	+1.05	1.50	−0.58	0.10	−3.77	3.83	+0.35	0.70	−4.54	4.70	+1.14	1.45	−2.88	2.75	−0.89	6.03	+1.90	5.33	+2.89	3.10	+0.20	0.82	−1.80	33.62	−6.93
Gano	1.55	−1.30	1.85	−0.53	1.15	−2.15	4.29	−0.26	2.49	−2.05	4.76	+0.46	2.60	−0.90	4.31	−0.10	6.46	+2.20	3.71	−0.17	3.36	+1.05	2.55	+0.54	39.08	−3.21
Goodland	1.84	−1.03	2.17	−0.32	1.30	−2.95	4.25	−0.84	2.87	−1.75	4.43	+0.33	4.24	+0.06	2.23	−1.80	5.85	+2.12	4.83	+1.61	3.72	+0.83	1.87	−0.61	39.60	−4.35
Greenville	1.75	......	3.10	......	2.86	......	4.64	......	0.58	......	8.50	......	2.60	......	1.96	......	8.00	......	9.19	......	6.17	......	1.95	......	51.30	......
Hailey	....	......	....	......	....	......	....	......	1.85	......	2.77	......	4.70	......	2.43	......	4.43	......	5.28	......	2.58	......	0.90	......	.....	......
Hollister	1.80	−0.81	1.70	−0.38	0.45	−2.78	6.80	+2.23	0.70	−3.53	2.40	−1.61	2.75	−1.17	2.10	−1.87	8.60	+4.89	7.10	+4.27	3.10	+0.32	0.64	−1.63	38.14	−2.07
Houston	....	......	....	......	....	......	....	......	2.36	−1.73	3.94	−0.72	3.79	−0.27	....	......	8.94	+4.83	....	......	....	......	....	......	.....	......
Jerome	1.67	−0.39	1.10	−1.49	2.56	−0.10	4.04	+0.23	3.49	−0.97	2.66	−0.87	3.13	−0.10	2.76	−1.48	....	......	....	......	....	......	....	......	.....	......
Koshkonong	1.99	−1.55	2.26	−0.53	1.20	−2.61	3.47	−1.50	1.00	−3.84	5.99	+1.51	2.70	−1.22	1.32	−3.13	10.28	+6.79	8.53	+5.62	4.86	+1.84	1.72	−1.44	45.32	−0.06
Lebanon	2.40	−0.05	0.64	−1.86	2.07	−1.38	4.73	+0.55	3.20	−2.41	3.46	−1.47	4.26	+0.14	2.39	−1.14	7.70	+3.61	3.09	−0.17	2.90	+0.36	1.17	−1.43	38.01	−5.25
Lockwood	1.20	−0.46	1.50	−0.47	2.42	−0.04	5.37	+1.71	2.78	−2.30	5.99	+1.19	2.43	−2.44	2.07	−2.10	14.55	‡10.55	3.82	+0.37	3.56	+1.35	1.12	−0.82	46.81	+6.54
Mountain Grove	1.82	−1.05	2.42	+0.16	0.87	−3.47	5.07	+0.29	1.83	−3.02	3.45	−1.11	3.22	−0.78	3.15	−1.25	12.38	+8.34	5.74	+2.69	2.72	+0.29	1.26	−0.97	43.93	+0.12
Neosho	2.00	−0.50	1.69	−0.69	1.79	−1.68	5.26	+1.14	1.53	−4.54	3.85	−1.58	4.31	+0.13	2.69	−1.40	4.18	−0.04	3.38	−0.01	3.20	+0.14	1.15	−1.39	35.03	*10.56
Rolla	1.32	−1.13	1.35	−0.99	2.12	−1.47	4.44	−0.22	4.03	−0.98	3.30	−0.83	3.14	−0.95	2.02	−2.06	7.45	+3.61	2.22	−0.73	2.92	+0.61	1.57	−0.50	35.88	−5.64
Seligman	2.10	−0.14	1.43	−0.45	0.70	−3.24	6.52	+2.59	2.23	−3.36	3.62	+0.09	4.64	+0.24	1.57	−2.42	5.59	+1.47	5.56	+2.62	2.61	+0.25	0.64	−1.93	37.21	−4.28
Seymour	1.66	−1.04	1.25	−1.20	0.81	−3.25	4.52	+0.56	1.71	−3.99	4.18	−0.45	5.36	+0.61	4.09	+0.25	10.53	+5.95	5.95	+2.94	2.71	+0.38	1.14	−0.91	43.91	−0.15
Springfield	1.58	−1.08	1.06	−1.21	1.07	−3.00	2.68	−1.18	2.82	−2.73	3.88	−1.31	3.53	−1.26	1.74	−2.57	7.75	+3.99	2.82	+0.02	2.05	−0.59	0.91	−1.76	31.89	*12.68
Steelville	1.22	−0.63	1.46	−0.80	1.60	−0.48	4.28	−0.03	3.75	−0.59	3.63	−0.52	4.18	+0.98	2.56	−0.95	5.39	+2.19	5.63	+2.42	3.43	+0.75	2.11	+0.20	39.24	+2.54
Tuscumbia	0.81	......	0.97	......	2.57	......	3.05	......	2.61	......	3.11	......	1.28	......	1.75	......	6.30	......	3.78	......	3.71	......	1.19	......	31.13	......
Willow Springs	1.90	......	2.30	......	1.05	......	5.51	......	1.62	......	1.71	......	3.58	......	1.82	......	10.68	......	7.03	......	3.71	......	1.98	......	42.89	......
Southwest Plain																										
Amoret	0.44	−0.85	1.58	−0.57	2.74	+0.24	5.41	+1.41	2.13	−2.69	4.99	+1.13	4.46	+0.50	1.03	−2.98	8.52	+4.62	2.28	−0.24	3.18	+1.52	0.60	−0.99	37.46	+1.10
Appleton City	0.80	−1.03	1.32	−0.65	2.57	−0.50	4.65	+0.39	1.82	−3.72	5.38	+0.39	1.87	−2.76	1.60	−2.14	5.50	+1.83	3.02	+0.68	3.04	+0.91	2.23	+0.59	33.80	−6.01
Clinton	0.84	−1.14	1.58	−0.52	3.01	+0.15	6.02	+1.98	2.54	−2.90	9.35	+4.62	2.23	−1.71	1.38	−1.98	8.53	+4.71	3.93	+1.12	2.70	+0.82	1.95	+0.22	44.06	+5.37
Harrisonville	0.41	−1.19	1.35	−0.67	2.22	−0.47	5.37	+1.98	2.39	−2.42	5.82	+1.36	3.06	−0.72	3.23	−0.92	4.44	+0.08	3.96	+1.37	2.29	+0.34	1.14	−0.64	35.68	−1.90
Joplin	1.49	−0.59	1.45	−0.79	1.45	−1.44	....	......	....	......	5.11	+0.86	3.41	−1.00	1.56	−2.70	4.14	+0.89	1.97	−1.33	3.18	+0.62	0.80	−1.06	.....	......
Lamar	1.10	−0.60	1.30	−0.93	3.28	+0.38	4.30	+0.15	3.52	−1.94	5.55	+0.59	1.56	−2.68	1.22	−2.96	9.14	+4.90	1.98	−1.15	0.67	−1.57	0.76	−1.19	34.38	−7.00
Lamonte	2.82	+1.04	2.33	+0.42	3.67	+1.07	4.87	+1.10	3.76	−1.19	5.35	+0.86	1.18	−2.82	2.82	−0.90	4.25	−0.25	4.02	+1.69	2.76	+0.86	1.86	+0.20	39.69	+2.08
Marshall	0.35	−1.47	1.48	−0.36	2.14	−0.57	4.97	+1.28	2.21	−2.65	8.09	+3.77	2.55	−1.41	6.53	+2.87	3.17	−1.71	5.49	+2.91	2.02	−0.06	2.41	+0.75	41.41	+6.22
Nevada	0.56	−1.41	0.84	−1.24	1.30	−1.69	5.45	+1.66	2.76	−2.96	5.05	−0.06	0.90	−3.03	2.17	−1.34	8.51	+4.35	1.72	−1.36	3.24	+1.36	0.57	−1.29	33.07	−7.01
Osceola	1.90	−0.22	1.33	−0.46	2.70	−0.23	4.47	+0.42	2.60	−3.35	5.96	+1.21	1.32	−2.72	2.42	−1.20	7.06	+2.55	2.09	+0.26	4.23	+1.45	1.80	−0.42	38.88	−2.71
Warrensburg	0.74	−1.05	1.52	−0.61	2.57	+0.03	4.81	+1.61	3.53	−1.13	5.26	+0.50	1.41	−2.54	1.34	−2.25	4.02	+0.43	3.64	+1.09	2.45	+0.67	2.10	+0.30	33.39	−2.95
Warsaw	1.07	−1.31	1.42	−1.14	4.07	+0.84	4.92	+0.70	2.38	−2.85	5.55	+0.38	1.35	−2.95	2.65	−1.64	8.15	+3.83	4.12	+0.81	3.30	+0.89	1.73	−0.59	40.71	−3.03
Waverly	0.40	−1.22	1.39	+0.25	1.70	−1.52	5.39	+1.10	3.36	−1.95	5.46	+0.34	3.49	+0.13	3.46	−0.53	2.39	−2.55	4.84	+2.76	2.08	+0.24	2.05	+1.02	36.01	−1.93
Northwest Plateau																										
Albany	0.75	......	2.64	......	1.12	......	....	......	1.97	......	7.40		0.83	....	8.45	....	8.72	......	1.95	....	1.00	......	0.30	......	.....	......
Avalon	0.58	−1.21	3.10	+1.18	1.48	−1.57	5.73	+2.26	1.25	−3.78	8.40	+4.04	3.05	−1.06	6.35	+2.74	5.30	+0.24	3.50	+0.55	1.85	−0.12	2.00	+0.49	42.59	+3.76
Bethany	0.31	−0.99	3.62	+2.18	1.52	−0.78	....	......	0.87	−4.11	....	......	....	......	....	......	....	......	....	......	....	......	....	......	.....	......
Chillicothe	0.03	−1.63	2.37	+0.36	0.99	−1.79	5.52	+1.08	2.21	−2.50	5.45	+0.38	3.86	−0.72	5.90	+1.24	7.59	+1.85	3.41	−0.04	0.91	−1.42	1.30	−0.35	39.54	−3.54
Conception	0.36	−0.59	2.08	+0.89	1.17	−0.58	2.41	−0.40	1.66	−3.11	7.15	+2.60	2.08	−2.22	8.04	+4.56	4.93	+1.08	2.95	+0.50	0.40	−0.96	0.55	−0.44	33.78	+1.33
Edgerton	0.20	−1.07	1.87	+0.42	0.72	−2.03	4.81	+1.27	4.17	−1.28	6.60	+1.49	3.27	−1.53	2.93	−0.91	4.84	+1.56	1.90	−0.35	0.69	−0.78	1.17	−0.16	33.17	−3.37
Gallatin	....	......	1.51	−0.09	1.39	−1.16	6.54	+2.82	2.38	−3.12	9.04	+3.73	2.69	−1.66	5.95	+1.83	8.12	+4.38	3.89	+1.27	0.75	−1.03	1.15	−0.37	.....	......
Grant City	0.22	−0.74	0.45	−0.67	2.14	+0.03	2.38	−0.68	1.55	−3.18	6.91	+2.36	1.45	−3.71	7.94	+4.31	7.77	+3.78	3.21	+0.49	0.49	−1.12	0.51	−0.65	35.02	+0.22
Kansas City	0.26	−0.87	1.75	+0.16	1.26	−1.56	5.16	+1.87	5.49	+0.38	7.10	+2.44	3.00	−1.84	1.65	−3.10	5.50	+1.74	3.89	+1.68	1.47	−0.38	1.27	−0.09	37.80	+0.43
Kidder	0.25	−1.05	1.97	+0.45	1.46	−0.84	6.03	+2.99	2.38	−2.83	9.84	+5.48	3.98	+0.05	3.63	−0.28	8.91	+4.67	4.70	+2.08	1.05	−0.79	0.83	−0.47	45.03	+9.46
King City	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......	3.62	......	0.91	......	1.08	......	.....	......
Lexington	0.35	−1.22	1.58	−0.42	2.05	−0.32	6.66	+3.30	3.60	−1.46	7.45	+2.68	3.08	−1.64	2.05	−1.18	4.22	+0.22	5.49	+2.92	2.10	+0.25	2.24	+0.52	40.87	+3.65
Liberty	....	......	....	......	....	......	....	......	....	......	....	......	1.53	−2.81	1.21	−2.72	4.84	+0.40	1.98	−0.47	....	......	....	......	.....	......
Maryville	0.70	−0.38	1.50	+0.06	1.30	−0.58	3.01	+0.10	0.70	−5.05	7.62	+2.99	2.46	−2.93	11.24	+7.38	5.80	+1.59	2.78	+0.11	0.70	−0.95	0.80	−0.25	38.61	+2.09
Oregon	0.52	−0.87	1.26	−0.36	1.07	−0.95	4.81	+1.52	2.59	−2.27	8.01	+3.28	3.39	−0.93	7.66	+3.69	5.56	+1.82	2.11	−0.45	1.10	−0.59	0.45	−0.99	38.53	+2.90
St. Joseph	0.27	−0.57	0.87	−0.64	1.46	−1.03	3.96	+1.10	3.96	−0.65	12.55	+8.46	3.30	+0.27	4.63	+1.46	8.51	+3.84	2.20	−0.23	1.07	−0.42	0.92	−0.21	43.70	‡11.38
Tarkio	0.44	−0.35	0.89	−0.18	1.64	−0.06	3.25	+0.08	1.55	−3.11	7.12	+2.31	3.21	−0.50	11.03	+7.16	5.00	+1.50	3.77	+1.20	0.42	−1.03	0.46	−0.46	38.78	+6.56
Trenton	0.25	−1.13	2.41	+0.88	1.39	−1.05	8.00	+4.73	2.26	−3.08	10.30	+6.00	1.58	−2.75	4.67	+1.05	8.31	+4.05	3.95	+1.39	0.87	−0.93	2.47	+1.12	46.46	‡10.28

‡ Indicates plus. * Indicates minus.

Monthly and Annual Mean Temperatures for the Year 1925, with Departures.

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Northeast Plain.																										
Brunswick	26.6	- 0.2	35.0	+ 5.9	44.4	+ 2.5	60.5	+ 6.4	59.7	- 4.6	76.7	+ 3.5	77.9	+ 2.2	77.2	+ 3.4	74.4	+ 7.7	47.0	- 8.2	40.7	- 0.8	29.5	- 1.1	54.1	+ 1.4
Clifton Hill	27.1	- 1.6	36.1	+ 6.9	45.2	+ 3.0	58.8	+ 5.3	59.3	- 4.9	75.3	+ 2.3	77.2	+ 0.8	75.7	- 0.5	73.4	+ 4.5	45.9	-11.3	41.0	- 2.8	29.4	- 1.7	53.7	0.0
Columbia	29.0	- 0.2	37.5	+ 5.8	47.0	+ 4.4	60.8	+ 5.9	60.6	- 3.7	75.8	+ 3.0	77.0	+ 0.1	75.8	+ 0.2	73.8	+ 5.6	47.2	- 9.4	41.8	- 1.5	31.0	- 2.2	54.8	+ 0.7
Downing	25.4	......	34.4	......	44.2	......	58.4	......	59.4	......	73.2	......	76.6	......	74.8	......	72.0	......	44.4	......	39.2	......	26.4	......	52.4	......
Fayette	27.4	+ 0.2	34.4[b]	+ 4.2	45.2[b]	+ 3.1	59.1[a]	+ 4.8	59.4	- 4.9	75.2	+ 1.9	77.2	- 0.2	75.5[a]	- 0.6	73.1[b]	+ 4.8	47.0	- 9.7	41.0	- 1.3	27.2[a]	- 4.0	53.5	- 0.1
Fulton	....	......	....	......	....	......	65.0[j]	+10.7	61.0[b]	- 4.0	77.6	+ 4.0	77.6[a]	- 0.3	75.6	- 0.9	73.8	+ 4.9	48.4[e]	- 9.3	40.1	- 4.4	30.3	- 3.4	....	......
Hannibal	27.4	+ 0.3	35.4	+ 5.7	45.2	+ 4.2	60.2	+ 6.8	60.6	- 3.0	75.8	+ 3.3	76.6	- 0.2	75.6	+ 0.6	74.2	+ 6.5	46.0	-10.0	40.6	- 1.5	28.6	- 2.9	53.8	+ 0.8
Jefferson City	28.4	- 1.4	38.2	+ 7.3	48.2	+ 5.0	61.4	+ 5.3	60.5	- 4.4	76.9	+ 2.9	78.1	0.0	76.4	+ 0.3	74.8	+ 5.7	48.0	- 8.6	41.6	- 2.5	30.6	- 2.2	55.3	+ 0.6
Kirksville	25.4[b]	+ 0.5	34.1[a]	+ 8.2	44.0	+ 4.5	57.9[a]	+ 6.2	58.8[a]	- 3.7	72.4	+ 0.2	74.8	- 1.3	73.8	- 0.2	71.6	+ 5.6	43.9	-10.8	38.5	- 2.0	26.4	- 3.2	51.8	+ 0.3
Louisiana	28.4	+ 0.5	38.2	+ 8.5	48.4	+ 5.1	60.8	+ 7.2	59.3[a]	- 4.5	78.0	+ 5.9	77.2	+ 0.8	75.2	+ 0.2	74.8	+ 6.9	48.4	- 7.9	41.3	- 2.9	30.4	- 1.1	55.0	+ 1.6
Macon	26.2	- 2.3	33.4	+ 4.7	44.6	+ 2.0	58.8	+ 5.7	59.8	- 4.1	75.5	+ 2.5	77.2	- 0.2	75.4	- 0.9	72.4	+ 4.1	44.8	-12.0	39.2	- 4.2	27.4	- 3.0	52.9	- 0.6
Mexico	29.2	+ 0.9	35.4	+ 6.1	46.0	+ 4.0	60.0	+ 6.3	60.6	- 3.7	76.2	+ 2.5	77.0	- 0.3	76.6	+ 0.5	74.4	+ 5.8	46.9	- 9.5	40.4	- 2.6	29.4	- 2.4	54.3	+ 0.6
St. Catharine	26.1	- 0.3	35.4	+ 6.4	44.8	+ 2.3	59.2	+ 7.8	59.2	- 3.3	73.4	+ 0.9	75.8	- 0.3	74.8	+ 0.7	72.6	+ 4.8	45.2	-10.7	40.9	- 2.0	28.4	- 1.3	53.0	+ 0.4
St. Charles	31.0	- 0.1	41.0	+ 8.5	48.6	+ 4.2	62.2	+ 6.8	62.2	- 0.8	78.0	+ 3.8	77.6	- 0.5	76.8	+ 0.1	76.2	+ 8.3	50.0	- 8.1	42.8	- 2.7	31.6	- 3.3	56.5	+ 1.4
St. Louis(1)	33.0	+ 1.8	40.8	+ 6.0	48.6	+ 4.4	62.6	+ 6.5	63.3	- 3.7	78.4	+ 3.4	79.0	+ 0.3	78.3	+ 0.8	77.2	+ 6.7	49.5	- 9.3	43.4	- 2.0	32.8	- 2.1	57.2	+ 1.1
St. Louis(2)	32.4	+ 2.2	40.4	+ 8.2	48.2	+ 4.6	62.4	+ 7.2	62.8	- 3.3	78.1	+ 3.2	79.0	- 1.1	78.1	+ 0.9	76.6	+ 6.4	49.2	- 9.7	42.6	- 3.9	32.2	- 2.1	56.8	+ 1.0
Steffenville	27.0	- 0.8	35.2	+ 6.8	43.2	+ 0.8	59.8	+ 6.9	60.4	- 3.7	75.2	+ 2.0	78.0[b]	0.0	76.1	- 0.6	74.6[a]	+ 5.5	46.6	-11.1	40.9	- 2.3	....	......	53.7	0.0
Unionville	25.2	+ 1.7	33.8	+ 8.4	43.5	+ 4.9	57.8	+ 7.1	58.8	- 3.6	72.4	+ 0.6	75.8	- 1.0	74.2	- 0.8	71.7	+ 4.5	44.0	-11.4	40.8	- 3.0	27.8	- 2.8	51.8	+ 0.6
Warrenton	31.4	+ 2.4	40.5	+10.6	49.0	+ 6.8	62.3	+ 7.8	61.4	- 3.6	77.0	+ 3.4	77.6	- 0.2	77.2	+ 0.8	76.0	+ 7.2	49.0	- 6.6	38.6	- 1.6	25.9	- 1.5	56.4	+ 2.5
Keokuk, Ia.	25.4	+ 0.5	33.6	+ 5.3	43.4	+ 4.5	59.1	+ 6.8	60.3	- 3.5	74.2	+ 1.7	76.6	- 0.3	75.2	+ 0.2	72.8	+ 5.3	44.2	-11.2	43.1	+ 0.2	32.7	+ 0.7	52.5	+ 0.3
Section Means	28.0	+ 0.2	36.5	+ 6.9	45.9	+ 3.9	60.1	+ 6.5	60.4	- 3.7	75.8	+ 2.7	77.2	- 0.1	75.9	+ 0.2	74.0	+ 5.8	46.8	- 9.7	39.6	- 1.5	25.4	- 4.2	54.2	+ 0.7
Southeast Lowlands.																										
Caruthersville	....	......	....	......	....	......	....	......	....	......	85.6[i]	+ 7.8	86.2	+ 5.6	85.8	+ 6.1	84.2	+10.8	58.8	- 2.9	53.9	+ 4.0	41.6	+ 1.6	....	......
Doniphan	35.5	- 0.7	43.6	+ 5.5	51.7	+ 2.3	64.1	+ 6.1	64.3	- 2.6	80.4	+ 5.6	80.4	+ 2.2	78.4	+ 1.0	76.8	+ 6.0	53.6	- 4.8	45.0	- 2.6	35.6	- 1.8	59.1	+ 1.4
Jackson	33.6	- 0.4	43.8	+ 8.3	51.3	+ 4.1	64.0	+ 7.1	62.2	- 3.6	78.6	+ 4.5	78.2	+ 0.8	77.4	+ 1.2	76.0	+ 6.1	50.4	- 7.6	42.8	- 3.9	32.4	- 4.2	57.6	+ 1.0
Marble Hill	34.6	- 0.2	39.7	+ 4.4	51.6	+ 4.2	64.2	+ 7.5	63.3	- 2.4	78.5	+ 4.6	77.7	+ 0.4	77.6	+ 0.6	76.2	+ 5.8	53.0	- 5.0	45.6	+ 1.2	35.0	- 1.2	58.1	+ 1.7
Poplar Bluff	37.2	+ 0.6	44.4	+ 8.1	52.4	+ 3.6	64.6	+ 5.4	65.9	- 2.1	80.6	+ 5.2	85.2	+ 6.5	77.8	- 0.2	74.9	+ 3.6	51.3	- 9.0	43.8	- 3.6	34.6	- 2.2	59.4	+ 1.3
Cairo, Ill.	36.8	+ 1.9	44.4	+ 5.9	51.8	+ 4.6	65.0	+ 6.9	64.8	- 3.6	80.2	+ 3.9	80.0	+ 0.4	79.2	+ 1.4	78.4	+ 6.9	53.6	- 6.8	47.2	- 0.1	35.8	- 2.0	59.8	+ 1.6
Section means	35.5	+ 0.2	42.9	+ 6.0	51.6	+ 3.8	64.4	+ 6.7	64.1	- 2.9	80.5	+ 5.3	81.3	+ 2.6	79.7	+ 2.1	77.8	+ 6.5	53.4	- 6.0	46.4	- 0.8	36.0	- 1.6	58.8	+ 1.4
Ozark Plateau																										
Arcadia	30.0	- 2.1	38.7	+ 5.2	45.0	+ 0.2	59.0	+ 3.7	58.7	- 5.9	75.4	+ 3.2	75.8[b]	- 0.1	73.6[b]	- 0.9	73.0	+ 5.4	48.5	- 7.6	41.8	- 2.2	32.0	- 2.3	54.3	- 0.3
Birchtree	35.8	+ 1.4	43.8	+ 8.9	50.4	+ 3.0	63.4	+ 6.6	63.5	- 1.7	77.9[a]	+ 5.2	77.2	+ 0.8	77.7	+ 1.8	76.5	+ 7.0	52.3	- 5.9	45.8[k]	- 0.7	35.0[g]	- 0.8	58.3	+ 2.1
Bolivar	32.2	- 1.7	38.6	+ 4.2	50.8	+ 4.7	62.4	+ 6.3	62.3	- 2.6	77.8	+ 5.0	79.5	+ 2.4	77.8	+ 0.8	76.6	+ 7.0	51.0	- 7.5	43.7	- 3.1	33.2	- 2.6	57.2	+ 1.1
Eldon	31.6	+ 0.2	....	......	52.5[j]	+ 9.0	61.4	+ 6.0	62.4[b]	- 2.1	77.5	+ 4.3	78.6[b]	+ 1.6	77.5[c]	+ 1.1	80.2[l]	+10.9	48.0[n]	- 9.7	41.5[n]	- 3.7	31.7[a]	- 2.6	....	......
Farmington	32.2	- 0.6	42.2	+ 6.6	49.6	+ 2.7	62.2	+ 5.3	61.2	- 2.6	77.3	+ 4.7	77.8	+ 2.5	77.4	+ 2.6	76.0	+ 6.7	51.1	- 5.3	45.0	+ 0.7	34.2	- 2.8	57.2	+ 1.7
Gano	33.0	+ 0.1	42.2	+ 7.7	51.5	+ 4.6	62.4	+ 6.8	61.3	- 4.0	77.0	+ 4.2	77.6	+ 0.7	76.6	+ 0.5	74.0	+ 4.5	49.8	- 8.2	44.1	- 2.7	33.8	- 1.4	56.9	+ 1.1
Goodland	33.2	+ 0.6	42.1	+ 9.2	49.0	+ 4.1	61.4	+ 6.8	60.6	- 3.9	75.2	+ 3.1	75.2	- 0.4	73.8	- 0.7	74.0	+ 6.7	50.6	- 5.2	44.4	- 0.2	34.4	0.0	56.2	+ 1.7
Greenville	33.4	......	37.4	......	50.0	......	62.6	......	62.6	......	77.3[b]	......	75.5	......	74.8	......	74.7	......	52.4	......	44.4	......	33.8	......	56.6	......
Hollister	36.4	- 0.4	44.0	+ 6.0	48.8	+ 0.1	62.5	+ 2.8	59.8	- 7.5	79.6	+ 3.9	78.7	- 0.7	76.4	- 1.5	76.2	+ 4.6	54.8	- 5.6	50.0	+ 1.8	40.8	+ 1.1	59.0	+ 0.4
Houston	....	......	....	......	....	......	....	......	61.6[a]	- 3.3	76.4[j]	+ 4.1	76.8	+ 0.7	....	......	77.3	+ 8.7	....	......	....	......	....	......	....	......
Koshkonong	37.0	+ 0.5	45.0[a]	+ 7.5	53.8	+ 4.2	64.7	+ 6.9	64.0[b]	- 2.8	80.0[b]	+ 5.7	78.9[a]	+ 0.6	79.6[a]	+ 1.9	78.2	+ 7.3	53.8	- 6.2	47.2	- 2.2	34.1[k]	- 3.5	59.7	+ 1.7
Lebanon	30.8	- 2.2	40.2	+ 6.3	47.4	+ 2.0	60.8	+ 5.1	60.0	- 5.6	76.8	+ 3.7	76.9	0.0	75.1	- 1.2	74.8	+ 5.3	49.8	- 8.2	42.3	- 3.7	32.0	- 3.0	55.6	- 0.1
Lockwood	31.6	- 1.7	42.8	+ 7.3	51.8	+ 3.9	62.8	+ 6.8	62.1	- 2.5	76.8	+ 2.8	77.8	+ 0.2	77.4	+ 0.2	74.0	+ 2.7	50.7	- 7.9	44.0	- 3.7	34.0	- 1.5	57.2	+ 0.6
Mountain Grove	32.6	- 0.6	41.0	+ 7.2	48.3	+ 2.3	60.7	+ 6.5	61.8	- 3.1	77.0	+ 5.4	77.0	+ 1.0	76.7	+ 1.6	74.8	+ 6.4	49.0	- 8.6	43.2	- 3.4	34.2	- 0.1	56.4	+ 1.2
Neosho	35.3	+ 0.2	45.6	+ 9.0	53.4	+ 5.2	63.8	+ 5.8	63.2	- 3.0	78.4	+ 4.5	78.2	+ 0.6	76.0	- 0.9	74.7	+ 4.4	52.8	- 6.4	46.7	- 0.5	36.2	- 0.5	58.7	+ 1.5
Rolla	33.9	+ 2.6	43.2	+ 8.0	51.2	+ 6.2	62.9	+ 7.9	62.2	- 2.3	78.2	+ 5.4	78.4	+ 1.0	77.0	+ 1.2	75.6	+ 7.6	50.5	- 5.4	44.5	- 0.4	34.6	+ 1.0	57.7	+ 2.7
Seligman	35.5	+ 0.8	46.4	+10.2	53.2[a]	+ 7.0	61.9[b]	+ 6.1	60.0[d]	- 4.9	77.2[a]	+ 4.7	77.6	+ 1.0	77.1	+ 1.5	76.4[d]	+ 7.6	53.8	- 4.5	47.1[b]	- 0.1	35.6[c]	- 1.0	58.5	+ 2.4
Seymour	33.0[a]	- 1.3	42.6	+10.2	49.9	+ 4.7	60.8	+ 5.4	60.4	- 3.7	75.7	+ 3.7	75.0	- 0.5	72.8	- 2.2	73.4	+ 4.8	50.9	- 6.6	44.0	- 2.1	34.2	- 0.2	56.1	+ 1.0
Springfield	33.2	- 0.3	41.5	+ 6.3	50.1	+ 4.9	62.0	+ 6.0	61.2	- 3.3	77.2	+ 4.7	76.6	- 0.2	77.2	+ 1.5	74.6	+ 5.7	49.5	- 8.7	45.0	- 0.7	34.0	- 2.2	56.8	+ 1.1
Section Means	33.4	- 0.3	42.2	+ 7.5	50.7	+ 4.3	62.1	+ 5.9	61.5	- 3.4	77.4	+ 3.8	77.3	+ 0.6	76.4	+ 0.4	75.5	+ 6.3	51.1	- 6.9	44.7	- 1.6	34.3	- 1.3	57.2	+ 1.2
Southwest Plain.																										
Amoret	27.6	- 2.9	39.2	+ 5.5	48.6	+ 4.7	60.6	+ 6.1	61.4	- 2.1	76.0	+ 2.5	79.2	+ 1.6	76.9	+ 0.5	73.4	+ 4.7	48.6	- 8.5	43.8	- 1.7	33.0	+ 0.5	55.7	+ 0.9
Appleton City	29.6	- 1.7	41.2	+ 8.9	49.8	+ 5.2	61.8	+ 6.0	62.5	- 2.6	77.8	+ 3.0	80.4	+ 2.1	78.3[f]	+ 0.5	75.3	+ 5.0	50.4	- 8.7	45.2	- 0.9	34.0	- 0.3	57.2	+ 1.4
Clinton	30.4[c]	- 1.0	41.2	+ 9.3	50.6	+ 6.3	62.7[b]	+ 7.0	63.8	- 1.4	79.2	+ 5.8	81.8	+ 4.3	80.6	+ 3.8	75.8[h]	+ 5.6	51.5[a]	- 7.1	44.4	- 2.9	33.5	- 0.9	58.0	+ 2.4
Harrisonville	26.4	- 0.8	36.6	+ 6.9	45.2	+ 4.3	59.1	+ 5.3	60.0	- 4.0	75.4	+ 2.0	77.4	- 0.4	76.7	+ 0.9	73.6	+ 5.3	47.0	- 9.0	41.4	- 1.0	30.5	- 0.7	54.1	+ 0.7
Lamar	30.2	- 2.2	41.2	+ 6.7	49.0	+ 2.8	62.2	+ 5.6	61.9	- 4.0	77.8	+ 3.4	78.8	+ 0.3	78.4	+ 0.9	75.0	+ 4.4	50.9	- 8.0	44.4	- 2.2	33.0	- 2.2	56.9	+ 0.5
Lamonte	28.2	- 0.5	38.4	+ 6.8	47.4	+ 3.7	60.6	+ 5.5	61.6	- 3.1	77.2	+ 2.9	79.2	- 0.3	78.8	+ 2.1	76.3	+ 6.2	48.6	- 9.4	42.4	- 2.0	31.8	- 2.4	55.9	+ 0.8
Marshall	27.9[a]	+ 0.3	38.8[c]	+ 9.3	47.2[a]	+ 4.7	61.4	+ 7.0	62.0[c]	- 2.1	77.3	+ 3.4	79.2	+ 1.9	78.0	+ 2.4	75.6[a]	+ 7.3	48.8	- 7.8	42.0[a]	- 3.6	30.7	- 0.9	55.7	+ 1.8
Nevada	30.4	- 1.3	41.2	+ 9.3	48.9	+ 4.6	60.6	+ 5.5	61.1	- 3.5	77.6	+ 4.0	78.9	- 1.3	77.6	+ 0.7	75.4	+ 6.3	50.2	- 7.1	45.6	+ 1.2	34.3	+ 0.4	56.8	+ 1.5
Warrensburg	28.8	- 0.1	39.2	+ 7.9	48.8	+ 5.2	61.3	+ 5.0	61.5	- 3.8	76.9	+ 2.7	79.2	+ 0.4	79.0[a]	+ 2.0	75.7	+ 5.6	49.8	- 8.3	45.4	+ 0.5	33.8	+ 0.4	56.6	+ 1.5
Warsaw	30.7	- 2.1	41.4	+ 7.6	50.3	+ 3.4	64.0	+ 8.2	62.5	- 3.3	78.5	+ 4.8	80.4	+ 2.1	78.0	+ 0.6	76.1	+ 6.1	52.0	- 7.1	47.6	+ 0.1	37.6	+ 2.8	58.3	+ 1.9
Section Means	29.0	- 1.2	39.8	+ 7.6	48.6	+ 4.5	61.4	+ 6.1	61.9	- 2.8	77.4	+ 3.4	79.4	+ 1.1	78.2	+ 1.4	75.2	+ 5.6	49.8	- 8.1	44.2	- 1.2	33.2	- 0.3	56.5	+ 1.3
Northwest Plateau.																										
Avalon	27.1	- 1.4	35.2	+ 5.6	45.6	+ 3.4	58.8	+ 5.3	60.2	- 3.3	74.8	+ 1.2	77.0	- 2.1	76.0	- 0.6	71.8	+ 2.2	45.7	-12.8	40.8	- 3.1	30.4	- 2.0	53.6	- 0.6
Bethany	25.1	+ 0.5	35.8[e]	+ 8.8	45.2[g]	+ 5.2	....	......	62.0[g]	- 0.6	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......
Chillicothe	24.2	- 4.6	32.6	+ 0.1	42.8	+ 1.2	57.9	+ 4.6	58.6	- 8.5	73.8	- 0.4	76.1	- 4.1	74.4	- 1.7	71.3	+ 1.7	44.2	-14.0	38.8	- 3.8	27.1	- 8.5	51.8	- 3.2
Conception	24.6	- 0.2	34.5	+ 7.4	41.4	+ 4.9	59.0	+ 7.1	61.0	- 1.0	74.1	+ 2.5	78.2	+ 1.8	74.5	- 0.1	72.2	+ 5.0	43.8	-11.7	40.0	- 1.4	27.7	- 1.6	52.8	+ 1.1
Edgerton	26.0[a]	......	38.2[d]	......	46.4[d]	......	58.6[c]	......	60.2	......	74.4[a]	......	76.8[a]		74.8	......	72.8[a]	......	46.4[d]		41.1[c]	......	31.1[b]	......	53.9	......
Grant City	26.5	+ 1.6	34.8	+ 7.5	44.4	+ 3.1	58.8	+ 7.3	59.0[a]	- 3.1	72.6	+ 1.3	77.4	+ 1.2	75.8	+ 0.9	71.8	+ 4.8	44.6	-10.8	40.6	- 1.8	28.0	+ 0.3	52.9	+ 1.0
Kansas City	29.3	+ 1.1	38.0	+ 6.8	46.6	+ 3.9	60.2	+ 5.4	62.0	- 2.8	76.5	+ 2.9	78.3	+ 0.2	78.2	+ 1.6	74.5	+ 5.6	47.6	-10.1	44.4	+ 0.7	31.8	- 0.7	55.6	+ 1.2
Kidder	23.3	- 3.6	32.1	+ 4.3	42.5	+ 1.3	57.3	+ 4.9	58.8	- 3.3	73.2	+ 0.8	76.6	- 0.3	74.8	- 0.9	71.7	+ 4.0	44.0	-12.4	38.5	- 3.9	27.8	- 1.9	51.7	- 0.9
Lexington	28.4	+ 0.9	37.5	+ 8.1	47.2	+ 4.3	60.4	+ 6.3	61.8	- 2.6	76.4	+ 3.6	78.2	+ 1.1	76.6	+ 0.6	74.2	+ 5.7	48.0	- 9.5	43.0	- 1.0	31.6	+ 0.1	55.3	+ 1.5
Liberty	....	......	....	......	....	......	....	......	....	......	....	......	75.8[h]	- 2.3	77.8[n]	+ 0.8	74.0[a]	+ 4.6	46.8[a]	-10.7	....	......	....	......	....	......
Maryville	25.8	+ 3.4	35.1	+11.0	44.8	+ 7.6	59.2	+ 9.1	60.2	- 0.9	72.9	+ 3.3	77.1	+ 1.5	74.2	+ 0.6	71.0	+ 5.6	43.8	- 9.5	40.0	+ 1.0	28.6	+ 2.3	52.7	+ 2.9
Oregon	24.5	+ 0.6	35.0	+ 6.8	44.6	+ 5.3	59.1	+ 5.2	60.0	- 3.2	72.8	+ 0.5	75.8	+ 0.2	73.8	- 1.2	70.4	+ 3.4	44.1	-10.8	39.8	- 0.5	29.2	+ 0.7	52.4	+ 0.6
St. Joseph	26.6	- 0.4	35.6	+ 5.4	45.4	+ 3.2	59.7	+ 6.0	61.4	- 2.5	75.4	+ 1.2	78.2	+ 0.6	76.3	- 0.6	73.4	+ 4.9	45.2	-11.9	41.4	- 2.7	29.5	- 0.7	54.0	+ 0.2
Tarkio	22.4	- 0.5	33.1	+ 5.1	42.9	+ 2.3	58.8	+ 6.6	60.9	- 2.4	72.8	+ 0.1	76.6	- 0.4	74.3	- 1.3	70.6	+ 4.0	43.6	-11.9	39.0	- 1.6	27.5	+ 1.6	51.9	+ 0.1
Trenton	25.6	- 1.1	33.9	+ 5.4	43.3	+ 2.1	58.0	+ 5.4	58.8	- 5.0	73.4	+ 0.8	76.5	- 0.4	73.4	- 1.8	71.4[b]	+ 4.0	44.8	-11.5	39.3	- 3.1	28.4	- 1.2	52.2	- 0.[illegible]
Section Means	25.7	- 0.3	35.0	+ 6.1	44.7	+ 3.7	58.9	+ 6.2	60.4	- 3.0	74.1	+ 1.5	77.0	- 0.2	75.4	- 0.3	72.2	+ 4.3	45.2	-11.4	40.5	- 1.8	29.1	- 1.0	53.1	+ 0.2
State means	29.7	- 0.7	38.7	+ 6.9	47.7	+ 3.9	61.0	+ 5.9	61.2	- 3.4	76.5	+ 3.0	77.9	+ 0.5	76.5	+ 0.5	74.6	+ 5.6	48.6	- 8.8	42.8	- 1.7	31.6	- 2.3	55.5	+ 0.7

Letters of alphabet indicate number of days missing from report: thus [a] one day; [b] two days, etc.

SUMMARY—*Continued from Page 50.*

SEPTEMBER.—About the warmest September of record and about one of the wettest. The first ten days was an outstanding hot period regardless of months. On and after the 10th rains were frequent and heavy. The dry weather with hot winds during the first ten days caused all crops to suffer and deteriorate, the damaged of course being, more marked in southern sections were summer drought had been locally serious. But after the rains set in they were copious, replenishing failing wells and streams and soaking the soil. The adverse feature of the wetness was the necessary suspension of farm work.

OCTOBER.—Cloudy, wet, and cold, the coldest October of record. Frost and a freeze occurred on the 10th, the second freeze followed on the 19th and the remainder was made up of frequent freezes. A snowstorm swept the State on the 27th, followed by winter cold, zero being recorded in northern border counties, and a record for this month. The farmer had a hard time of it. Wheat seeding was dragged out and delayed. Corn and forage were damaged; and all-to-gether it was a miserable month.

NOVEMBER.—The month was without any very noticeable features. Except some real winter weather from the 7th to the 9th, temperatures alternated above or below the normal for several days at a time, the values either way being relatively small. Snow was general on the 7th, and 15th, some stations receiving 5 to 7 inches. There was more rainfall than needful. In the southeast more than double the normal rainfall occurred. It was the third consecutive unfavorable month for the usual seasonal farm work, and especially for the eastern half of the State.

DECEMBER.—A general and heavy snowstorm during the first week, and some real winter cold Christmas week were the outstanding weather features of this winter month. The snowfall was unusually heavy in most central and north-central counties, and drifted badly. Railway trains were delayed, and other traffic was suspended for the time being. Much of the month was favorable for outdoor work.

IN APPRECIATION.

The public spirit, intelligence, and high sense of faithfulness to duty of the cooperative observer of the U. S. Weather Bureau, has many times been written about and commented upon. So it was meet and proper that the American Meteorological Society, when holding its annual meeting, in connection with that of the American Association for the Advancement of Science, at Kansas City, Mo., on December 28 and 29, 1925, should offer and unanimously pass the following motion:

That the American Meteorological Society express its appreciation of the services of the cooperative observers.

Evaporation Tables, Columbia, Mo.

	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
Station No. 1* (Weather Bureau)									
Total evaporation	3.772	4.067	5.321	6.194	5.336	3.699	1.306	......	29.695
Total precipitation	4.38	3.56	7.07	2.01	5.11	4.17	5.34	......	31.64
Total wind movement	1,291	830	678	557	460	597	909	......	5,250
Mean temperature	60.8	60.6	75.8	77.0	75.8	73.8	47.2	......	67.3
Station No. 2** (Univ. of Missouri Experiment Farm.)									
Total evaporation	5.163	6.254	7.451	7.874	6.451	5.550	2.064	......	40.807
Total precipitation	4.24	3.37	7.19	2.15	5.47	4.83	5.05	......	32.30
Total wind movement	2,860	1,970	2,069	1,159	1,138	1,359	1,898	......	12,452

* Observations taken at 6:45 a. m. ** Observations taken at 5:30 p. m.

Monthly Data of the State for 1925.

Month	Temperature				Precipitation				
	Mean	Departure from Normal	Maximum	Minimum	Mean	Departure from Normal	Greatest	Least	No. Days with .01 or more
January	29.7	− 0.7	65	−15	1.00	−1.03	3.31	0.08	4
February	38.7	+ 6.9	78	1	1.85	−0.30	5.11	0.45	6
March	47.7	+ 3.9	86	− 5	1.95	−1.05	5.16	0.10	5
April	61.0	+ 5.9	92	24	4.11	+0.38	8.14	0.67	10
May	61.2	− 3.4	98	24	2.14	−2.56	5.49	0.58	7
June	76.5	+ 3.0	103	46	6.10	+1.43	12.55	0.27	9
July	77.9	+ 0.5	106	46	2.71	−1.34	8.60	0.57	7
August	76.5	+ 0.5	107	45	3.45	−0.23	11.24	1.01	6
September	74.6	+ 5.6	110	45	6.46	+2.73	14.55	2.39	10
October	48.6	− 8.8	92	− 3	4.85	+2.10	11.44	1.56	10
November	42.8	− 1.7	80	− 2	2.99	+0.64	7.75	0.40	6
December	31.6	− 2.3	80	−10	1.45	−0.58	3.69	0.45	4
Year	55.5	+ 0.7	110	−15	39.78	+0.91	14.55	0.03	86

Comparative Annual Data for the State.

Year	Temperature			Precipitation	Year	Temperature			Precipitation
	Mean	Maximum	Minimum			Mean	Maximum	Minimum	
1888	52.9	111	−32	41.22	1908	56.7	102	−10	42.56
1889	54.3	107	− 9	37.91	1909	56.7	110	−20	45.16
1890	54.7	106	−19	35.71	1910	55.0	109	−24	36.86
1891	53.9	108	−11	38.04	1911	56.9	113	−19	38.94
1892	53.4	101	−11	42.76	1912	53.6	105	−36	38.68
1893	52.7	107	−20	38.19	1913	56.5	110	−12	37.47
1894	55.1	111	−35	33.18	1914	56.1	109	−18	34.72
1895	52.9	106	−26	39.30	1915	54.8	102	−24	49.62
1896	55.5	108	−10	44.63	1916	55.2	109	−29	40.33
1897	55.0	108	−16	38.82	1917	52.3	107	−23	31.94
1898	54.4	104	−20	53.67	1918	55.5	111	−25	37.16
1899	54.0	108	−32	37.32	1919	55.2	106	−23	40.05
1900	55.6	105	−16	38.34	1920	54.3	105	−10	37.17
1901	55.5	116	−29	25.28	1921	58.2	109	− 8	43.77
1902	54.1	103	−17	44.96	1922	56.8	108	− 6	39.99
1903	53.6	102	−25	40.15	1923	55.3	108	−11	41.23
1904	53.2	100	−23	41.62	1924	52.9	106	−28	40.01
1905	53.6	103	−40	45.43	1925	55.5	110	−14	39.78
1906	55.1	101	−13	37.34					
1907	55.6	109	−15	41.81	Average 38 yrs.	54.8	116	−40	39.77

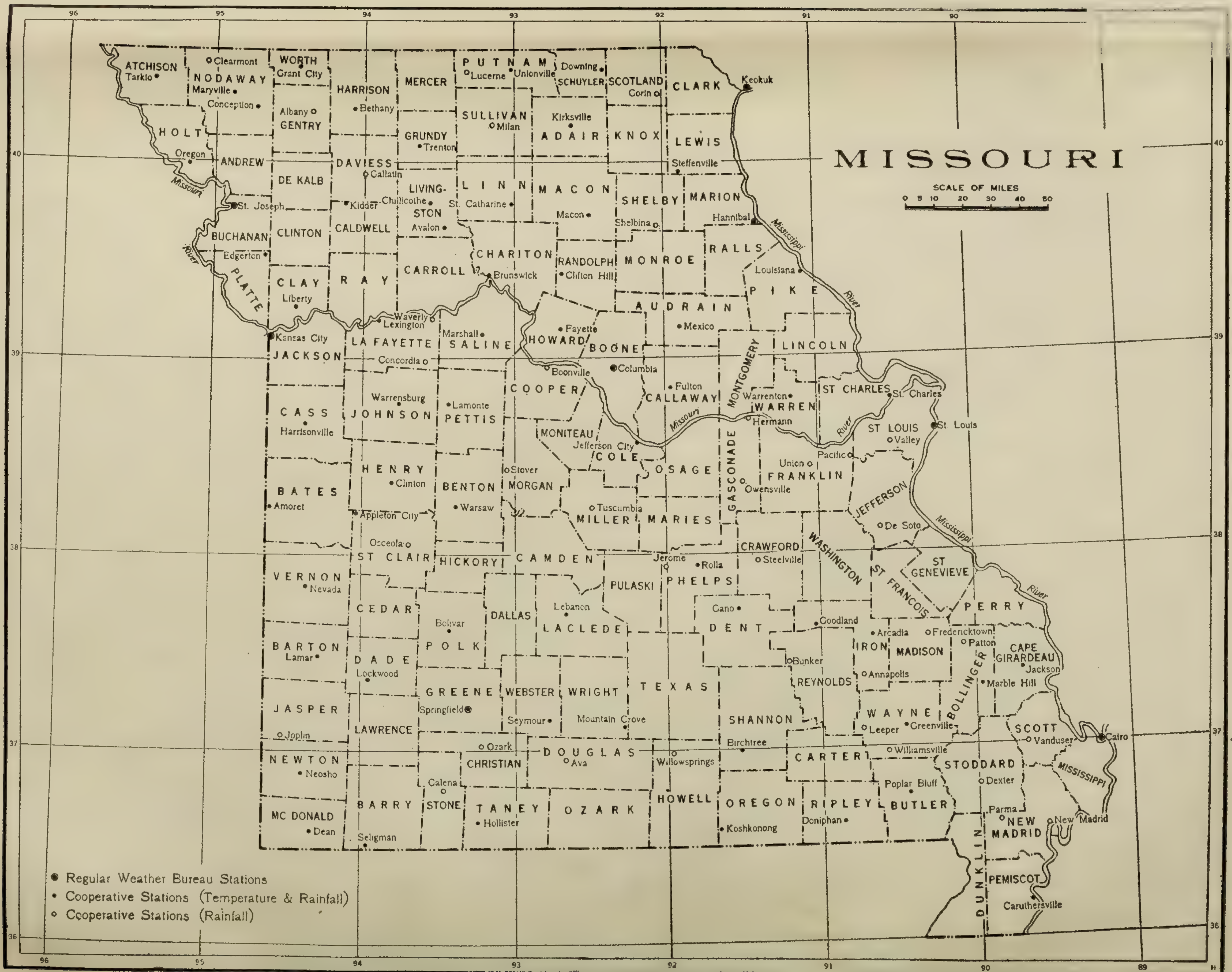
KILLING FROSTS, 1925.

Stations.	Last in Spring.	First in Autumn.	Days in Growing Season.	Stations.	Last in Spring.	First in Autumn.	Days in Growing Season.
Northeast Plain.				*Ozark Plateau (continued)*			
Brunswick	April 5	Oct. 10	188	Houston	May 25	Oct. 10	138
Clifton Hill	May 25	Oct. 10	138	Koshkonong	Mar. 16	Oct. 10	208
Columbia	Mar. 28	Oct. 10	196	Lebanon	May 25	Oct. 10	138
Downing	April 5	Oct. 10	188	Lockwood	Mar. 15	Oct. 10	209
Fayette	May 25	Oct. 10	138	Mountain Grove	May 25	Oct. 10	138
Fulton	May 25	Oct. 10	138	Neosho	May 1	Oct. 10	192
Hannibal	April 5	Oct. 10	188	Rolla	May 25	Oct. 10	138
Jefferson City	Mar. 28	Oct. 10	196	Seligman	Mar. 20	Oct. 10	204
Kirksville	May 25	Oct. 9	137	Seymour	May 26	Oct. 10	137
Louisiana	May 25	Oct. 10	138	Springfield	Mar. 15	Oct. 10	209
Macon	May 25	Oct. 9	137	*Southwest Plain.*			
Mexico	May 25	Oct. 10	138	Amoret	May 25	Oct. 10	138
St. Catharine	April 5	Oct. 10	188	Appleton City	Mar. 19	Oct. 10	205
St. Charles	May 25	Oct. 10	138	Clinton	Mar. 28	Oct. 10	196
St. Louis (1)	Mar 16	Oct. 27	225	Harrisonville	Mar. 20	Oct. 10	204
St. Louis (2)	Mar. 16	Oct. 19	217	Lamar	Mar. 28	Oct. 10	196
Steffenville	May 25	Oct. 10	138	Lamonte	May 25	Oct. 10	138
Unionville	May 25	Oct. 9	137	Marshall	May 25	Oct. 10	138
Warrenton	May 25	Oct. 10	138	Nevada	Mar. 30	Oct. 10	194
Keokuk, Iowa	Mar. 19	Oct. 10	205	Warrensburg	Mar. 19	Oct. 10	205
Southeast Lowlands				Warsaw	May 25	Oct. 10	138
Caruthersville	....	Oct. 30	....	*Northwest Plateau.*			
Doniphan	Mar. 28	Oct. 19	205	Avalon	May 25	Oct. 9	137
Jackson	April 2	Oct. 10	191	Bethany	May 25	Oct. 9	137
Marble Hill	Mar. 28	Oct. 10	196	Chillicothe	May 25	Oct. 9	137
Poplar Bluff	Mar. 27	Oct. 9	196	Conception	Mar. 30	Oct. 9	193
Cairo, Ill.	Mar. 15	Oct. 20	209	Edgerton	May 25	Oct. 9	137
Ozark Plateau.				Grant City	May 25	Oct. 9	137
Arcadia	April 6	Oct. 10	187	Kansas City	Mar. 15	Oct. 10	209
Birchtree	Mar. 30	Oct. 10	194	Kidder	May 25	Oct. 9	137
Bolivar	Mar. 15	Oct. 10	209	Lexington	Mar. 30	Oct. 10	194
Dean	April 30	Oct. 10	163	Liberty	....	Oct. 9	....
Eldon	May 25	Oct. 9	137	Maryville	Mar. 31	Oct. 9	192
Farmington	May 25	Oct. 10	138	Oregon	Mar. 27	Oct. 9	196
Gano	May 25	Oct. 10	138	St. Joseph	Mar. 21	Oct. 10	203
Goodland	May 25	Oct. 10	138	Tarkio	May 25	Oct. 9	137
Greenville	April 6	Oct. 10	187	Trenton	Mar. 30	Oct. 10	194
Hollister	Mar. 31	Oct. 10	193	....	....	....	....
....	....	....	....	....	....	....	....

WBO, St. Louis, 2-19-26-1200.

CO-OPERATIVE OBSERVERS

Stations	Name	Stations	Name	Stations	Name
Albany	Carl Gillespie	Greenville	A. M. Rhodes	Oregon	
Amoret	Andrew Rood	Hailey	A. W. Madison	Osceola	John T. Fields
Appleton City	W. G. Bigelow	Hannibal	U. S. Weather Bureau	Owensville	Charles S. Hutton
Arcadia	Arcadia College	Harrisonville	John H. Patterson	Ozark Beach	S. E. Gurd
Avalon	F. G. Ashbaugh	Hermann	J. G. Rebsamen	Pacific	Mark Waters
Bethany	Owen Ross	Hollister	Mrs. W. P. Chapmann	Parma	H. W. Kendall
Birchtree	V. H. Kirkendall	Jackson	John G. Putz	Patton (near)	S. P. Presnal
Bolivar	Southwest Baptist College	Jefferson City	Miss Emma Swift	Poplar Bluff	J. H. Wolpers
Boonville	J. H. Hutchison	Jerome	C. F. Brockman	Rolla	Prof. Elmo G. Harris
Brunswick	O. K. Benecke	Joplin	P. J. Sergeant	St. Catharine	L. D. Baker
Cape Girardeau	D. L. Albert	Kansas City	U. S. Weather Bureau	St. Charles	L. C. Saeger
Caruthersville	P. W. Dillman	Kidder	Linn Terry	St. Joseph	U. S. Weather Bureau
Clearmont	P. B. Gray	King City	D. B. Oliver	St. Louis(1)	U. S. Weather Bureau
Clifton Hill	Dr. A. J. Bradsher	Kirksville	Prof. J. S. Stokes	St. Louis(2)	St. Louis University
Chillicothe	Wm. J. Olenhouse	Koshkonong	R. M. Hitt	Seligman	Floyd E. Fawyer
Clinton	Dr. A. E. Derwent	Lamar	Jesse A. Mann	Seymour	Ira H. Hailey
Columbia	U. S. Weather Bureau	Lamonte	J. E. Wheeler	Shelbina	J. C. Jewett
Conception	Fr. Adelhelm Hess	Lebanon	Mrs. Tom E. Mulcare	Springfield	U. S. Weather Bureau
Concordia	A. H. Schlapper	Leeper	Charles E. Church	Steelville	R. M. Reeves
Dean	H. E. Dean	Lexington	E. G. Loomis	Steffenville	Frank Hall
Dexter	W. A. Sherwood	Liberty		Stover	H. Kyle Vickrey
Doniphan	W. W. Martin	Lockwood	C. S. Crow	Tarkio	Albert Volker
Downing	E. E. St. Clair	Louisiana	J. T. Farrell	Trenton	W. H. Estes
Edgerton	Fred L. Stiff	Lucerne		Tuscumbia	C. B. Wright
Eldon	E. H. Shepherd	Macon	W. C. Brown	Union	J. William Keller
Farmington	Robert Forsyth	Marble Hill	R. A. DeWitt	Unionville	George W. Davis
Fayette	J. D. Settle	Marshall	Dr. Wm. H. Black	Valley Park	Mrs. Rachel Harris
Fredericktown	W. H. Jones	Maryville	J. R. Brink	Warrensburg	E A. Markey
Fulton	Chamber of Commerce	Mexico	Mrs. Aobie Snoddy	Warrenton	Prof. A. W. Ebeling
Galena	M. H. Stewart	Milan	J. W. Rogers	Warsaw	Everet Martin
Gallatin	Marguerite Lukehart	Morehouse	John A. Spence	Waverly	Florence C. Palmer
Gano	A. C. Leach	Mountain Grove	Missouri Fruit Exp. Station	Williamsville	C. M. Becker
Goodland	F. M. Adams	Neosho	U. S. Fisheries Station	Willow Springs	Fred W. Green
Gorin	J. W. Pulliam	Nevada	George A. Kaupp		
Grant City	B. F. Locke	New Madrid	Miss Josie Smith		


MISSOURI
SCALE OF MILES
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● Regular Weather Bureau Stations
• Cooperative Stations (Temperature & Rainfall)
○ Cooperative Stations (Rainfall)
96
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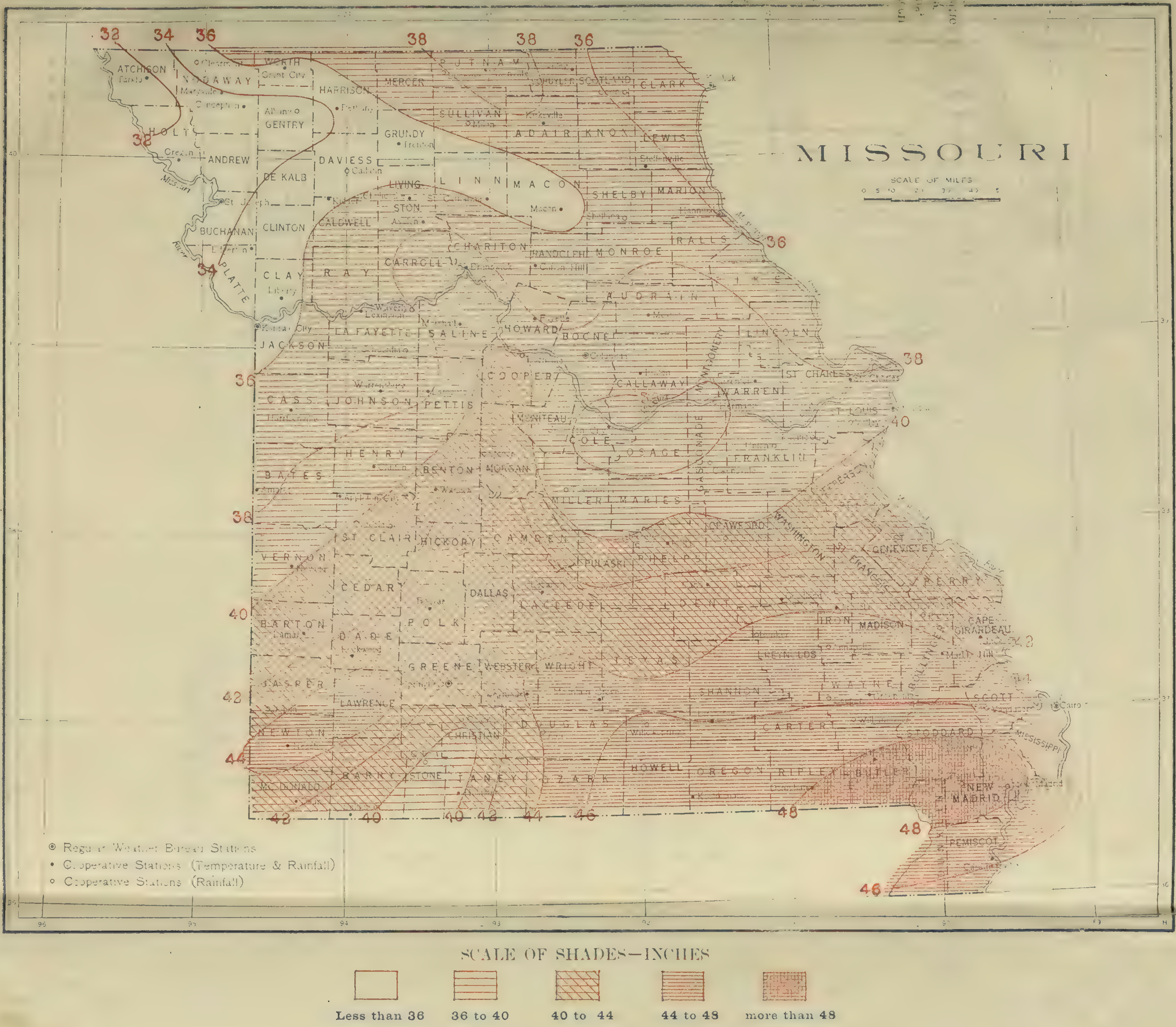
ATCHISON
Tarkio
NODAWAY
Clearmont
Maryville
Conception
WORTH
Grant City
HARRISON
Bethany
MERCER
PUTNAM
Lucerne
Unionville
Downing
SCHUYLER
SCOTLAND
Corin
CLARK
Keokuk
HOLT
Oregon
ANDREW
GENTRY
Albany
GRUNDY
Trenton
SULLIVAN
Milan
ADAIR
Kirksville
KNOX
LEWIS
Steffenville
DE KALB
DAVIESS
Gallatin
LIVINGSTON
Chillicothe
Kidder
LINN
St. Catharine
MACON
Macon
SHELBY
Shelbina
MARION
Hannibal
BUCHANAN
St. Joseph
Edgerton
CLINTON
CALDWELL
Avalon
CHARITON
Brunswick
RANDOLPH
Clifton Hill
MONROE
RALLS
PLATTE
CLAY
Liberty
RAY
CARROLL
AUDRAIN
Mexico
PIKE
Louisiana
Waverly
Lexington
Kansas City
JACKSON
LA FAYETTE
Concordia
SALINE
Marshall
HOWARD
Fayette
BOONE
Columbia
MONTGOMERY
LINCOLN
Boonville
COOPER
CALLAWAY
Fulton
Warrenton
WARREN
ST CHARLES
St. Charles
CASS
Harrisonville
JOHNSON
Warrensburg
PETTIS
Lamonte
MONITEAU
Jefferson City
COLE
Hermann
ST LOUIS
Valley
St Louis
HENRY
Clinton
BENTON
Warsaw
MORGAN
Stover
OSAGE
GASCONADE
Owensville
FRANKLIN
Union
Pacific
JEFFERSON
De Soto
BATES
Amoret
Appleton City
MILLER
Tuscumbia
MARIES
Osceola
ST CLAIR
HICKORY
CAMDEN
Jerome
Rolla
PHELPS
CRAWFORD
Steelville
WASHINGTON
ST FRANCOIS
ST GENEVIEVE
VERNON
Nevada
CEDAR
PULASKI
Gano
PERRY
DALLAS
Lebanon
LACLEDE
DENT
Goodland
Arcadia
Fredericktown
Patton
BARTON
Lamar
Bolivar
POLK
IRON
MADISON
CAPE GIRARDEAU
Jackson
DADE
Lockwood
Bunker
REYNOLDS
Annapolis
BOLLINGER
Marble Hill
GREENE
Springfield
WEBSTER
WRIGHT
TEXAS
JASPER
Joplin
LAWRENCE
Seymour
Mountain Grove
SHANNON
WAYNE
Leeper
Greenville
SCOTT
Vanduser
Cairo
Ozark
CHRISTIAN
DOUGLAS
Ava
Willowsprings
Birchtree
CARTER
Williamsville
STODDARD
Dexter
NEWTON
Neosho
Galena
STONE
BARRY
TANEY
Hollister
OZARK
HOWELL
OREGON
Koshkonong
RIPLEY
Doniphan
BUTLER
Poplar Bluff
Parma
NEW MADRID
New Madrid
MISSISSIPPI
MC DONALD
Dean
Seligman
DUNKLIN
PEMISCOT
Caruthersville
Missouri
River
Mississippi
River

NORMAL ANNUAL PRECIPITATION FOR MISSOURI

Computed from all past records



MS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

oL. XXX. Columbia, Mo., January, 1926. No. 1.

GENERAL SUMMARY.

The opening month of 1926, in Missouri, was not noticeable for any ry marked or outstanding weather feature. There were only two real nter cold snaps, and these were of less than a week's duration each. ıe first week was much milder than normal, followed by the first cold ap on the 7th. By the 14th the weather was mild again and con- ued moderate up to the 19th. The second cold wave, rather more vere than the first, overspread the State, beginning on the 20th. Mini- ım records of a few years' standing were broken, particularly in the ıtheastern part of the State. There was a rapid and general reaction moderate weather on and after the 26th, the maximum for the nth, 70 degrees, occurring on the 30th.

Precipitation was nearly normal. While mostly light, it was rather frequent for any but the usual outdoor activities, though this side of weather was perhaps less marked in the northwestern section. Tak- the whole month, precipitation was more than normal in the west- ı third, and below normal elsewhere, though there was more actual isture outside of the western part. This comes about, of course, be- ıse of the respective normal values.

nowfall was heavy over the southern-third, scanty in central, and ly moderate over the northern half of the State. Traffic in the Ozark ın was suspended for short time.

Vinter wheat came through the month fairly well; it is small and n in eastern sections, because it was seeded late. There was little or activity on the farms, outside the usual daily chores. Fruit buds e damaged by cold locally. The State Highway work progressd with y slight interruptions. Livestock did well.

TEMPERATURE.

The monthly mean temperature for the State, as deduced from obser- ions of 65 stations, was 32.7 degrees, or about 2.3 degrees warmer n normal. Except quite a sudden and decided change to colder on 22d. and 23d, temperature changes were unimportant as a rule. [illegible] ve swept the State, and was of quite unusual severity [illegible] ern section; minimum readings of 12 to 18 below zero [illegible] and one station, Goodland, recorded 20 below zero. ue from this cold snap relatively mild periods prevailed for a week time during the first and second decades, and also at the closing s of the month. The maximum for the month, 70 degrees, occurred the 30th. There were 25 days with minimum of 32 degrees or lower, only one with zero or lower.

PRECIPITATION.

he [illegible] pitation for the State, as determined from the rec- [illegible] was 1.90 inches. This is only 0.13 inch less than [illegible] age. Over the northeastern plain and southeastern [illegible] n was frequent, falling at about three day intervals, amounts, while quite substantial at times, were not excessive. In Ozarks most of the precipitation fell on the 2d, and 3d, 17-18th, , and 31st. This also would hold true for the southwestern plain, for the northwestern plateau the periods were not so well defined, ppreciable snow flurries falling in between the more outstanding ter periods.

now was heavy in the Ozark Plateau and northern part of the south- lowlands. Maximum depths ranged up to 18 inches at points in Ozarks, while 7 to 11 inches were general to the eastern border. In northern sections depths were from 2 to 5 inches, and somewhat over the central part of the State.

MISCELLANEOUS PHENOMENA.

gs, dense.---On the 3d, 4th, and 5th.

Halos, solar.---2d, 6th, 7th, 8th, 12th, 15th, and 19th.

Halos, lunar.---1st, 2d, 8th, 21st, 22d, 25th, 26th, 30th, and 31st.

SPECIAL NOTES.

Sleet occurred at Neosho on the 17th, and at Lexington on the 20th, and at Amoret, Louisiana, Jackson, Morehouse, Arcadia, Farmington, Mountain Grove, Seymour, and Nevada on the 21st. No damage reported.

At Appleton City, snowdrifts from the storm of December 4, remained on the ground until January 29.

It is reported that the low temperatures of the 23d, probably killed most of the peach buds at Farmington and other adjacent points.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	30.08	82	72	127	42	6,924	9.3	30	nw.	12
Hannibal	30.09	76	..	...	..	7,277	9.8	29	nw.	27
Kansas City	30.08	81	71	174	57	8,810	11.8	35	n.	13
St. Joseph	30.07	88	75	136	45	6,668	9.0	45	nw.	27
St. Louis	29.98	78	64	127	42	10,073	13.5	44	nw.	27
Springfield	30 09	84	72	141	46	8,225	11.1	36	s.	30
Cairo, Ill	30.10	83	65	...	..	7,038	9.5	38	n.	21
Keokuk, Iowa	30.08	79	69	134	44	6,731	9.0	32	nw.	27

COMPARATIVE DATA FOR JANUARY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	21.5	−8.7	74	−32	1.91	−0.08	......	....	6	....	....	....
1889	31.8	+1.6	69	− 2	2.36	+0:37	......	....	6	....	....	....
1890	33.8	+3.6	81	−19	4.25	+2.26	......	....	9	....	....	....
1891	34.1	+3.9	74	− 1	1.52	−0.47	......	4.3	6	....	....	....
1892	24.0	−6.2	67	−25	1.80	−0.19	......	....	4	14	8	9
1893	22.5	−7.7	66	−14	0.45	−1.54	0.90	2.4	3	9	11	11
1894	31.4	+1.2	77	−35	2.21	−0.22	2.96	2.7	5	13	9	9
1895	24.7	−5.5	78	−22	1.49	−0.50	2.20	9.4	5	14	8	9
1896	32.9	+2.7	71	− 9	1.17	−0.82	2.44	3.1	4	10	7	14
1897	28.4	−1.8	72	−16	4.90	+2.91	6.95	4.0	8	12	7	12
1898	34.3	+4.1	75	−10	3.98	+1.99	3.35	8.4	9	11	8	12
1899	30.2	0.0	70	−21	1.55	−0.44	2.40	4.0	6	12	8	11
1900	34.5	+4.3	77	− 9	1.22	−0.77	2.30	0.2	4	14	7	10
1901	35.0	+4.8	72	−11	1.30	−0.69	2.95	0.8	4	17	7	7
1902	30.1	−0.1	72	−17	1.23	−0.76	3.37	6.9	5	16	7	8
1903	31.4	+1.2	73	−11	1.36	−0.63	1.71	5.0	6	13	6	12
1904	27.0	−3.2	66	−23	2.85	+0.86	4.74	7.4	8	14	6	11
1905	22.3	−7.9	72	−19	1.79	−0.20	2.52	6.8	8	14	6	11
1906	35.6	+5.4	76	− 8	3.64	+1.65	3.00	9.2	6	14	5	12
1907	34.3	+4.1	79	− 5	5.10	+3.11	4.42	2.8	12	7	6	18
1908	34.4	+4.2	68	−10	1.51	−0.48	2.13	3.6	5	19	5	7
1909	33.7	+3.5	83	−20	2.17	+0.18	2.10	6.5	7	6	7	18
1910	32.3	+2.1	78	−24	1.83	−0.16	3.98	3.5	5	13	6	12
1911	34.6	+4.4	78	−19	1.20	−0.70	3.03	0.7	5	8	7	16
1912	20.0	−11.3	70	−36	1.06	−1.20	2.56	6.5	4	14	7	10
1913	33.1	+1.8	74	−12	3.67	+1.30	5.30	2.6	8	13	6	12
1914	38 1	+6.9	78	− 1	1.42	−0.92	2.00	1.0	4	12	7	12
1915	29.1	−2.2	76	−24	2.92	+0.59	3.10	5.4	8	12	5	14
1916	31.6	+0.7	72	−24	7.36	+5.16	4.65	3.4	12	9	4	18
1917	32.9	+2.5	76	−10	1.52	−0.64	2.50	2.3	5	15	7	9
1918	16.4	−14.0	67	−24	1.68	−0.71	3.20	16.6	7	12	7	12
1919	34.0	+3.6	70	−23	0.40	−1.88	3.05	1.4	2	20	5	6
1920	28.6	−1.4	72	− 5	1.57	−0.65	4.15	5.7	5	15	5	11
1921	37.1	+7.2	74	− 1	1.88	−0.38	1.15	5.4	6	10	7	14
1922	29.5	−0.6	66	− 6	1.21	−1.05	2.95	3.9	5	14	5	12
1923	39.2	+8.5	75	3	2.72	+1.81	3.52	0.6	6	12	7	12
1924	24.9	−5.5	68	−25	1.54	−0.49	1.78	5.7	7	14	5	12
1925	29.7	−0.7	65	−15	1.00	−1.03	2.10	4.7	4	15	7	9
1926	32.7	+2.3	70	−20	1.90	−0.13	2.51	4.2	6	11	7	13

Climatological Data for January, 1925.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip. .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	30.2	+ 3.4	62	30	− 2	22†	36	1.22	−0 41	0.63	2.3	8	11	0	20	ne.	O. K. Benecke
Clifton Hill	Randolph	731	26	31.4	+ 2.7	61	30	− 5	22	43	1.61	+0.01	0.60	2.5	11	4	11	16	......	Dr. A. J. Bradsher
Columbia	Boone	748	35	32 6	+ 3.4	63	30	0	22	32	1.43	−0.80	0.47	1.3	12	8	7	16	n.	U. S. Weather Bureau
Downing	Schuyler	878	4	28.8	......	58	30	−10	22	37	0.72	−1.01	0.33	3.6	6	10	8	13	w.	E. E. St. Clair
Fayette	Howard	661	45	27.8^{a}	+ 0.6	57	30	− 2	22†	43	1.89	−0.10	0.60	3.2	5	..	..	..	......	J. D. Settle
Fulton	Callaway	818	37	31.0	+ 1.3	62	19†	1	22†	34	0.99	−1.36	0.43	1.5	9	12	9	10	......	Chamber of Commerce
Gorin	Scotland	700	38	....	......	..	..	....	..	..	0.92	−0.63	0.73	1.9	3	7	5	19	sw.	J. W. Pulliam
Hannibal	Marion	534	33	30.9	+ 3.8	60	30	− 5	22	33	1.44	−0.76	0.54	6.3	13	7	7	17	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	37	31.7	+ 1.9	63	19†	2	22	37	1.08	−1.14	0.42	0.7	9	15	1	15	s.	Miss Emma Swift
Kirksville	Adair	969	36	28.8^{a}	+ 3.9	56	30	−10	22	37	0.84	−0.69	0.23	4.0	7	10^{a}	1^{a}	19^{a}	sw.	Prof. J. S. Stokes
Louisiana	Pike	469	31	32.8	+ 4.9	59	30	− 2	22	36	1.85	−0.17	0.84	5.2	10	14	6	11	w.	J. T. Farrell
Macon	Macon	875	26	28.5	0.0	60	30	− 8	22†	43	1.46	−0.19	0.52	2.7	10	15	8	8	se.	W. C. Brown
Mexico	Audrain	809	36	29.8	+ 1.5	60	30	− 2	12†	40	1.11	−0.94	0.46	3.5	9	15	0	16	w.	Mrs. Abbie Snoddy
St. Catharine(near)	Linn	800	14	30.3	+ 3.9	57	30	− 5	22	33	1.38	+0.14	0.64	5.4	9	7	9	15	sw.	L. D. Baker
St. Charles	St. Charles	456	37	34.3	+ 3.2	64	19	1	22	36	1.37	−0.90	0.45	2.2	6	8	8	15	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	34.6	+ 3.4	61	19	3	22	34	1.69	−0.58	0.81	3.1	8	10	6	15	sw.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	34.0	+ 3.8	61	19	3	22	31	1.57	−1.50	0.80	2.1	11	11	5	15	w.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	....	..	..	1.40	−0.32	0.51	4.9	8	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	27	30.4	+ 2.6	57	30	− 9	22	36	1.85	−0.31	0.68	3.0	6	6	14	11	s.	Frank Hall
Unionville	Putnam	1,062	32	28.8	+ 5.3	58	30	−11	22	38	1.34	−0.50	0.90	4.0	5	8	5	18	sw.	Geo. W. Davis
Warrenton	Warren	816	43	34.1	+ 5.1	66	19	− 1	22	39	1.19	−1.19	0.42	4.0	8	11	8	12	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	28.8	+ 3.9	56	30	− 6	22	37	1.03	−0.66	0.59	5.8	12	8	8	15	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	31.0	+ 3.1	66	19	−11	22	43	1.34	−0.64	0.90	3.3	8	10	6	15	sw.	
Southeast Lowlands.																				
Caruthersville	Pemiscot	265	29	38.6	− 0.4	62	18	11	22	28	5.55	+0.80	1.50	0.7	8	13	7	11	......	L. W. Dillman
Doniphan	Ripley	344	21	35.6	− 0.6	61	19	− 3	23	31	1.54	−2.67	0.75	2.0	5	7	18	6	nw.	W.W. Martin
Jackson	Cape Girardeau	428	34	32.2	− 1.8	57	19	−13	23	36	2.54	−1.18	0.70	11.0	9	8	3	20	s	John G. Putz
Marble Hill	Bollinger	470	30	35.3	+ 0.5	62	19	−13	23	42	2.64	−0.89	1.00	6.4	7	8	7	16	n.	R.A. DeWitt
Morehouse	New Madrid	289	24	....	......	..	..	....	..	..	4.04	−0.19	2.51	4.5	7	14	6	11	n.	John A. Spence
Parma	New Madrid	281	4	....	......	..	..	....	..	..	3.70	......	2.15	5.0	5	..	..	..	......	H. W. Kendall
Patton	Bollinger	500	16	....	......	..	..	....	..	..	2.00	−1.05	0.60	4.0	4	..	..	..	...	George F. Ellis.
Poplar Bluff	Butler	339	21	36.4	− 0.2	65	19	− 4	22	48	3.40	−0.57	1.00	3.5	6	15	7	9	w.	J. H. Wolpers
Cairo, Ill.	Alexander, Ill	359	50	36 8	+ 1.9	62	19	8	22	32	3.50	−0.32	1.69	6.0	9	12	4	15	s.	U. S. Weather Bureau
Section means and	extremes	....	..	35.8	− 0.1	65	19	−13	23	48	3.21	−0.76	2.51	4.8	7	11	7	13	n.	
Ozark Plateau.																				
Arcadia	Iron	926	44	31.6	− 0.5	63	19	−18	23†	53	1.38	−1.84	0.70	8.0	5	14	1	16	nw.	Arcadia College
Birchtree	Shannon	1,000	30	35.8	+ 1.4	64	19	− 9	23	39	2.16	−0.90	1.20	11.0	4	15	6	10	se.	V. H. Kirkendall
Bolivar	Polk	1,071	31	34.2	+ 0.3	62	19†	3	22†	33	2.07	+0.18	0.56	4.3	6	9	7	15	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	65	19	....	..	..	2.51	+0.27	1.30	5.5	4	19	2	10	s.	H. E. Dean
Eldon	Miller	934	29	32.4^{c}	+ 1.0	62	30	3	22	36	1.30	−0.24	0.52	0.9	8	12^{b}	5^{b}	12^{b}	sw.	E. H. Shepherd
Farmington	St. Francois	918	14	35.1	+ 2.3	64	19	−12	23	35	2.19	−0.16	1.03	7.0	5	11	9	11	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	34.6	+ 1.7	63	2†	− 6	23	34	2.36	−0.49	0.78	8.7	6	10	10	11	nw.	A. C. Leach
Goodland	Iron	1,000	31	33.8	+ 1.2	65	19	−20	23	51	1.74	−1.13	0.90	9.0	5	12	9	10	s.	F. M Adams
Greenville	Wayne	381	3	34.0	......	60	19†	−14	23	43	2.51	......	0.90	4.0	5	14	3	14	n.	Wm. P. Owens
Hailey	Barry	1,350	0	....	......	..	..	....	..	..	3.05	......	1.32	12.0	5	14	9	7	w.	A. W. Madison
Hollister	Taney	735	38	36.6	+ 0.6	65	16†	−16	22	46	2.90	+0.29	1.30	18.0	3	14	6	11	sw.	Mrs. W. P. Chapman
Houston	Texas	1,280	30	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	...	Hugh Stone
Koshkonong	Oregon	958	24	38.8	+ 2.3	70	30	1	22	38	2.61	−0.93	0.98	5.5	5	16	9	6	sw.	R. M. Hitt
Lebanon	Laclede	1,265	37	32.2	− 0.8	68	19	− 5	22	41	1.41	−1.04	0.60	3.0	4	13	6	12	w.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	34.0	+ 0.7	56	29	8	23	29	1.96	+0.30	1.59	3.2	4	13	4	14	sw.	C. S. Crow
Mountain Grove	Wright	1,463	24	32.6	− 0.6	64	19	− 4	23	37	2.05	−0.82	0.65	8.0	7	11	11	9	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	36.8	+ 1.7	65	19	− 6	23	41	2.29	−0.21	1.12	5.0	6	14	4	13	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	35.8	+ 4.5	65	19	− 1	23	40	2.15	−0.30	0.70	2.0	5	14	11	6	sw.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	36.4	+ 1.7	62	19	− 1	22†	30	2.29	+0.05	1.20	10.0	3	13	8	10	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,642	19	34.0	− 0.3	65	19	−15	23	39	2.34	−0.36	0.63	7.4	6	12	9	10	sw.	Ira H. Hailey
Springfield	Greene	1,350	37	34.0	+ 0.5	62	19	1	23	27	2.28	−0.38	0.84	6.9	10	10	10	11	sw.	U. S. Weather Bureau
Section means and	extremes	.....	..	34.6	+ 1.0	70	30	−20	23	51	2.18	−0.43	1.59	7.0	5	13	7	11	sw.	
Southwest Plain.																				
Amoret	Bates	831	18	34.0	+ 3.5	57	30	3	12	33	2.29	+1.00	0.68	2.0	7	14	5	12	sw.	Andrew Rood
Appleton City	St. Clair	853	31	35.0	+ 3.7	61	30	4	22	30	1.65	−0.18	0.60	0.4	7	10	14	7	sw.	W. G. Bigelow
Clinton	Henry	765	32	35.3	+ 3.9	62	30	3	22	33	1.23	−0.75	0.75	T.	3	12	7	12	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	30.9	+ 3.7	56	18†	0	22†	38	1.37	−0.23	0.70	0.5	5	7	0	24	nw.	John H. Patterson
Lamar	Barton	980	38	33.4	+ 1.0	61	30	6	23†	37	1.94	+0.24	0.63	1.0	5	10	9	12	sw.	Jesse A. Mann
Lamonte	Pettis	867	24	33.0	+ 4.3	64	30	0	22	33	3.71	+1.93	2.00	1.0	7	6	9	16	sw.	J. E. Wheeler
Marshall	Saline	779	36	32.2	+ 4.6	63	30	− 2	22	32	1.86	+0.04	0.77	1.5	9	4	11	16	nw.	Dr W. H. Black
Nevada	Vernon	862	32	35.6	+ 3.9	62	30	6	12†	30	1.80	−0.17	0.65	0.3	5	14	6	11	sw.	George A. Kaupp
Warrensburg	Johnson	878	38	34.6	+ 5.7	61	30	1	22	34	1.65	−0.14	0.70	1.5	8	11	6	14	sw.	L. B. Johnston
Warsaw	Benton	687	25	38.2	+ 5.4	65	26	5	12†	44	0.97	−1.41	0.48	1.0	7	15	4	12	w.	Everett Martin
Section means and	extremes	.....	..	34.2	+ 4.0	65	26	− 2	22	44	1.85	+0.03	2.00	0.9	6	10	7	14	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	35	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	F. G. Ashbaugh
Bethany	Harrison	916	33	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	Owen Ross
Chillicothe	Livingston	779	16	28.2	− 0.6	57	30	− 8	22†	45	....	......	....	....	..	13	5	13	ne.	Wm. J. Olenhouse
Conception	Nodaway	980	36	28.4	+ 3.6	55	18†	−11	22	35	1.15	+0.20	0.70	3.5	4	10	8	13	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	31.9^{c}	......	54	1	− 6	22	32	1.45	+0.18	0.53	4.1	10	14	0	17	s.	Fred L. Stiff
Grant City	Worth	1,134	21	29.0	+ 4.1	56	18	−12	22	45	0.62	−0.34	0.28	3.0	3	13	8	10	sw.	B. F. Locke
Kansas City	Jackson	963	36	32.4	+ 4.2	56	30	0	22	32	1.56	+0.43	0.74	4.2	12	10	8	13	sw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	27.3	+ 0.4	53	30	−10	22†	44	1.87	+0.57	0.70	5.0	5	11	10	10	sw.	Linn Terry
King City	Gentry	1095	0	....	......	..	..	....	..	..	1.08	......	0.67	1.6	4	..	..	..	......	D. B. Oliver
Lexington	Lafayette	688	40	32.1	+ 4.6	58	30	− 1	22	31	1.04	−0.53	0.76	1.5	5	9	10	12	sw.	Edwin G Loomis
Liberty	Clay	859	35	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	..	W. F. Aull
Maryville	Nodaway	1,169	35	29.0	+ 6.6	57	18	− 7	22	35	1.09	+0.01	0.72	3.0	7	13	3	15	n.	J. R. Brink
Oregon	Holt	1,048	69	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	...	Mrs. Tom Curry
St. Joseph	Buchanan	967	17	30.0	+ 3.0	54	18	− 5	22	32	1.45	+0.65	0.83	2.8	8	9	9	13	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	22	27.4	+ 4.5	56	18	−10	22	39	0.96	+0.17	0.62	2.5	5	11	4	16	nw.	Albert Volker
Trenton	Grundy	822	29	29.6	+ 2.9	53	30	− 8	22	31	1.41	+0.03	0.64	3 0	6	9	13	9	s.	W. H. Estes
Section means and	extremes	.....	..	29.6	+ 3.4	58	30	−12	22	45	1.24	+0.14	0.83	3.1	6	11	7	13	sw.	
State means and	extremes	.....	..	32.7	+ 2.3	70	30	−20	23	51	1.90	−0.13	2.51	4.2	6	11	7	13	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano Salem, R. F. D. No. 5.

Daily Precipitation for January, 1926.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri		T.	.55									T.					.05	.25		T.	.27				T.		.07				T.	1.19
Brunswick‖	Grand			.63	.03													.04	.20			.13				.12		.03				.04	1.22
Clifton Hill	Chariton	.04		.60						.02		.01	.01					.20	.10		.25					.12	.01					.25	1.61
Columbia***	Missouri	.01	.02	.42	T.					.03	T.	T.	.02	T.			T.	.21	.08		.11				.02		T.	.04			.01	.46	1.43
Downing	Mississippi	T.		.33	.04					T.		T.	T.	T.					.15		T.	.15					.04	T.				.01	0.72
Fayette‖	Missouri			.52															.12							.50		.60				.15	1.89
Fulton‖	....do			.43					.04					.03			T.	.17	.09		.07	.06				T.		.04				.06	0.99
Gorin	Mississippi			.73										T.							.03						.16	T.				T.	0.92
Hannibal***	....do	T.	.01	.53	T.				.01		T.	.02	.03	T.			T.	.18	.04		.30	T.			.17	.07	.06	.01				.01	1.44
Hermann‖	Missouri			.51	.02					.01	T.	.01	T.	.01				.10	.27		.08	.08	.01			T.		.09					1.19
Jefferson City‖	....do			.42						T			.05					.10	.13		.05	.15				.02		.03				.13	1.08
Kirksville	Mississippi	T.		.07								.05	T.		T.				.20	.04	T	.15				.10						.23	0.84
Louisiana	....do	T.	.02	.84		T.			.02			T.	.03					.23	.27		.02					.15	.03	.24					1.85
Macon‖	Chariton	.06		.52	.10					.03		.02							.14			.27				.16	.04					.12	1.46
Mexico‖	Mississippi			.46						.05		.02	T.					.06	.11			.16				.10		.12				.03	1.11
Milan‖	Grand			.80	.23						T.								.20				.20			.05					.40	.10	1.98
Pacific‖	Meramec			.48	.02					.04				.03				.15	.52	.02	.01	.13	.15					.05					1.60
St. Catharine (near)	Grand	T.	T.	.64	.02							.02	T.	T.				T.	.30		.10	.10				.14	T.	.02				.04	1.38
St. Charles	Missouri	T.		.45					T.	T.		T.		.02				.30	.40		T.	.05				T.	T.	.15				T.	1.37
St Louis (1)***	Mississippi		.12	.30					T.	T.		T.	.01	T.			T.	.40	.47		.06	.24			T.	T	T.	.09				T.	1.69
St. Louis (2)	....do	T.	T.	.35					.02			.02	T.	.02				.52	.28		.14	.17					.02	.03				T.	1.57
Shelbina‖	....do	.06		.51	.03							.02						.08				.32				.33						.05	1.40
Steffenville	....do			.68							T.	T.	T.				T.	T.	.20		.50	.14					.07	T.				.26	1.85
Union‖	Meramec			.54						.02	T.		T.	.01				.13	.48			.04	.10					.02					1.34
Unionville	Chariton	.10		.75	.15								T.						.04			.20					.10	T.				T.	1.34
Valley Park‖	Meramec			.30	T.					T.		T.	T.	T.	T.			T.	.70		T.	T.	.20					.10					1.30
Warrenton	Mississippi			.42						.15		T.		.06			T.	.10	.25		.09	.05				T.	T.	.07				T.	1.19
Keokuk, Ia.***	....do	.01	T.	.59					.06		.03	T.	.02	T.			T.	.04	.04		.09	T.				.03	.10	.01				.01	1.03
Southeast Lowlands																																	
Cape Girardeau‖	Mississippi			.29	.05				T.	T.				T.				.32	.78	.02		.70	.52				T.	.05				.11	2.84
Caruthersville	....do			.30					.05								1.50		.55		1.43	1.50					.02					.20	5.55
Doniphan	Black			.15													.35	.75				.18										.11	1.54
Jackson	Mississippi			.27	.04				.04									.35	.61			.70	.20				.10	T.				.23	2.54
Marble Hill	Mississippi			.30	.15				.10									.48	.51			1.00										.10	2.64
Morehouse	....do			.42					06				T.					.51	.46			2.51					.01					.07	4.04
New Madrid‖	....do			.35	.05				.15	.04								.75	.50	.04		1.60	1.10				.01	.05				.02	4.66
Parma	St. Francis			.43					T.									.64	.34			2.15										.14	3.70
Patton	Mississippi			.50														.60	.55			.35											2.00
Poplar Bluff	Black			.53													.45	.80			1.00	.56				.06							3.40
Cairo, Ill.***	Mississippi			.41	01				.27			T.	T.	T.				.96	.11		.16	1.53					.03	T	T.			.02	3.50
Ozark Plateau.																																	
Arcadia‖	St. Francis			.28	T.					T.		T.		.03				.24	.13			T.	.70				T.	T.					1.38
Birchtree	Black			.40														.24				1.20										.32	2.16
Bolivar	Osage			.45					.01				T.					.50			.10	.45					T.					.56	2.07
Dean	Neosho		.11	.60						T.								1.30				.50										T	2.51
Eldon‖	Missouri		.52										.02					.30			.21	.05			.01		.03					.16	1.30
Farmington	St. Francis			.34					T.	T.		T.		T.				.20	1.03			.51					T.	T.				.11	2.19
Fredericktown‖	.... do			.40	T.					T.	.05			.02					.25	.89		.40	.63										2.64
Galena‖	White			.58													.75	.25				.35	.40								.10		2.43
Gano	Meramec			.49										.06				.11	.50			.78					T.					.42	2.36
Goodland	Black			.22														.15	.27			.90										.20	1.74
Greenville	St. Francis			.47														.45	.60			.90										.09	2.51
Hailey	White			.60														1.32	.05			.93										.15	3.05
Hollister	.... do		.60															1.00				1.30											2.90
Houston	Gasconade																																....
Jerome‖	.... do																																....
Koshkonong	Black			.42														.28	.55			.98										.38	2.61
Lebanon‖	Osage			.60										T.					.40	T.		.26				.15						T.	1.41
Lockwood	....do			T.										.02				1.59			.11	.24											1.96
Mountain Grove‖	White			.38	T.								T.					.29	.42	.02		.09	.65			T.	T.					.20	2.05
Neosho	Neosho		.06	.68	T.					T.							T.	1.12			.11	.30			T.		T.					.02	2.29
Rolla	Meramec		.66											T.			.34	.25			.20											.70	2.15
Seligman	Neosho			.75						T.												1.20										.34	2.29
Seymour (near)	White		T.	.55					.04			T.						.51	.46		T.	.63			T.		T.					.15	2.34
Springfield**	....do		.09	.36					.01			T.	.03	T.			.07	.81	.02		.16	.67			T.		T.					.06	2.28
Steelville‖	Meramec			.53										.05				.07	.56			.37	.13					T.					1.71
Tuscumbia‖	Osage*			.36										T.				.25	.28		.11	.15				T						.05	1.20
Willow Sprgs.‖ (near)	White			.43														.20	.65		.25	.32	.30									.60	2.75
Southwest Plain.																																	
Amoret	Osage		.18	.68					T.				T.					.35	.22			.50				.18						.18	2.29
Appleton City	....do	T.	.08	60	T.				.01			T.	T.	T.			T.	.30	.35		.25	T			T.	.06	T.					T.	1.65
Clinton	....do		.08	.75														.40							T.								1.23
Harrisonville‖	....do			.70	.02				.08									.20	.37														1.37
Joplin*	Neosho		.13	.43												.15	.88	T.	T	.07					.07	.15	T.				T.	.01	1.89
Lamar‖	....do			.60	T.									T.				.50	.63		.11	.10				T.						T.	1.94
Lamonte	Missouri	T.	.73	.10				31						.10			T.	2.00			T.							.02				.45	3.71
Marshall	.... do		.05	.77				T.				T.	T.	T.			.05	.25	.11		.05	T.				.20	T.	.05				.33	1.86
Nevada	Osage		.20	.60														.65				.25				.10						T.	1.80
Osceola‖	....do			.72														.50	.40		.10											20	1.92
Warrensburg	Missouri	T.	.07	.70	T.			.08	T.			T.	T.				T.	.35	.25		.10	T.				T.		.01				.09	1.65
Warsaw	Osage		.06	.48		.03							T.	T.			.10	.18			.02			T.	.10								0.97
Waverly‖	Missouri		T.	.71	T.			T.	.09			T.	T.	T.				.05	.34			.11				.07		.03				T.	1.40
Northwest Plateau.																																	
Albany‖	Grand		.16																			.20						.05					0.41
Avalon	....do																																....
Bethany	....do																																....
Chillicothe‖	....do.																																....
Conception	Missouri	T.		.70							T.	T.	T.								.24					.04		T.				.17	1.15
Edgerton	....do		.10	.53	.04			.05				T.	T.					T.	.10		.12	.16			T.	12		.01				.22	1.45
Gallatin	Grand			.58																T.		.38				T.		T.				T.	0.96
Grant City	... do		T.	.28							T.		T.	T.							.22											.12	0.62
Kansas City***	Missouri	T.	.13	.63	.01		T.	.23	.01		T.	T.	.01					.29			.13				.03	T.	.01	T.			.02	.06	1.56
Kidder‖	Grand			.70				.50											.29			.22				.16							1.87
King City	Missouri		.67																			.04				.10						.27	1.08
Lexington‖	....do			.76				.05	.08												.10					.05		T.					1.04
Liberty‖	....do																																....
Maryville	....do	T.	.05	.72	T						T.										.10	.05				.05					.02	.10	1.09
Oregon	....do																																....
St. Joseph***	....do	T.	.18	.66	T.			.04		T.	T.	T	T.								.13				.12	.01		T.			.03	.28	1.45
Tarkio	....do			.62								T.									.03					.03		.03				.25	0.96
Trenton	Grand	T.		.64	.07							T.	T.					.08			.09				.07	T.	T.					.46	1.41

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for January, 1926.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	47	45	43	51	43	47	35	34	34	37	37	34	35	50	42	52	37	55	51	27	21	14	34	30	32	40	50	28	49	62	45	40.0
	Minimum	15	30	32	32	34	22	27	24	22	20	24	3	6	17	19	20	33	30	30	23	18	−2	−2	12	14	17	25	9	9	28	41	20.4
Columbia	Maximum	47	46	41	47	42	45	34	31	30	40	36	32	32	49	45	53	45	52	57	34	28	15	33	29	31	38	50	25	52	63	48	40.3
	Minimum	32	35	35	39	32	27	28	25	22	20	11	4	18	31	22	33	35	33	34	27	9	0	9	20	21	29	25	11	20	44	39	24.8
Fayette §§	Maximum	36	42	50	42	35	32	28	26	40	36	35	34	34	35	35	39	36	37	37	26	20	34	29	32	32	52	30	46	57	46	..	[a]36.4
	Minimum	9	28	33	34	33	25	26	23	19	16	23	1	3	16	17	17	33	31	25	24	18	−2	−2	13	16	18	25	10	11	14	40	19.3
Hannibal	Maximum	47	41	40	45	40	42	31	29	32	38	36	32	32	48	42	50	41	52	58	34	27	13	33	30	28	37	44	20	48	60	47	38.6
	Minimum	32	25	35	38	35	30	25	24	24	21	10	3	17	28	26	34	35	34	32	26	7	−5	6	20	18	27	20	5	15	42	31	23.2
Jefferson City §§	Maximum	47	48	42	38	42	30	35	32	32	37	38	22	40	38	45	52	44	51	63	32	22	16	32	32	35	38	30	36	52	63	47	39.1
	Minimum	24	35	35	36	33	27	28	25	22	19	27	3	11	21	25	31	38	35	31	29	20	−2	−3	15	23	25	26	13	15	35	41	24.8
Kirksville	Maximum	45	40	39	46	44	42	37	30	29	34	35	22	32	47	42	51	44	51	48	..	25	13	34	31	29	37	44	37	47	56	49	[a]38.7
	Minimum	30	23	33	36	31	25	21	20	18	18	11	−2	10	22	19	29	29	27	20	..	9	−10	−2	14	10	22	18	0	12	35	35	[a]18.8
Louisiana	Maximum	47	45	40	45	44	44	38	32	32	40	37	25	32	48	45	52	44	50	58	48	39	16	33	32	36	36	45	38	50	59	52	41.4
	Minimum	28	24	34	38	36	30	26	25	22	22	22	4	22	22	32	31	35	35	27	28	16	−2	5	25	23	15	23	6	14	40	38	24.1
Macon §§	Maximum	47	43	49	47	42	45	32	32	34	35	35	33	34	49	43	52	35	53	52	27	17	13	34	28	31	39	44	24	47	60	47	38.8
	Minimum	12	25	27	35	33	26	24	20	21	18	31	0	1	13	20	20	31	30	30	21	15	−8	−8	10	14	15	20	4	4	24	35	18.2
Mexico §§	Maximum	47	42	41	45	40	46	29	30	29	40	36	30	39	50	45	55	39	51	59	35	20	15	31	26	33	35	38	29	48	60	47	39.0
	Minimum	14	29	29	35	34	28	26	23	22	19	24	−2	−1	18	24	24	34	34	33	23	19	−2	−1	10	17	25	18	9	8	27	35	20.5
St. Catharine	Maximum	46	41	40	47	41	42	39	34	30	35	35	23	32	50	43	51	43	51	47	39	25	15	33	31	28	38	43	20	46	57	55	38.7
	Minimum	31	27	35	36	34	25	23	22	22	19	16	0	14	26	20	30	32	29	32	21	14	−5	0	19	15	24	21	4	15	38	40	21.9
St. Louis(1)	Maximum	46	51	43	51	44	46	35	30	33	41	41	30	32	50	44	58	48	52	61	45	33	17	29	32	35	37	50	31	51	55	49	41.9
	Minimum	31	35	36	40	36	30	28	24	24	27	20	9	22	25	32	33	42	38	36	33	16	3	6	24	25	30	29	11	17	40	40	27.2
Unionville	Maximum	44	40	43	46	44	36	34	36	33	36	33	20	34	44	42	52	48	54	48	34	24	12	32	31	28	38	42	33	48	58	50	38.7
	Minimum	27	20	30	34	32	24	20	23	20	22	10	−2	8	24	27	30	26	24	30	18	10	−11	−1	10	12	20	16	−1	10	36	36	18.8
Warrenton	Maximum	46	49	46	46	46	44	43	31	30	41	37	27	31	50	48	59	54	50	66	64	31	19	32	31	35	36	49	48	52	61	56	43.8
	Minimum	28	33	34	37	34	27	26	24	22	18	25	3	22	21	23	30	39	35	33	28	18	−1	4	22	22	27	26	9	15	39	34	24.4
Southeast Lowlands.																																	
Caruthersville	Maximum	51	58	52	47	43	47	49	46	44	42	44	38	40	40	49	53	60	62	60	55	51	39	42	48	45	42	47	44	58	56	57	48.7
	Minimum	37	45	30	28	21	24	25	30	28	25	29	19	20	20	28	35	48	44	40	39	36	11	14	23	26	20	23	21	33	32	34	28.6
Doniphan	Maximum	48	48	44	50	49	48	40	38	38	44	36	34	37	42	55	57	56	58	61	59	45	26	26	32	29	39	58	50	49	58	54	45.7
	Minimum	20	35	35	40	34	22	24	29	19	19	15	12	21	23	27	30	35	39	40	40	26	5	−3	8	21	27	30	27	18	30	44	25.5
Jackson	Maximum	40	47	43	45	45	44	38	35	27	36	38	34	29	41	45	53	51	48	57	53	47	20	23	29	34	34	49	48	42	55	49	41.3
	Minimum	18	31	34	36	38	23	24	24	21	20	27	13	19	17	20	21	43	40	27	37	20	1	−13	5	16	20	29	19	11	33	37	23.0
Poplar Bluff	Maximum	44	46	46	50	49	42	41	38	34	43	46	33	42	53	55	62	56	56	65	61	51	29	29	34	43	41	59	54	52	62	53	47.4
	Minimum	32	35	41	35	22	23	28	17	18	28	13	26	18	22	25	43	43	29	36	32	3	−4	9	22	23	29	24	19	27	39	31	25.4
Cairo, Ill.	Maximum	45	51	46	52	52	46	37	33	32	39	43	31	33	50	46	59	51	53	62	58	48	20	21	32	38	35	52	47	52	58	51	44.4
	Minimum	29	38	36	46	35	31	29	25	23	23	30	16	24	23	32	33	46	43	39	44	20	8	8	19	26	29	33	21	20	39	41	29.3
Ozark Plateau.																																	
Arcadia §§	Maximum	50	53	44	49	41	50	40	35	30	42	39	32	36	55	51	58	46	54	63	49	31	22	28	35	40	37	54	30	48	58	46	43.4
	Minimum	8	31	32	34	37	26	20	25	17	19	20	10	8	16	24	24	29	37	27	36	27	−2	−18	−18	15	23	27	18	15	17	33	19.9
Birchtree	Maximum	50	54	48	52	49	57	47	38	35	41	42	36	39	52	57	55	52	53	64	58	52	24	24	33	38	54	50	41	49	58	53	46.9
	Minimum	25	35	34	40	33	22	28	26	18	18	31	7	26	25	31	21	42	38	35	38	22	0	−9	4	24	27	20	18	12	36	42	24.8
Eldon §§	Maximum	46	40	45	40	50	..	..	50	40	35	32	36	50	48	51	40	54	61	30	30	16	30	31	35	38	51	48	54	62	41	..	[c]42.3
	Minimum	31	35	35	33	28	..	..	21	17	18	4	4	20	23	23	36	35	33	30	24	4	3	6	17	22	25	15	15	18	43	34	[b]22.5
Farmington	Maximum	52	56	45	51	46	49	40	32	27	42	40	32	33	53	51	60	49	49	64	55	54	18	22	34	42	38	51	49	50	60	47	44.9
	Minimum	25	35	34	39	34	27	25	25	20	20	32	20	25	20	26	28	41	37	32	33	28	−2	−12	15	20	28	27	16	15	32	40	25.8
Hollister	Maximum	48	54	56	60	62	59	56	48	46	49	42	45	56	58	60	65	64	63	60	59	50	30	38	39	45	46	48	49	59	65	56	52.7
	Minimum	18	20	28	28	30	25	23	18	16	19	18	8	19	20	22	20	18	36	38	36	30	−16	−4	0	10	18	22	24	24	30	36	20.5
Koshkonong	Maximum	53	55	46	56	57	52	55	47	37	41	44	37	39	63	54	57	53	52	65	62	56	23	32	36	40	38	56	49	49	70	68	49.7
	Minimum	28	39	35	41	31	29	29	28	21	26	33	10	28	25	33	32	42	40	38	41	21	1	3	14	20	28	30	25	20	40	38	28.0
Lebanon §§	Maximum	50	47	42	40	41	49	37	34	33	40	39	32	38	50	51	61	49	57	68	43	34	21	35	34	42	38	53	32	55	61	52	43.8
	Minimum	14	34	34	36	28	24	25	23	19	18	20	3	3	19	20	20	40	34	34	29	22	−5	−4	1	13	13	27	16	16	24	42	20.7
Mountain Grove	Maximum	49	51	42	54	40	52	40	31	35	39	37	33	36	51	51	59	46	53	64	53	34	25	25	34	45	49	50	33	44	57	46	43.9
	Minimum	15	22	34	34	30	24	24	25	19	20	20	5	5	22	24	25	33	35	36	34	25	−1	−4	1	14	15	25	20	19	20	39	21.8
Neosho	Maximum	52	47	43	55	51	53	50	48	37	42	40	33	41	49	60	61	57	57	65	59	33	25	32	33	34	43	58	57	57	61	58	48.1
	Minimum	22	33	37	38	28	20	28	29	26	23	27	5	25	25	19	31	45	36	34	32	20	−2	−6	12	21	28	25	25	30	43	35	25.0
Rolla	Maximum	48	50	47	51	48	50	43	33	30	48	42	37	39	51	50	61	55	54	65	51	40	18	31	31	37	35	54	45	61	61	58	45.9
	Minimum	29	37	35	40	32	25	28	24	20	18	34	4	21	26	23	36	42	35	36	26	17	0	−1	14	22	25	28	15	21	41	43	25.7
Springfield	Maximum	50	45	42	49	42	47	41	31	30	40	36	33	35	46	50	58	49	50	62	46	28	16	26	33	35	38	52	37	49	60	49	42.1
	Minimum	30	37	35	39	30	27	31	24	24	23	15	6	23	29	29	38	39	35	38	28	13	2	1	16	17	26	30	21	26	40	34	26.0
Southwest Plain.																																	
Amoret	Maximum	50	46	42	53	48	48	48	35	35	41	42	36	41	51	49	50	46	54	50	40	27	21	32	30	35	43	53	44	50	57	53	43.5
	Minimum	31	32	35	39	31	21	28	25	24	18	23	3	21	30	18	28	33	29	32	22	18	4	8	14	22	28	28	17	23	40	37	24.6
Appleton City	Maximum	48	44	41	51	45	49	42	36	36	38	37	31	40	52	51	51	47	54	55	44	27	20	30	28	33	45	55	47	50	61	56	43.4
	Minimum	31	37	36	39	32	25	29	25	26	22	22	5	22	31	21	31	35	32	36	25	19	4	11	17	22	30	30	17	24	42	41	26.6
Clinton	Maximum	48	46	41	49	48	48	45	35	35	48	38	36	38	52	48	51	48	52	56	43	35	30	33	28	34	44	55	45	54	62	58	44.6
	Minimum	25	32	35	32	32	25	28	25	25	22	24	12	5	32	22	36	35	32	31	35	20	3	11	16	22	29	35	15	23	42	45	26.0
Harrisonville §§	Maximum	51	41	43	50	46	47	29	35	37	40	32	35	40	51	47	52	36	56	51	25	21	16	35	27	35	44	55	31	52	56	48	40.8
	Minimum	14	33	35	35	30	23	23	18	18	19	29	2	4	19	23	25	32	29	29	20	17	0	0	11	17	22	27	14	14	30	40	21.0
Lamar §§	Maximum	51	41	44	50	45	50	37	35	33	40	37	36	40	49	54	59	41	55	59	32	24	19	29	31	35	41	56	35	54	61	42	42.5
	Minimum	14	34	36	38	29	24	25	28	27	22	25	7	7	23	22	22	39	35	36	29	23	7	6	6	20	26	29	22	21	34	40	24.4
Lamonte	Maximum	46	41	44	51	43	53	39	34	35	38	36	31	39	49	53	55	46	58	55	33	27	18	34	29	35	41	51	41	50	64	53	42.8
	Minimum	30	32	32	37	28	24	25	23	18	18	11	3	17	29	20	31	33	31	32	23	12	0	7	16	20	29	24	13	20	41	41	23.3
Marshall	Maximum	48	48	41	50	45	48	40	33	33	39	37	28	31	49	45	55	47	52	50	37	27	20	32	29	33	40	50	42	48	63	55	41.9
	Minimum	30	31	35	37	30	26	27	25	19	18	15	1	16	23	19	28	31	30	29	23	18	−2	4	19	16	25	19	10	17	38	40	22.6
Nevada	Maximum	50	43	43	52	45	55	50	31	34	42	38	33	40	36	52	56	48	55	57	47	27	18	30	30	31	44	55	48	52	62	55	44.0
	Minimum	31	36	36	40	30	27	29	26	27	31	21	6	22	31	24	36	36	32	37	25	18	6	12	17	25	30	31	18	26	40	40	27.3
Warrensburg	Maximum	47	45	41	52	50	49	45	34	34	39	36	30	39	51	49	53	53	54	52	38	28	19	33	31	36	43	53	49	48	61	58	43.5
	Minimum	32	36	36	39	32	24	27	23	20	18	24	4	20	31	24	36	34	31	37	23	18	1	9	18	20	29	27	15	22	42	42	25.6
Warsaw	Maximum	45	49	48	50	49	52	49	45	48	53	40	38	51	55	52	60	52	58	55	50	40	47	52	45	60	65	48	50	55	60	45	50.6
	Minimum	28	31	37	40	33	22	30	32	23	18	16	5	21	30	18	37	39	35	30	25	5	9	8	24	25	29	15	35	30	37	29	25.7
Northwest Plateau.																																	
Chillicothe §§	Maximum	48	41	42	51	40	41	30	34	31	37	36	31	36	48	41	52	36	54	46	25	19	14	37	27	31	39	47	28	51	57	43	38.8
	Minimum	13	25	27	34	32	24	24	20	17	18	20	−1	2	13	19	19	30	27	26	19	13	−8	−8	8	14	15	21	7	6	27	40	17.5
Grant City	Maximum	48	38	38	46	41	39	39	40	39	36	39	31	31	37	49	52	46	56	49	27	25	16	33	33	28	38	47	48	46	50	49	39.8
	Minimum	33	25	32	36	30	22	21	21	19	17	20	0	0	11	16	28	25	20	26	16	8	−12	−3	12	11	20	16	3	21	29	38	18.1
Kansas City	Maximum	52	44	42	52	41	48	31	34	35	38	37	36	39	49	46	54	37	55	15	23	21	17	36	29	35	39	53	27	49	56	48	40.4
	Minimum	36	36	36	37	32	30	24	22	25	23	6	4	22	33	31	37	32	32	20	17	8	0	12	20	19	31	27	12	23	44	28	21.5
Kidder §§	Maximum	45	47	45	50	39	45	28	32	33	37	23	31	37	42	47	52	35	51	45	21	18	11	31	30	31	40	47	28	47	53	43	37.8
	Minimum	12	12	32	31	30	22	23	18	20	18	18	0	2	13	19	24	27	24	25	16	10	−10	−10	9	9	25	25	6	6	26	37	16.8
Lexington §§	Maximum	43	43	39	53	47	46	40	29	29	37	38	32	31	49	44	51	41	52	49	33	25	16	31	31	31	41	42	43	48	58	53	40.5
	Minimum	34	31	35	38	32	27	26	19	19	18	16	4	18	30	22	31	32	29	31	21	15	−1	7	16	17	30	25	12	20	41	40	23.7
Maryville	Maximum	48	39	39	47	40	37	35	35	33	35	35	33	39	47	45	50	51	57	42	23	19	14	33	29	31	39	47	32	46	47	48	38.5
	Minimum	34	26	33	37	30	22	21	21	24	19	6	0	14	15	20	29	25	22	23	15	7	−7	1	15	14	24	21	5	15	38	35	19.5
Oregon	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph	Maximum	50	40	40	48	39	42	31	30	33	37	36	36	37	47	46	51	38	54	41	22	19	13	37	29	29	39	50	24	45	52	48	38.3
	Minimum	33	30	35	35	30	28	24	23	22	22	5	4	19	31	21	34	29	26	16	16	2	−5	7	18	16	26	19	10	20	43	28	21.6
Trenton	Maximum	44	37	38	46	42	37	34	31	30	36	34	30	31	45	41	48	40	47	45	35	21	16	33	21	29	38	40	31	46	53	48	37.4
	Minimum	32	27	34	36	32	27	21	23	20	20	12	2	11	26	22	30	29	27	32	21	14	−8	2	12	15	25	25	5	16	28	39	21.7

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a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 3-17-26—875.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.
GEORGE REEDER, Meteorologist.

VOL. XXX. COLUMBIA, MO., FEBRUARY, 1926. No. 2.

GENERAL SUMMARY.

February, 1926, in Missouri, was markedly and persistently mild, with normal sunshine, and about normal precipitation. Except a day or two during the second week, and on the 18th and 19th, temperature changes were mainly unimportant, and there was little real winter cold. The prevailing mild weather probably was largely due to the absence of the usual February snows. Some high winds prevailed on several dates, the most outstanding gale being on the 18th, attended by snow. There was no material damage anywhere.

Except the hard-finished main highways, roads were in bad condition, and trade between farm and city was mostly conducted by means of horse-drawn vehicles. Highway work and other outdoor occupations, as well as most business and traffic lines were somewhat adversely affected by the month's weather.

Farm work was delayed, except it made some progress in the southern third of the State; and winter wheat and grass began to green and show some little growth in southern sections. The commercial fruit orchards have not been materially injured by freezes.

TEMPERATURE.

The monthly mean temperature for the State, as a whole, 62 stations reporting, was 39.4 degrees, or nearly 8 degrees above the normal. This mean has been equaled once, (1915) and exceeded once, (1921) since the beginning of records in 1888. The day temperatures were not as high as usual but the minimum readings were higher than the normal for February. The extremes, 76 degrees and — 4 degrees, are well within those of other years. The zero cold was brief, occurring at one station on one day. There were only about 15 days with minimum of 32 degrees or lower.

PRECIPITATION.

The monthly precipitation, based upon the records of 98 stations, was 2.08 inches and about normal for the State as a whole. This element, however, was not so evenly distributed as the temperature. The northern half of the State was a little wetter than the southern half, though some of the heaviest local amounts fell in the latter division. Probably the most outstanding rainy spells were the first two days, 14th to the 19th, and 24th to the 26th. About two inches fell within 24 consecutive hours at Doniphan, and Lamonte, on the 18th; and at Goodland, and Greenville, on the 25th.

The snowfall was very light for the State as a whole, and it did not remain on the ground. There were a few heavy local falls, particularly in Jackson County where 12 inches fell, 8 inches in Lafayette, 7 inches in Saline, 12 inches in Linn and Randolph, and 7 to 8 inches in Shelby and Marion Counties.

MISCELLANEOUS PHENOMENA.

Fogs, dense.—1st, 2d, 3d, 11th, 13th, and 18th.

Halos, solar.—4th, 5th, 6th, 7th, 8th, 11th, 13th, 16th, 20th, and 21st.

Halos, lunar.—4th, 18th, 20th, and 21st.

Thunderstorm.—13th, 14th, 17th, 18th, 24th, and 25th.

SPECIAL NOTES.

Sleet was general on the 18th, and local on the 14th, 25th, and 26th, but was not of a damaging character.

During the general snowstorm of the 18th, a strong northerly gale was an added feature, beginning in the early morning and continuing until late afternoon. The snow was very much drifted, and, by piling up in sheltered places, interferred somewhat with public traffic. The maximum velocity, as recorded at Kansas City, was 58 miles an hour. There was no damage.

During the night of the 24th a high wind caused some damage in parts of New Madrid County. A few silos were blown down, small tenant houses damaged and a few trees blown down. Damage and loss about $500.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.98	81	72	149	49	6,667	9.9	33	n.	18
Hannibal	29.98	80	..	...	..	6,723	10.0	34	sw.	28
Kansas City	29.98	82	69	198	66	8,375	12.5	58	ne.	18
St. Joseph	29.98	82	65	172	57	6,594	9.8	36	nw.	8
St. Louis	29.98	75	63	122	41	9,669	14.4	42	nw.	25
Springfield	30 02	80	64	148	49	8,509	12.7	37	w.	25
Cairo, Ill	30.00	77	61	...	..	7,624	11.3	52	sw.	25
Keokuk, Iowa	29.99	78	69	146	48	6,048	9.0	35	w.	25

COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	33.0	+2.0	73	−11	2.04	−0.28	.....	.....	7	....	....	....
1889	29.3	−1.7	73	− 9	2.57	+0.25	.....	.....	7	....	....	....
1890	35.5	+4.5	81	− 7	2.24	−0.08	.....	.....	7	....	....	....
1891	32.7	+1.7	76	− 8	2.28	−0.04	.....	2.4	6	....	....	....
1892	37.7	+6.7	71	2	4.15	+1.83	.....	.....	9	7	6	16
1893	27.9	−3.1	65	−20	1.98	−0.34	2.30	4.6	6	10	7	11
1894	30.8	−0.2	72	−12	2.52	+0.20	2.60	11.2	6	10	8	10
1895	23.6	−7.4	77	−26	0.55	−1.77	1.10	3.3	5	10	10	8
1896	35.6	+4.6	81	−10	1.61	−0.71	2.20	4.1	5	12	8	9
1897	34.8	+3.8	74	−15	2.30	−0.02	3.60	8.2	7	7	7	14
1898	35.4	+4.4	78	− 9	1.62	−0.70	2.90	0.8	5	13	6	9
1899	20.4	−10.6	72	−32	2.17	−0.15	4.30	5.3	6	12	8	8
1900	26.2	−4.8	70	−16	3.92	+1.60	2.85	16.6	10	10	6	12
1901	28.1	−2.9	76	−19	1.63	−0.69	2.36	7.6	6	13	7	8
1902	24.0	−7.0	72	−17	1.50	−0.82	2.35	5.8	5	11	8	9
1903	29.8	−1.2	74	−25	2.92	+0.60	2.65	5.3	7	11	6	11
1904	30.0	−1.0	82	−18	0.91	−1.41	1.46	1.5	5	11	8	10
1905	21.5	−9.5	69	−40	1.64	−0.68	1.20	13.2	8	11	6	11
1906	33.7	+2.7	73	−13	2.28	−0.04	2.40	4.1	7	15	6	7
1907	34.8	+3.8	77	−15	1.65	−0.67	3.72	4.5	6	12	5	11
1908	35.6	+4.6	78	− 7	4.32	+2.00	4.28	4.1	9	13	6	10
1909	38.8	+7.8	71	− 4	3.38	+1.06	2.50	3.1	9	13	5	10
1910	28.3	−2.7	72	−24	1.98	−0.34	3.00	7.7	6	12	6	10
1911	38.1	+7.1	87	0	3.64	+1.32	2.08	6.3	8	12	5	11
1912	28.3	−2.7	72	−12	2.45	+0.13	3.20	11.9	6	10	7	12
1913	29.8	−1.7	78	− 9	2.21	−0.18	4.78	8.5	7	12	5	11
1914	28.3	−3.2	75	−11	2.71	+0.42	2.80	14.0	7	12	6	10
1915	39.4	+8.0	72	7	3.18	+0.81	2.05	4.1	8	9	5	14
1916	31.4	+0.2	78	−12	0.98	−1.48	2.70	5.0	5	13	6	10
1917	30.5	−1.0	83	−22	0.41	−2.03	1.24	1.4	2	14	7	7
1918	34.9	+4.6	83	−25	1.11	−1.26	2.00	0.6	4	15	6	7
1919	35.3	+4.0	71	−10	1.98	−0.35	2.20	6.4	7	13	4	11
1920	34.5	+3.2	78	− 5	0.57	−1.68	1.41	1.2	4	11	6	12
1921	40.1	+9.1	86	5	0.94	−1.33	2.00	1.8	4	14	6	8
1922	35.4	+4.1	80	− 5	1.79	−0.44	1.65	1.9	5	14	6	8
1923	30.2	−1.2	75	− 9	1.37	−0.88	2.20	1.4	5	13	5	10
1924	33.8	+2.0	79	− 5	1.84	−0.31	1.60	8.1	7	14	4	11
1925	38.7	+6.9	78	1	1.85	−0.30	1.78	1.7	6	12	6	10
1926	39.4	+7.6	76	− 4	2.08	−0.07	2.00	2.9	6	11	6	11

Climatological Data for February, 1925.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	36.8	+ 7.7	67	28	14	19	40	2.27	+0.42	0.83	5.0	6	14	0	14	nw.	O. K. Benecke
Clifton Hill	Randolph	731	26	36.4	+ 7.2	67	28	12	11	39	2.03	+0.70	1.05	12.1	9	12	5	11	......	Dr. A. J. Bradsher
Columbia	Boone	748	35	38.7	+ 7.0	70	28	16	19	32	2.04	−0.09	1.24	2.8	8	9	3	16	w.	U. S. Weather Bureau
Downing	Schuyler	878	4	35.0	......	65	28	− 4	18	45	0.70	−0.70	0.20	1.0	5	9	7	12	w.	E. E. St. Clair
Fayette	Howard	661	45	....	......	..	..	14	19	..	2.53	+0.63	1.00	5.0	4	..	..	..	......	J. D. Settle
Fulton	Callaway	818	37	38.0	+ 5.3	70	28	18	11†	42	2.49	+0.60	1.09	3.0	8	16	3	9	..	Chamber of Commerce
Gorin	Scotland	700	38	....	......	..	..	....	..	..	1.61	+0.12	1.11	8.0	5	5	9	14	nw.	J. W. Pulliam
Hannibal	Marion	534	33	36.8	+ 7.1	68	28	17	19	34	2.34	+0.74	1.55	6.8	8	9	4	15	w.	U. S. Weather Bureau
Jefferson City	Cole	557	37	38.5	+ 7.6	71	28	18	19	38	2.77	+0.68	1.05	0.5	9	17	1	10	s.	Miss Emma Swift
Kirksville	Adair	969	36	35.6	+ 9.7	64	28	13	19	32	1.90	+0.08	1.07	5.0	3	12	2	14	sw.	Prof. J. S. Stokes
Louisiana	Pike	469	31	38.4	+ 8.7	70	28	18	11†	40	3.44	+1.09	1.50	5.0	8	19	1	8	w.	J. T. Farrell
Macon	Macon	875	26	34.9	+ 6.2	67	28	8	19	42	2.54	+0.59	0.98	4.0	6	13	6	9	nw	W. C. Brown
Mexico	Audrain	800	36	36.0	+ 6.7	69	28	11	19	43	2.42	+0.21	1.17	4 2	7	16	0	12	w.	Mrs. Abbie Snoddy
St. Catharine(near)	Linn	800	14	36.2	+ 7.2	63	28	6	15	37	2.29	+1.05	0.86	12.2	6	10	11	7	sw.	L. D. Baker
St. Charles	St. Charles	456	37	39.8	+ 7.3	69	28	20	9†	39	3.20	+0.57	1.40	T.	4	11	7	10	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	40.2	+ 5.4	69	28	20	19	37	2.52	−0.23	1.27	T.	11	7	6	15	nw.	U. S. Weather Bureau
St. Louis (2)	....do.	578	13	39.6	+ 7.4	69	21†	21	19	37	2.08	−0.23	0.96	T.	10	7	7	14	se.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	..	..	..	2.28	+0.36	0.95	7.5	6	..	..	..	....	J. C. Jewett
Steffenville	Lewis	650	27	36.6	+ 8.2	65	28	10	19	35	2.02	+0.17	0.60	7.0	7	11	6	11	s.	Frank Hall
Unionville	Putnam	1,062	32	35.4	+10.0	63	28	13	15	33	1.41	−0.42	1.05	0.5	4	10	8	10	n	Geo. W. Davis
Warrenton	Warren	816	43	40.4	+10.5	71	28	18	19	41	2.02	−0.17	0.81	2 2	8	10	5	13	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	35.1	+ 6.8	65	28	14	19	30	1.14	−0.48	0.64	3.2	5	7	7	14	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	37.3	+ 7.5	71	28	− 4	18	45	2.18	+0.26	1.55	4.3	7	11	5	12	nw.	
Southeast Lowlands:																				
Benton	Scott	340	..	....	......	..	..	....	..	..	1.93	......	0.82	....	12	..	..	..	....	E. R. Tirmenstein
Caruthersville	Pemiscot	265	29	45.2	+ 6.3	62	24	31	9	29	2.12	−1.68	0.84	1.6	6	9	12	7	s.	L. W. Dillman
Doniphan	Ripley	344	21	43.9	+ 5.8	67	27	17	11†	37	4.39	+1.14	2.05	1.5	4	4	15	9	nw.	W.W. Martin
Jackson	Cape Girardeau	428	34	40.5	+ 5.0	58	6†	19	11†	34	2.36	−0.53	1.26	5.0	11	4	7	17	n.	John G. Putz
Marble Hill	Bollinger	470	30	42.8	+ 7.5	65	26	17	16	36	3.50	+0.22	1.40	6.0	8	10	8	10	n.	R.A. DeWitt
Morehouse	New Madrid	289	24	....	......	..	..	....	..	..	1.81	−1.45	0.77	1.1	10	13	7	8	n.	John A. Spence
Parma	New Madrid	281	4	....	......	..	..	....	..	..	1.61	......	0.93	0	4	..	..	..	.....	H. W. Kendall
Patton	Bollinger	500	16	....	......	..	..	....	..	..	3.21	+1.27	1.85	T.	8	..	..	..	.....	S. P. Presnell
Poplar Bluff	Butler	329	21	44.2	+ 7.9	68	20	18	10	42	2.42	−0.54	1.15	4.5	5	14	6	8	w.	J. H. Wolpers
Cairo, Ill.	Alexander, Ill	359	50	43.0	+ 4.5	62	13	27	19	30	1.78	−1.55	0.99	2.4	11	6	5	17	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	43.1	+ 5.8	67	27	17	11	37	2.52	−0.37	2.00	2.2	8	8	9	11	n.	
Ozark Plateau.																				
Arcadia	Iron	926	44	38.8	+ 5.3	66	28	14	11†	45	2.05	−1.11	0.78	T.	7	18	2	8	nw.	Arcadia College
Birchtree	Shannon	1,000	30	42.2	+ 7.3	68	28	12	5	38	1.82	−0.67	0.66	2 0	7	12	6	10	n.	V. H. Kirkendall
Bolivar	Polk	1,071	31	41.7	+ 7.3	70	28	19	11†	34	1.11	−1.18	0.52	T.	4	11	5	12	sw.	Southwest Baptist College
Dean ††	McDonald	1,000	26	....	......	75	7	..	..	..	1.67	−0.16	0.75	0.5	4	19	2	7	s.	H. E. Dean
Eldon	Miller	934	29	39.8[a]	+ 7.9	70	27	17	10†	39	2.13	+0.03	0.94	T.	5	10	5	13	e.	E. H. Shepherd
Farmington	St. Francois	918	14	40.6	+ 5.0	67	21	18	11	36	2.72	−0.57	1.20	0.2	8	8	8	12	ne.	Robert Forsyth
Gano ††	Dent	1,250	21	41.5	+ 7.0	70	28	16	11	37	3.22	+0.84	1.90	0.5	8	12	4	12	nw.	A. C. Leach
Goodland	Iron	1,000	31	40.7	+ 7.8	69	28	12	11	47	2.70	+0.21	2.00	0	4	11	6	11	n.	F. M. Adams
Greenville	Wayne	381	3	40.0[b]	......	64	28	12	16	35	3.18	......	2.00	0	6	16[b]	0[b]	10[b]	s.	Wm. P. Owens
Hailey	Barry	1,350	0	....	......	..	..	....	..	..	1.18	......	0.75	1.0	4	17	2	9	sw.	A. W. Madison
Hollister	Taney	735	38	44.0	+ 6.0	75	13	15	11	57	1.20	−0.88	0.80	0	2	15	3	10	sw.	Mrs. W. P. Chapman
Koshkonong	Oregon	958	24	45.4	+ 7.9	74	22	19	11	40	2.01	−0.78	0.87	1.0	7	16	1	11	s.	R. M. Hitt
Lebanon	Laclede	1,265	37	41.0	+ 7.1	69	13†	16	11	50	1.74	−0.76	0.85	T.	9	9	5	14	w.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	41.6	+ 6.1	67	12	19	11	30	1.10	−0.87	0.40	0	4	14	4	10	nw.	C. S. Crow
Mountain Grove	Wright	1,463	24	40.1	+ 6.3	68	28	17	11	18	1.82	−0.44	0.83	0.2	6	10	7	11	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	44.6	+ 8.0	74	13	11	11	48	1.85	−0.53	0.60	0.5	7	16	6	6	sw	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	42.4	+ 7.2	72	28	18	11	37	2.10	−0.24	1.00	T.	5	14	6	8	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	44.0[c]	+ 7.8	69	13	16	19	33	1.19	−0.69	0.64	T.	4	13[c]	5[c]	7[c]	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,612	19	41.5	+ 9.1	68	28	13	11†	37	0.53	−1.92	0.18	1.0	4	11	4	13	nw.	Ira H. Hailey
Springfield	Greene	1,350	37	41.2	+ 6.0	69	28	19	19	31	1.15	−1.12	0.61	2.7	6	13	2	13	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	41.7	+ 7.0	75	7†	11	11	57	1.82	−0.60	2.00	0.5	6	13	4	11	sw.	
Southwest Plain.																				
Amoret	Bates	831	18	40.4	+ 6.7	68	9†	17	16†	41	1.90	−0.25	1 10	0.1	4	16	4	8	n.	Andrew Rood
Appleton City	St. Clair	853	31	41.6	+ 9.3	70	28	19	19	32	1.82	−0.15	1.11	0.1	5	8	12	8	nw.	W. G. Bigelow
Clinton	Henry	765	32	42.0	+10.1	69	28	18	19	33	2.16	+0.06	1.25	T.	4	11	9	8	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	37.2	+ 7.5	69	28	11	19	43	1.39	−0.63	0.55	2.0	3	5	0	23	s.	John H. Patterson
Lamar	Barton	980	38	41.0	+ 6.5	74	13	20	11†	45	1.45	−0.78	0.78	T.	2	11	8	9	sw.	Jesse A. Mann
Lamonte	Pettis	867	24	39.0	+ 7.4	68	28	16	28	52	4.20	+0.29	2.00	8.5	3	11	7	10	nw.	J. E. Wheeler
Marshall	Saline	779	36	38.6	+ 9.1	67	28	10	19	36	2.59	+0.75	1.40	7.0	8	10	9	9	nw.	Dr. W. H. Black
Nevada	Vernon	862	32	42.6	+10.7	72	13†	19	19	32	1.41	−0 67	0.55	T	4	14	3	11	s	George A. Kaupp
Warrensburg	Johnson	878	38	40.8	+ 9.5	67	28	13	19	34	2.31	+0.18	1.36	4.6	7	8	6	14	sw.	L. B. Johnston
Warsaw	Benton	687	25	42.6	+ 8.8	65	6†	15	16	48	1.96	−0.60	0.60	T.	5	12	6	10	w.	Everett Martin
Section means and	extremes	.....	..	40.6	+ 8.6	74	13	10	19	48	2.12	−0.18	2.00	2.2	4	11	6	11	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	35	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	F. G. Ashbaugh
Bethany	Harrison	916	33	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	Owen Ross
Chillicothe	Livingston	779	16	34.2	+ 1.7	67	28	9	19†	40	2.72	+0.71	0.88	8.0	5	15	5	8	se.	Wm. J. Olenhouse
Conception	Nodaway	980	36	36.6	+ 8.9	65	28	13	19	27	0.83	−0.36	0.42	2.0	4	8	10	10	s.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	37.6[c]	......	68	28	3	19	33	1.64	+0.19	0.77	6.0	6	16	1	11	s.	Fred L. Stiff
Grant City	Worth	1,134	21	....	......	..	..	....	..	..	....	...	....	....	..	..	..	..	....	B. F. Locke
Kansas City	Jackson	963	36	39.2	+ 8.0	69	28	16	19	25	2.46	+0.87	1.49	10.8	4	7	12	9	nw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	34.6	+ 6.8	76	28	9	19†	48	1.94	+0.42	1.25	4.0	3	17	4	7	nw	Linn Terry
King City	Gentry	1,095	0	....	......	..	..	...	..	..	1.47	......	1.10	5.0	2	..	..	..	......	D. B. Oliver
Lexington	Lafayette	688	40	38.5	+ 9.1	67	28	12	19	29	2.58	+0.58	1.03	8.0	4	9	11	8	s.	Edwin G. Loomis
Liberty	Clay	859	35	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	W. F. Aull
Maryville	Nodaway	1,169	35	36.4	+12.3	66	28	11	19	30	0.93	−0.51	0.40	4.0	3	14	3	11	s.	J. R. Brink
Oregon	Holt	1,048	69	....	......	..	.	....	..	..	....	......	....	....	..	..	..	..		Mrs. Tom Curry
St. Joseph	Buchanan	967	17	37.4	+ 6.8	66	28	14	19	26	2.14	+0.67	1.40	6.4	4	12	7	9	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	22	34.0	+ 6.0	57	6†	11	19	30	0.85	−0.22	0.35	5.0	3	11	8	9	nw.	Albert Volker
Trenton	Grundy	822	29	36.0	+ 7.5	57	28	16	15	24	1.92	+0.39	1.34	1.0	4	12	9	7	s.	W. H. Estes
Section means and	extremes	.....	..	36.4	+ 7.5	76	28	3	19	48	1.77	+0.27	1.49	5.5	4	12	7	9	s.	
State means and	extremes	.....	..	39.4	+ 7.6	76	28	− 4	18	57	2.08	−0.07	2.00	2.9	6	11	6	11	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b], represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for February, 1926.

Stations.	Drainage-basins.	Day of month.																																Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	.14	.09	T.												.03			.95	.32				.20		.65							2.38
Brunswick‖	Grand	.14	.03													.02			.83	.55						.70							2.27
Clifton Hill	Chariton	.02	.08												.02			.16	1.05						.25	.41	.03	.01					2.03
Columbia***	Missouri	T.	.04						T.		T.			T.	.06		T.	.31	1.01				.07		.48	.02	T.	.05					2.04
Downing	Mississippi		.02						T.									.20	.18						.12	.18	T.						0.70
Fayette‖	Missouri			.12															1.00	.90						.51							2.53
Fulton‖	do	.09	T.	T.											.06	.02			1.09	.44				.13		.64	T.	.02					2.49
Gorin	Mississippi			.10					.01									.55	.56						.39		T.						1.61
Hannibal***	do		.03	.01					.03		T.			T.	T			.25	1.54					T.	.39	.07	.02						2.34
Hermann‖	Missouri	T.	T.	.02						T.					.05	.10			.85	.28				T.		.98		T.					2.28
Jefferson City‖	do	.35	.02	.12											.12	.10			1.05	.16				.08		.77							2.77
Kirksville	Mississippi		T.						.08						T.			.75	1.07														1.90
Louisiana	do		.10								.02				.05			.35	1.35				.05			1.50	.02						3.44
Macon ‖	Chariton	.04	.10	.09												T.			.98	.70					.63								2.54
Mexico ‖	Mississippi	.06									T.				.20				1.17	.40				T.		.55	.02	.02					2.42
Milan‖	Grand		.10														.20	.90	.40							1.05							2.65
Pacific‖	Meramec			.08						T.					.07	.18			.22	.10				.12		1.23		T.					2.00
St. Catharine (near)	Grand		.03												T.			.68	.86						.40	.30	T.	.02					2.29
St. Charles	Missouri														.30			T.	1.40				.20			1.30	T.						3.20
St. Louis (1)***	Mississippi		.09	.01					T.	.02	T.			.17	.30	T.		.04	.46	T.			15		1.07	.20	.01						2.52
St. Louis (2)	do		.09	.01					.01		T.			.10	.35			.05	.42				.09		.80	.16	T.						2.08
Shelbina ‖	do	.05	.02	.09															.95	.90						.27							2.28
Steffenville	do		.10						T.	T.					.05	T.		.50	.60	.20					.25	.32	T.						2.02
Union‖	Meramec	.02		.05											.05	.45			.28	.07				.06		1.33		.05					2.36
Unionville	Chariton	T.	T						T.									.70	.35						.20	.16	T.	T					1.41
Valley Park‖	Meramec	T.	T.	T.						T.	T.				20	.20			.20	.30				.15		1.20							2.25
Warrenton	Mississippi		.04												.08			.15	.78	.03			.08			.81	T.	.05					2.02
Keokuk, Ia.***	do		.05	T.					T.	T.	T.			T.			T.	.54	.32						.19	.04	T.						1.14
Southeast Lowlands																																	
Benton	Mississippi	.02	.05	.27										.01	.21			.01	.20	.01			.02	.11	.20	.82							1.93
Cape Girardeau‖	do	.05		.18							T.		.02	.01	.23				.08	.15				.08		1.08	.02	.01					1.91
Caruthersville	do		.22					.20				.01	T.	T						.83			T.		.84		.02						2.12
Doniphan	Black													T.				.24	2.00				.10		2.05	T.							4.39
Jackson	Mississippi	.02		.09							T.			.04	.13			.02	.07	.50			.13		.07	1.26	.03						2.36
Marble Hill	Mississippi												.10		.60			.35	.15	.70			.10		.10	1.40							3.50
Morehouse	do	22		.21							.01							.03	.11	.03			.11	.12	.20	.77							1.81
New Madrid‖	do	.07		.15							.01									.25				.10		1.00		.07					1.65
Parma	St. Francis		.10																.35				.23			.93							1.61
Patton	Mississippi		.15										.03	.19			.11	.13	.65			.10			1.85		T.					3.21
Poplar Bluff	Black		.10														.29	.38				.50		1.15								2.42
Cairo, Ill.***	Mississippi		.25	.01						.01	.02		T.	.02	.10	T.		T.	.08	.21			.09		.89	.10	T.	T.					1.78
Ozark Plateau.																																	
Arcadia ‖	St. Francis	.08		.05							T.				.64	T.		T.	.17	.28				.05		.78	T.						2.05
Birchtree	Black		.06	.07														.15	.16	.10					.62	.66							1.82
Bolivar	Osage					T.									T.			.21	.52						.23	.15							1.11
Dean	Neosho				T.													.63	.17						.75	.12							1 67
Eldon‖	Missouri		.07										.21				.85	.06				T.		.94								2.13
Farmington	St. Francis		T.								T.			T.	.96			.07	.04	.14			.16		.12	1.20	T.	.03					2.72
Fredericktown‖	do	.35										T.			.37				.27	.22	.40					2.33		.14					4.08
Galena‖	White																	.40	.08						.90								1.38
Gano	Meramec	.06	.04						T.					1.90				.07	.10			.23		.12	.70							3.22
Goodland	Black		.10												.50			.10								2.00							2.70
Greenville	St. Francis				.18										.09			.21	.09	.61						2.00							3.18
Hailey	White	.03																.40							.42	.33							1.18
Hollister	do																	.40							.80								1.20
Houston	Gasconade																															....
Jerome ‖	do																															....
Koshkonong	Black		.11	.05														.16	.11	.08					.63	.87							2.01
Lebanon ‖	Osage	20	T.	.07		T.									.05	.03			.44	.04			.04	.02		.85							1.74
Lockwood	do														T.			.15	.24	T.					.31	.40							1.10
Mountain Grove‖	White	.45	T.	.02											T.	T.			.41	.07			T.	.04		.83	T.						1.82
Neosho	Neosho	.08			.06													.45	.34	.05					.60	.27							1.85
Rolla	Meramec										T.			.55	T.			.39	.05				.11		1.00								2.10
Seligman	Neosho														T.			.11	.18	T			T.		.64	.26							1.19
Seymour (near)	White	T.	T.	T.	T.										T.			.18	.07	.11			T		.17		T.						0.53
Springfield***	do	.02	T.		T.									T.	.03			.16	.32				.01		.61		T.						1.15
Steelville‖	Meramec	.36		.08											.70	.10			.14	.07			.12	.18		1.02		T.					2.77
Tuscumbia ‖	Osage	.10		.08											.26	.01			.60	.21			T.	.10		.78							2.14
Willow Sprgs. ‖ (near)	White	.11	.02	.01																.35	.43						1.08							2.00
Southwest Plain.																																	
Amoret	Osage																	.20	1.10						.40	.20							1.90
Appleton City	do	T.									T.				T.			.19	1.11	T.			.01		.28	.23							1.82
Clinton	do																	.37	1.25						.32	.22							2.16
Harrisonville‖	do															T.			.49	.35						55							1.39
Joplin*	Neosho				.02										T.			.90	.22			.04			.53	T							1.71
Lamar ‖	do	T.				T.													.67	T.						.78							1.45
Lamonte	Missouri										T.				1.55				2.00						.65								4.20
Marshall	do	.02	.05												.03			.15	1.40	.50			T.		.06	.38	T.						2.59
Nevada	Osage																	.26	.42						.55	.18							1.41
Osceola‖	do		.12																.76	.12						.62							1.62
Warrensburg	Missouri	.02									T.			T.	.07			.14	1.36	.12			T.		.25	.35	T.						2.31
Warsaw	Osage		.50												T			.10	.60			T.	T.		.35	.41	T.						1.96
Waverly ‖	Missouri	.30	.02	T.											T.	.07			.98	.78						.60							2.75
Northwest Plateau.																																	
Albany‖	Grand	.05						T.								T.			T.	.40						1.05							1.50
Avalon	do																															....
Bethany	do																															....
Chillicothe‖	do	.18														T.		.07	.81	.78						.88		T.					2.72
Conception	Missouri			T.											T.			.42	.18						.20	T.	.03						0.83
Edgerton	do		.03												.01			.57	.77						.25	.01	T.						1.64
Gallatin	Grand																	T.	1.08	.50							T.							1.58
Grant City	do																															....
Kansas City***	Missouri		T.						T.	T.					.16			.44	1.30						.56	T.	T.						2.46
Kidder ‖	Grand																		1.25	.36						.33							1.94
King City	Missouri																	1.10	.37														1.47
Lexington ‖	do																		1.03	.67						.85	.03						2.58
Liberty ‖	do																															....
Maryville	do																	.30	.40						.23	T.	T.						0.93
Oregon	do																															....
St. Joseph***	do	T.							T.		T.				T.			.81	1.14						.18	.01	T.						2.14
Tarkio	do														T.			.23	.35						.27								0.85
Trenton	Grand		T.						T.						T.		.03	1.34	.19						.36	T.	T.						1.92

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for February, 1926.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	35	41	37	39	48	56	58	49	45	35	42	62	48	37	49	54	48	35	38	50	52	37	47	43	50	43	48	67	..	..	..	46.2
	Minimum	32	32	35	22	22	27	33	30	33	23	20	22	31	34	18	19	27	35	14	16	35	31	25	26	32	32	29	31	..	..	..	27.4
Columbia	Maximum	39	44	38	31	49	55	59	49	44	29	41	63	50	41	37	51	51	47	35	58	58	40	44	52	47	40	44	70	..	..	..	46.6
	Minimum	34	37	29	24	22	38	34	35	29	25	21	38	36	30	20	25	42	25	16	35	40	31	26	30	37	34	30	38	..	..	..	30.8
Fayette §§	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	32	35	35	21	21	36	31	34	33	24	22	36	35	33	19	20	..	35	14	38	39	31	25	30	35	33	28	45	..	..	..	[a]30.4
Hannibal	Maximum	40	38	38	32	43	53	56	47	43	30	38	60	48	38	35	48	48	46	32	49	57	38	42	40	47	41	41	68	..	..	..	44.1
	Minimum	30	36	26	23	24	37	32	37	28	25	21	35	32	31	20	24	40	25	17	32	36	29	26	29	35	34	27	34	..	..	..	29.5
Jefferson City §§	Maximum	41	39	39	31	44	56	65	51	44	31	48	47	55	36	37	54	52	46	46	53	65	33	46	52	51	41	47	71	..	..	..	47.2
	Minimum	34	34	37	22	20	30	32	34	34	26	19	27	35	35	21	21	32	45	18	22	40	32	25	29	35	33	29	33	..	..	..	29.8
Kirksville	Maximum	41	38	37	36	44	53	54	51	48	42	38	51	51	39	38	48	44	41	33	48	59	46	41	36	46	42	41	64	..	..	..	44.6
	Minimum	32	32	29	19	19	34	30	32	27	20	18	31	29	31	14	22	36	23	13	26	32	27	21	28	32	31	24	32	..	..	..	26.6
Louisiana	Maximum	48	40	40	34	45	54	58	58	46	32	40	60	53	45	37	50	50	48	47	54	58	56	45	42	48	45	42	70	..	..	..	48.0
	Minimum	29	36	32	24	20	37	27	35	32	26	18	34	28	34	22	20	33	30	18	24	32	34	27	30	36	34	28	30	..	..	..	28.9
Macon §§	Maximum	37	38	39	35	45	54	55	50	43	35	40	59	49	35	38	50	45	34	38	47	52	34	37	45	47	42	46	67	..	..	..	44.1
	Minimum	33	33	33	31	20	21	32	32	30	23	19	23	30	32	15	17	30	33	8	10	34	29	23	27	26	25	25	25	..	..	..	25 7
Mexico §§	Maximum	45	43	44	29	42	55	58	44	40	29	39	61	41	35	36	50	45	37	39	55	66	35	35	40	46	46	45	69	..	..	..	44.6
	Minimum	33	35	24	23	21	26	27	33	32	25	19	21	30	33	19	20	28	37	11	12	38	32	24	28	34	33	27	32	..	..	..	27.4
St. Catharine	Maximum	49	39	38	37	43	53	59	53	45	37	38	57	59	44	37	49	46	42	34	45	54	46	41	41	46	43	40	63	..	..	..	45.6
	Minimum	32	32	32	21	22	32	30	31	32	21	19	33	30	32	6	12	39	24	13	26	34	28	23	28	32	29	26	32	..	..	..	26.8
St. Louis(1)	Maximum	42	42	44	32	45	57	61	49	45	31	39	61	55	44	38	48	54	50	38	63	68	48	38	44	53	43	41	69	..	..	..	47.9
	Minimum	34	35	32	27	27	40	37	39	30	28	28	33	42	36	24	28	38	27	20	33	43	32	28	30	40	37	29	32	..	..	..	32.5
Unionville	Maximum	44	38	38	36	44	52	55	54	43	40	40	55	50	40	38	50	50	40	34	51	47	43	46	40	46	44	44	63	..	..	..	45.2
	Minimum	30	32	30	18	20	30	28	30	30	18	16	30	26	30	13	20	34	25	15	26	30	25	20	26	30	30	22	30	..	..	..	25.5
Warrenton	Maximum	49	41	41	36	46	61	64	61	46	41	41	66	64	50	37	50	55	49	37	62	66	61	43	47	50	48	40	71	..	..	..	50.8
	Minimum	31	35	35	23	19	38	33	33	33	26	20	33	35	34	22	21	39	32	18	29	39	32	27	28	37	33	27	30	..	..	..	30.1
Southeast Lowlands.																																	
Caruthersville	Maximum	54	55	50	58	56	57	61	58	60	50	55	51	50	52	50	51	50	46	50	50	51	49	58	62	53	60	60	53	..	..	..	53.9
	Minimum	41	36	37	33	35	32	34	37	31	41	33	38	34	34	36	35	39	37	33	39	37	38	36	39	39	36	39	41	..	..	..	36.4
Doniphan	Maximum	53	48	51	44	44	57	63	61	49	43	42	50	64	61	45	50	51	63	56	61	63	62	60	45	62	64	67	65	..	..	..	55.1
	Minimum	34	38	40	27	22	39	30	37	35	30	17	33	36	37	35	17	31	47	23	26	47	40	41	28	30	35	32	28	..	..	..	32.7
Jackson	Maximum	44	45	43	40	41	58	57	53	48	41	38	53	54	52	56	45	50	55	54	55	58	55	35	45	57	51	41	58	..	..	..	49.4
	Minimum	32	34	39	27	25	32	37	32	36	26	19	31	39	38	31	19	35	42	20	21	42	35	28	29	44	35	31	27	..	..	..	31.6
Poplar Bluff	Maximum	58	50	49	44	46	67	65	67	53	35	46	56	63	63	52	54	55	64	58	68	63	61	44	48	69	57	57	66	..	..	..	56.4
	Minimum	36	38	25	24	31	28	29	40	29	18	31	38	41	35	19	27	45	22	25	40	48	33	30	38	35	28	26	35	..	..	..	31.9
Cairo, Ill.	Maximum	54	52	46	38	44	62	62	54	47	33	38	52	62	57	40	48	60	61	38	58	62	57	38	58	61	46	41	61	..	..	..	51.1
	Minimum	38	37	38	31	31	35	38	43	32	28	27	33	45	38	33	30	41	34	27	31	47	36	32	31	46	35	32	31	..	..	..	35.0
Ozark Plateau.																																	
Arcadia §§	Maximum	44	44	42	35	47	63	62	58	47	29	43	59	57	45	43	50	50	56	44	63	64	44	42	50	59	42	47	66	..	..	..	49.8
	Minimum	34	29	35	24	23	23	27	28	36	26	14	14	37	40	27	16	16	40	20	20	31	42	30	27	29	37	30	26	..	..	..	27.9
Birchtree	Maximum	49	44	44	41	46	62	67	63	55	42	43	60	61	60	46	51	50	60	48	65	65	60	49	43	56	48	50	68	..	..	..	53.4
	Minimum	36	36	39	25	12	33	32	32	32	25	15	32	40	35	28	23	38	40	20	28	48	39	31	30	33	30	28	30	..	..	..	31.1
Eldon §§	Maximum	47	37	30	49	60	64	52	45	50	45	67	60	36	41	55	50	46	49	59	66	39	50	51	52	43	70	69	..	..	..	..	[a]51.2
	Minimum	37	37	23	19	20	33	33	34	26	17	17	38	35	21	20	22	41	19	19	38	36	27	27	32	33	31	31	31	..	..	..	28.5
Farmington	Maximum	42	46	42	38	45	60	63	56	49	40	45	60	49	40	41	60	50	58	41	64	67	59	40	47	56	48	41	65	..	..	..	50.4
	Minimum	33	34	38	23	26	28	30	36	36	25	18	32	38	35	27	19	39	38	20	28	42	33	28	28	40	33	30	29	..	..	..	30.9
Hollister	Maximum	58	58	56	52	58	65	64	60	74	60	55	58	75	59	60	59	60	58	60	59	60	58	70	60	61	58	64	73	..	..	..	61.1
	Minimum	39	38	36	25	28	20	21	20	23	18	15	16	18	36	38	37	25	22	20	18	22	24	25	35	38	34	34	25	..	..	..	26.8
Koshkonong	Maximum	45	45	45	43	48	62	67	64	57	40	45	63	64	62	47	53	57	50	46	65	69	74	54	44	65	62	63	71	..	..	..	56.1
	Minimum	39	38	37	27	23	35	39	37	38	27	19	37	45	38	31	24	38	45	21	31	58	41	33	32	42	35	31	31	..	..	..	34.7
Lebanon §§	Maximum	46	63	46	39	52	64	66	62	46	34	43	68	69	44	45	55	56	52	42	62	62	43	52	47	54	42	59	69	..	..	..	52.9
	Minimum	32	31	35	21	17	26	47	30	30	23	16	18	41	36	21	20	24	45	18	18	38	42	28	28	34	31	31	31	..	..	..	29.0
Mountain Grove	Maximum	44	46	40	37	47	58	64	62	44	35	46	67	65	49	44	44	50	58	47	64	65	47	50	44	54	40	49	68	..	..	..	51.0
	Minimum	34	33	35	24	20	23	37	33	34	24	17	19	40	43	23	22	26	39	19	19	30	41	28	29	32	33	30	31	..	..	..	29.2
Neosho	Maximum	40	52	48	48	56	53	71	66	57	47	55	70	74	71	70	62	56	56	44	64	63	56	58	57	55	54	55	71	..	..	..	58.2
	Minimum	31	35	27	27	18	32	31	24	36	25	11	40	41	32	22	20	42	31	19	34	53	38	30	38	35	31	29	33	..	..	..	30.9
Rolla	Maximum	46	48	47	37	51	57	65	64	53	42	45	68	67	57	38	52	53	50	39	64	66	60	52	52	53	49	45	72	..	..	..	53.3
	Minimum	35	36	35	22	20	37	33	33	34	25	18	40	40	35	22	22	40	33	19	32	42	34	30	29	36	33	31	35	..	..	..	31.5
Springfield	Maximum	38	47	39	32	50	56	65	57	45	34	43	67	68	55	39	54	50	54	38	61	61	48	51	45	51	41	49	69	..	..	..	50.2
	Minimum	32	38	30	25	22	37	42	37	34	22	20	36	48	34	23	27	41	24	19	35	48	32	28	34	36	31	32	38	..	..	..	32.3
Southwest Plain.																																	
Amoret	Maximum	40	46	42	37	48	61	66	64	68	41	45	68	61	40	41	55	53	51	43	57	56	48	54	53	51	46	51	68	..	..	..	51.9
	Minimum	28	32	36	25	20	32	30	28	32	24	19	27	35	34	19	17	37	25	17	35	38	33	25	27	33	31	30	40	..	..	..	28.9
Appleton City	Maximum	36	46	43	36	50	62	65	57	50	42	46	67	68	50	42	57	52	50	41	57	56	47	54	52	58	46	50	70	..	..	..	51.8
	Minimum	30	34	36	26	22	32	38	30	35	26	20	36	39	34	22	25	40	28	19	35	44	34	27	34	34	32	31	38	..	..	..	31.5
Clinton	Maximum	58	48	45	35	50	59	64	58	57	43	47	65	63	52	49	57	53	50	43	52	57	53	54	55	52	47	49	69	..	..	..	53.0
	Minimum	40	35	31	25	22	33	38	32	35	25	20	37	38	22	21	24	41	21	18	41	41	32	25	32	34	30	31	40	..	..	..	30.9
Harrisonville §§	Maximum	36	43	38	36	51	61	67	55	49	34	44	63	51	38	41	55	48	35	41	50	55	43	50	46	51	48	52	69	..	..	..	48.2
	Minimum	28	28	33	22	22	23	34	30	31	23	18	20	35	32	17	17	25	34	11	12	34	32	25	25	32	30	29	31	..	..	..	26.2
Lamar §§	Maximum	40	49	46	32	53	61	67	58	49	30	50	68	74	39	43	59	52	49	43	61	60	42	58	54	55	48	53	73	..	..	..	52.4
	Minimum	31	31	30	27	22	25	33	28	29	26	20	23	42	37	22	22	28	46	20	20	39	37	28	30	35	32	32	31	..	..	..	29.5
Lamonte	Maximum	42	40	44	35	51	59	65	55	46	37	45	65	52	45	41	57	51	55	54	54	54	45	50	53	47	44	44	68	..	..	..	49.9
	Minimum	30	30	30	23	20	34	35	29	33	22	19	36	35	32	19	23	41	23	21	21	39	29	24	31	29	31	30	16	..	..	..	28.0
Marshall	Maximum	42	42	42	42	48	56	60	56	47	40	44	62	56	45	38	55	51	46	37	53	53	50	49	48	46	44	49	67	..	..	..	48.9
	Minimum	31	33	32	21	21	34	34	29	34	21	18	33	32	33	18	19	38	20	10	30	36	31	22	29	35	31	30	34	..	..	..	28.2
Nevada	Maximum	43	45	44	40	51	62	68	59	49	40	47	66	72	50	41	58	51	51	43	59	62	50	57	54	50	54	51	72	..	..	..	53.2
	Minimum	30	33	32	26	23	34	41	30	35	25	21	38	41	35	21	27	40	28	19	36	48	35	28	35	34	31	31	40	..	..	..	32.0
Warrensburg	Maximum	44	43	42	34	54	59	64	64	50	42	46	65	60	50	40	56	53	50	39	53	53	50	53	51	48	44	49	67	..	..	..	50 8
	Minimum	30	34	34	24	23	32	40	30	35	24	21	37	37	32	20	26	43	26	13	35	45	32	26	32	33	31	31	40	..	..	..	30.9
Warsaw	Maximum	40	52	48	52	54	65	65	60	58	60	59	60	58	51	54	60	62	53	55	52	48	46	58	59	58	60	47	62	..	..	..	55.6
	Minimum	35	23	35	35	31	17	35	28	36	32	30	34	33	27	25	15	34	29	30	28	24	19	24	33	36	32	31	37	..	..	..	29.6
Northwest Plateau.																																	
Chillicothe §§	Maximum	34	41	35	39	48	56	59	48	44	36	40	38	47	39	39	53	43	33	37	49	49	42	47	39	48	42	48	67	..	..	..	43.4
	Minimum	30	30	32	21	21	24	32	32	33	21	20	20	31	30	15	15	24	32	9	9	31	27	24	24	29	30	27	27	..	..	..	25.0
Grant City	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Kansas City	Maximum	35	41	39	36	52	58	66	56	45	33	44	62	49	39	38	54	49	43	40	50	50	40	49	45	45	43	51	69	..	..	..	47.2
	Minimum	28	32	28	23	27	38	42	38	30	22	22	38	37	27	20	29	43	23	16	38	39	30	29	35	34	33	32	44	..	..	..	31.3
Kidder §§	Maximum	33	36	40	47	48	54	58	50	42	34	39	58	45	39	36	51	44	32	37	48	44	48	44	48	48	41	46	76	..	..	..	45.2
	Minimum	27	27	30	20	19	28	25	30	31	21	17	19	29	30	14	19	24	28	9	9	30	25	23	24	30	29	26	28	..	..	..	24.0
Lexington §§	Maximum	41	41	41	36	48	56	60	52	50	39	42	61	54	45	38	52	47	47	36	50	50	45	47	43	45	44	48	67	..	..	..	47.3
	Minimum	30	33	32	22	24	34	33	33	34	23	21	35	34	33	19	25	37	32	12	34	34	30	25	31	33	31	30	38	..	..	..	29.7
Maryville	Maximum	35	37	36	38	53	52	61	54	46	36	38	57	46	40	40	52	45	38	39	50	47	44	47	41	45	41	50	66	..	..	..	45.5
	Minimum	25	30	26	20	24	33	31	30	31	20	20	32	30	26	12	26	38	24	11	31	34	27	26	32	31	29	26	39	..	..	..	27.3
Oregon	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph	Maximum	31	39	36	36	54	58	60	56	42	33	41	59	47	38	40	52	47	36	39	47	48	44	47	41	44	43	50	66	..	..	..	45.5
	Minimum	26	31	27	22	28	36	36	34	24	21	23	36	34	24	18	30	36	22	14	35	36	29	28	34	34	32	30	43	..	..	..	29.4
Trenton	Maximum	41	41	38	36	45	51	53	45	48	38	38	53	47	40	40	48	44	38	33	46	49	41	42	38	45	40	44	57	..	..	..	43.5
	Minimum	31	32	29	23	25	35	31	32	30	24	22	30	31	31	16	24	35	28	17	29	35	28	25	26	32	30	28	36	..	..	..	28.4

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 4-8-26—875.

51.05
N.U.S

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXX. COLUMBIA, MO., MARCH, 1926. No. 3.

GENERAL SUMMARY.

In Missouri, the first, second and fourth weeks of March, 1926, were persistently colder than normal, but the period from about the 15th to the 24th was relatively mild. The month was about normally wet, but the precipitation was somewhat more frequent and heavier over the eastern half of the State.

The spectacular feature of the month was the general and heavy snowstorm that prevailed from the 29th to the 31st. From the Ozarks northward embracing three-fourths of the State, amounts ranged from about 6 to over 14 inches. Quite high winds attended the snowfall, causing much drifting to depths of 4 to over 6 feet, and resulting in the most extensive blockades of highways in recent years at this time of the season. No actual destruction of property was reported.

The usual farming operations were retarded by frequent rains and too much cool weather, especially the last week, when field work usually is well underway. Wheat made little growth but was not injured; some of the late sown was thin and poor with outcome uncertain. All farm roads were in bad condition and the usual business intercourse between town and country was mainly carried on by means of horse-drawn vehicles.

The apple and strawberry crops were not damaged although a part of the peach crop in the southern counties was injured by low temperatures. All garden and truck planting was delayed.

TEMPERATURE.

The monthly mean temperature for the State, based upon the records of 63 stations was 39.6 degrees, or 4.2 degrees below the normal, and about 8 degrees colder than the same month last year. From about the 15th to the 24th temperature changes were mainly unimportant and most of the time above normal, with a few quite markedly mild, pleasant afternoons. The first two weeks and the last week were outstandingly cold. For the month, as a whole, there were 25 days with minimum of 32 degrees or lower in the northern counties; about 21 days in the central counties, and 16 days in the southern counties. The 13th was a widespread cold day, with minimum values ranging from 8 degrees to 11 degrees above zero. The afternoon temperatures of the 23d and 24th ranged from 75 degrees to 80 degrees and higher.

PRECIPITATION.

The monthly precipitation, based upon the records of 100 stations, was 2.89 inches, and slightly less than the normal. The deficiency was somewhat more marked in the northwest section and in most of the Ozark Plateau than in other parts of the State. Over the eastern half of the State some precipitation, little or much, fell almost daily, but in other divisions there were intervals of several days of fair weather between the set wet spells.

SNOWFALL.

The outstanding feature was a general snowstorm that began on the 29th and continued into the 31st. Depths were unusual for so late in the season, and because of the high attending winds, there was much drifting, and the greatest tie-up of general traffic known in many years for so late in the month. From about Vernon County north to the Missouri River thence east and northeast to Pike and Lewis Counties depths on a level ranged from 10 to 14 inches, but there were drifts of from 4 to more than 6 feet. Highways were blocked. R. F. D. Carriers were unable to make their routes; railway trains were delayed and all automobile movements were suspended. Outside of the loss occurring as the result of suspended business of the traffic lines, there was no direct damage or loss reported. The telegraph and telephone companies were not noticeably handicapped by the storm.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---4th, 10th, 11th, 20th, 22d, and 30th.

Hail.---Few small stones fell at Neosho and Seligman on the 19th, and Warrensburg on the 26th.

Halos, lunar.---21st, 26th, and 27th.

Halos, solar.---9th, 21st, and 27th.

Sleet.---light without damage, at Amoret on the 1st, and Seymour on the 10th, 14th, and 31st.

Thunderstorms.---6th, 19th, 20th, 22d, 30th, and 31st.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Max. velocity. Direction.	Max. velocity. Date.
Columbia	30.07	79	67	207	56	8,049	10.8	46	nw.	1
Hannibal	30.06	78	..	...	..	8,094	10.9	38	nw.	1
Kansas City	30.10	76	59	256	69	10,671	14.3	46	nw.	1
St. Joseph	30.09	78	52	248	67	8,641	11.6	42	nw	7
St. Louis	30.06	75	62	158	43	10,930	14.7	46	nw.	6
Springfield	30 10	78	59	188	51	9,533	12.8	40	nw	1
Cairo, Ill	30.08	73	55	...	..	8,364	11.2	42	sw.	31
Keokuk, Iowa	30.09	79	63	178	48	7,447	10.0	36	nw.	1

COMPARATIVE DATA FOR MARCH.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	38.5	−4.8	90	1	4.02	+1.11	....	....	10	....	....	....
1889	44.3	+1.0	84	13	1.98	−0.93	....	....	5	....	....	....
1890	37.3	−6.0	76	−11	2.61	−0.30	....	5.7	8	....	....	....
1891	36.6	−6.7	78	−11	3.01	+0.10	....	7.1	10	....	....	....
1892	38.9	−4.4	87	5	3.11	+0.20	....	....	8	8	10	13
1893	40.5	−2.8	86	1	2.86	−0.05	2.15	3.2	7	11	10	10
1894	47.7	+4.4	89	2	2.93	+0.02	3.20	0.2	6	15	9	7
1895	42.4	−0.9	98	0	2.14	−0.77	3.00	4 4	9	14	7	10
1896	39.2	−3.9	82	2	2.05	−0 86	4 47	5.2	8	11	9	11
1897	44.2	+0.9	93	− 5	6.07	+3.16	4.10	1.0	2	9	9	13
1898	44.7	+1.4	83	9	7.09	+4.18	3.87	0.6	11	11	7	13
1899	37.4	−4.1	78	− 8	2.93	+0.02	4.30	8.9	16	9	11	11
1900	40.4	−1.9	88	− 4	1.48	−1.43	3.41	0.2	6	15	9	7
1901	42.7	−0.6	85	− 1	3.74	+0.83	3.21	1.8	8	11	8	12
1902	45.3	+2.0	85	1	3.49	+0.58	5.60	0.8	9	10	10	11
1903	46.8	+3.5	81	9	3.35	+0.44	6.19	1.1	8	13	7	11
1904	44.8	+1.5	87	8	4.14	+1.23	7.50	1.2	9	11	9	11
1905	50.3	+7.0	88	10	2.99	+0.08	2.67	T.	8	11	8	12
1906	34.6	−8.7	75	− 5	3.93	+1.02	3.00	8.6	11	6	7	18
1907	53.9	+10.6	95	16	2.82	−0.09	3.08	1.0	7	14	7	10
1908	50.1	+6.8	89	14	2.58	−0.33	2.55	1.0	7	14	7	10
1909	44.5	+1.2	81	9	3.07	+0.16	3 30	0.6	6	13	9	9
1910	55.8	+12.5	96	15	0.66	−2.25	2.25	0.1	2	20	7	4
1911	46.8	+3.5	91	5	1.85	−1.06	2.00	1.4	6	16	8	7
1912	35.2	−8.1	89	− 4	4.62	+1.71	2.85	16.5	11	12	6	13
1913	40.6	−3.7	84	−12	4.36	+1.31	7.97	5.0	9	12	8	11
1914	43.2	−1.3	87	− 2	2.75	−0.41	3.01	4.7	8	13	7	11
1915	36.4	−8 1	70	6	1.50	−1.74	1.85	7.9	6	7	8	16
1916	47.0	+1.3	95	− 2	2.53	−0.65	4.25	3.1	7	14	8	9
1917	45.2	+1.7	86	− 7	2.91	−0.42	4.08	1.5	7	15	7	9
1918	50.9	+7.8	95	8	0.94	−2.05	2.25	0.1	4	18	6	7
1919	46.3	+2.9	90	− 2	2.40	−0.69	5.37	0.7	6	15	8	8
1920	44.6	+1.4	86	− 6	5.01	+2.09	6.00	1.4	8	15	6	10
1921	51.9	+8.5	90	11	4.69	+1.68	2.88	0.5	10	13	9	9
1922	45.6	+1.4	80	3	6.46	+3.38	4.00	2.2	12	11	6	14
1923	40.4	−3.1	83	−11	4.12	+1.00	2.84	2.3	8	14	6	11
1924	38.4	−5.4	80	8	2.55	−0.45	2.38	9.4	8	8	8	15
1925	47.7	+3.9	86	− 5	1.95	−1.05	2.55	0.8	5	17	8	6
1926	39.6	−4.2	83	8	2.89	−0.11	1.77	7.0	8	13	6	12

Climatological Data for March, 1926.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
runswick	Chariton	652	46	38.6	− 3.3	76	23	14	13	48	2.16	−0.40	0.85	17.0	9	17	0	14	nw.	O. K. Benecke
lifton Hill	Randolph	731	26	37.6	− 4.6	76	23	11	13	45	3.30	+0.65	0.84	16.3	10	11	7	13	.....	Dr. A. J. Bradsher
olumbia	Boone	748	35	37.8	− 4.8	72	17	12	13	42	2.43	−0.60	0.72	8.9	12	10	5	16	nw.	U. S. Weather Bureau
owning	Schuyler	878	4	36 4	......	69	9†	8	13	45	1.28	−1.08	0.37	5.5	6	11	4	16	n	E. E. St. Clair
ayette	Howard	661	45	36.2	− 5.9	75	23	12	13†	48	1.91	−0.90	0.50	7.0	5	..	.	..	......	J. D. Settle
ulton	Callaway	818	37	37.9	− 6.5	74	19	13	13	36	2.76	−0.28	0.63	6.6	10	15	5	11	.....	Chamber of Commerce
orin	Scotland	700	38	....	......	..	..	..	..	..	1.68	−0.78	0.54	6.5	6	10	5	16	nw.	J. W. Pulliam
annibal	Marion	534	33	36.2	− 4.8	72	23	11	13	37	3.14	+0.38	1.09	17.3	11	9	6	16	nw.	U. S. Weather Bureau
efferson City	Cole	557	37	38.4	− 4.8	74	23	14	13	33	2.48	−0.34	0.50	9.5	9	17	2	12	n.	Miss Emma Swift
irksville	Adair	969	36	36.2	− 3.3	72	23	8	13	43	2.34	−0.43	0.60	13.3	7	17	4	10	nw.	Prof. J. S. Stokes
Louisiana	Pike	469	31	38.9	− 4.4	73	23	10	4	40	5.08	+2.18	1.75	12.3	11	12	1	18	w.	J. T. Farrell
Macon	Macon	875	26	36.8	− 5.8	75	23	9	13	43	3.26	+0.57	0.80	10.5	10	10	9	12	sw.	W. C. Brown
Mexico	Audrain	800	36	37.9	− 4.1	74	18	10	13	41	2.77	−0.02	0.55	8.0	11	14	3	14	w.	Mrs. Abbie Snoddy
St. Catharine(near)	Linn	800	14	37.6	− 4.9	72	23	10	13	41	2.14	−0.53	0.87	11.5	9	12	12	7	n.	L. D. Baker
St. Charles	St. Charles	456	37	41.1^{k}	− 3.3	80	24	16	4	40	2.43	−0.66	1.00	4.0	3	..	..	..	nw	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	39.6	− 4.5	80	24	15	13	32	3.95	+0.52	1.63	2·1	12	10	6	15	nw.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	38.8	− 4.8	80	24	16	13	33	3.83	+0.88	1.65	3.8	11	10	5	16	w.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	..	..	..	2.81	−0.04	0.90	16.6	11	..	..	..	...	J. C. Jewett
Steffenville	Lewis	650	27	38.3	− 4.1	75	19†	9	13	40	2.53	−0.38	0.70	12.5	8	11	9	11	n.	Frank Hall
Unionville	Putnam	1,062	32	36.0	− 2.6	72	17†	8	13	47	2.20	−0.19	1.05	10.5	7	11	10	10	n.	Geo. W. Davis
Warrenton	Warren	816	43	39.5	− 2.7	75	24	14	4	41	2.74	−0.63	0.50	8.0	12	10	8	13	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	34.8	− 4.1	71	23	10	13	41	1.92	−0.45	0.81	17.9	11	6	9	16	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	37.7	− 4.4	80	24	8	13	48	2.69	−0.12	1.75	10.3	9	11	6	14	nw.	
Southeast Lowlands.																				
Benton	Scott	340	..	....	......	..	..	..	..	..	3.30	......	1.36	0	11		..	..	....	E. R. Tirmenstein
Caruthersville	Pemiscot	265	29	45.0	− 6.2	76	22	12	13	39	5.53	+1.53	1.15	T.	9	10	5	16	n.	L. W. Dillman
Doniphan	Ripley	344	21	42.8	− 6.6	80	24	18	14	42	5.27	+1.68	1.77	T	7	9	12	10	w.	W.W. Martin
Jackson	Cape Girardeau	428	34	40.4	− 6.8	74	24	9	13	37	3.33	−1.01	0.99	T.	7	11	7	13	n.	John G. Putz
Marble Hill	Bollinger	470	30	41.8	− 5.6	78	23	14	14	46	4.10	−0 08	1.30	0	7	12	5	14	n.	R.A. DeWitt
Morehouse	New Madrid	289	24	....	......	..	..	..	..	..	3.82	−0.68	1.46	0.1	10	14	7	10	n.	John A. Spence
Parma	New Madrid	281	4	....	......	..	..	..	..	..	3.93	......	1.42	0	6	..	..	..	.....	H. W. Kendall
Patton	Bollinger	500	16	....	......	..	..	..	..	..	3.30	−0.76	0.89	T.	8	..	..	..	.....	S. P. Presnell
Poplar Bluff	Butler	329	21	43.8	− 5.0	79	24	18	2†	43	3.79	−0.73	1 22	0.5	8	15	9	7	s.	J. H. Wolpers
Cairo, Ill.	Alexander, Ill	359	50	43.0	− 4.2	77	24	20	14	37	2.79	−1.23	1.05	T.	8	8	8	15	s.	U. S. Weather Bureau
Section means and	extremes	....	..	42.8	− 5.7	80	24	9	13	46	3.92	−0.16	1.77	0.1	8	11	8	12	n.	
Ozark Plateau.																				
Arcadia	Iron	926	44	38.4	− 6.4	81	24	13	14	44	1.75	−2.32	0 73	T.	7	18	3	10	nw.	Arcadia College
Birchtree	Shannon	1,000	30	41.4	− 6.0	73	24	16	3†	40	3.35	−0.90	1.01	6.0	6	14	9	8	se.	V. H. Kirkendall
Bolivar	Polk	1,071	31	41.6	− 4.5	73	23	17	13	38	3.68	+0.64	1.35	3.6	7	16	3	12	nw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	76	24	..	..	..	2.80	−0.55	1.02	6.0	8	20	1	10	w.	H. E. Dean
Eldon	Miller	934	29	38.4	− 5.1	74	23	15	12†	40	3.21	+0.38	0 80	13.4	9	11	11	9	nw.	E. H. Shepherd
Farmington	St. Francois	918	14	40.8	− 6 1	82	24	14	14	38	2.08	−1.19	0.67	1.5	8	9	13	9	ne.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	40.4	− 6.5	75	24	14	3	40	3.58	+0.28	1.24	4.6	10	11	6	14	nw.	A. C. Leach
Goodland ††	Iron	1,000	31	40.4	− 4.5	83	24	11	14	48	3.62	−0.63	1.50	2.0	5	15	5	10	n.	F. M. Adams
Greenville††	Wayne	381	3	52.9	......	73	23†	13	3	43	4 61	......	1.59	0	6	16	3	12	n.	Wm. P. Owens
Hailey	Barry	1,350	0	...	......	..	..	..	..	..	3.11	......	1.03	3.0	8	14	7	10	w.	A. W. Madison
Hollister	Taney	735	38	43.2	− 5.5	82	24	18	3†	51	3.71	+0.48	1.50	6.0	5	14	6	11	ne.	Mrs. W. P. Chapman
Koshkonong	Oregon	958	24	44.4^{b}	− 5.2	81	24	18	3†	45	4.42	+0.61	1.20	2.4	8	17^{a}	2^{a}	11^{a}	w.	R. M. Hitt
Lebanon	Laclede	1,265	37	38.7	− 6.7	77	24	11	13†	41	2.58	−0 87	1.00	4.0	7	14	5	12	s.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	39.9	− 8.0	63	23	20	3	30	3.01	+0.56	1.20	6.0	7	18	2	11	nw.	C. S. Crow
Mountain Grove	Wright	1,463	24	39.2	− 6.8	78	23	15	3†	42	3.01	−1.33	1.12	3.7	8	11	10	10	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	44.0	− 4.2	74	17	12	7	43	2.71	−0.76	1.00	T.	8	17	1	13	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	41.6	− 3.4	77	24	13	14	44	3.05	−0.54	0.75	4.0	10	13	7	11	n.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	43.2^{a}	− 3.0	71	23	18	27	35	3.78	−0.16	0.89	4.0	11	13^{a}	4^{a}	13^{a}	sw	Floyd E. Fawver
Seymour (near)	Webster	1,612	19	40.1	− 5.1	76	24	14	27	41	2.68	−1.38	0.96	2.0	5	13	3	15	nw.	Ira H. Hailey
Springfield	Greene	1,350	37	39.9	− 5.3	71	23	18	13	32	2.51	−1 56	0.97	4.2	13	12	8	11	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	41.0	− 5.5	83	24	11	13†	51	3.06	−0.51	1.59	4.1	8	14	6	11	nw.	
Southwest Plain.																				
Amoret	Bates	831	18	41.4	− 2.5	75	23	14	7	50	2.57	+0.07	....	13.0	8	16	5	10	n.	Andrew Rood
Appleton City	St. Clair	853	31	41.4	− 3.2	76	23	20	3†	40	2.65	−0.42	0.77	9.2	10	12	13	6	nw.	W. G Bigelow
Clinton	Henry	765	32	42.9^{b}	− 1.4	75	23	20	8†	42	3.10	+0.24	0.88	12.5	6	12	11	8	nw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	38 6	− 2.3	75	17†	15	13†	45	3.29	+0.60	1.10	12.0	8	12	0	19	nw.	John H. Patterson
Lamar	Barton	980	38	41.2	− 5.0	75	23	21	3†	44	3.11	+0.21	0.90	6.5	7	16	4	11	nw.	Jesse A. Mann
Lamonte	Pettis	867	24	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	....	J. E. Wheeler
Marshall	Saline	779	36	40.2	− 2.3	77	18	14	13	48	2.88	+0.17	0.75	10.1	9	10	5	16	nw.	Dr W. H. Black
Nevada	Vernon	862	32	41.6	− 2.7	73	23	19	13†	40	1.81	−1.18	0.71	13.0	4	19	1	11	nw.	George A. Kaupp
Warrensburg	Johnson	878	38	41.6	− 2.0	74	23	17	13	42	2.57	+0.03	0.58	10.0	9	14	10	7	nw.	L. B. Johnston
Warsaw	Benton	687	25	42.8	− 4.1	78	23	11	3†	46	2.87	−0.36	0.85	8.0	9	13	5	13	n.	Everett Martin
Section means and	extremes	.....	..	41.3	− 2.8	78	23	11	3†	50	2.76	−0.07	1.10	10.5	8	14	6	11	nw.	
Northwest Plateau.																				
Avalon	Livingston	730	35	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	F. G. Ashbaugh
Bethany	Harrison	916	33	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	.....	Owen Ross
Chillicothe	Livingston	779	16	37.8	− 3.8	76	9	13	13	55	1.98	−0.80	0.86	12.2	7	16	7	8	nw.	Wm. J. Olenhouse
Conception	Nodaway	980	36	37.2	− 2.3	75	17	11	13	50	1.06	−0.69	0.33	4.0	5	11	10	10	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	39 6^{k}	......	76	17	15	13†	38	1.83	−0.92	0.79	8.8	6	22	0	9	n.	Fred L. Stiff
Grant City	Worth	1,134	21	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	B. F. Locke
Kansas City	Jackson	963	36	39.8	− 2.9	75	23	16	13	39	2.21	−0.61	0.69	12.4	11	13	9	9	nw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	36.9	− 4.3	75	17†	12	13	48	1.63	−0.67	0.60	9.0	5	18	4	9	nw	Linn Terry
King City	Gentry	1,095	0	....	......	..	..	..	..	..	1.76	......	0.70	9.6	4	..	..	..	......	D. B. Oliver
Lexington	Lafayette	688	40	40.8	− 2.1	76	23	15	13	44	2.26	−0.11	0.45	11.5	8	13	11	7	nw.	Edwin G Loomis
Liberty	Clay	859	35	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	W. F. Aull
Maryville	Nodaway	1,169	35	37.8	+ 0.6	76	23	11	13	44	1.10	−0.78	0.34	6.0	5	16	1	14	n.	J. R. Brink
Oregon	Holt	1,048	69	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	Mrs. Tom Curry
St. Joseph	Buchanan	967	17	39.0	− 3.4	76	17	15	13	45	2.22	−0.20	0.82	8.0	10	17	5	9	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	22	32.6	− 8.0	70	23	12	13	30	1.23	−0.47	0.49	9 0	4	13	7	11	nw.	Albert Volker
Trenton	Grundy	822	29	36.7	− 4.5	69	17†	14	13	39	1.59	−0.85	0.63	6.0	7	10	13	8	n.	W. H. Estes
Section means and	extremes	.....	..	37.8	− 3.4	76	9†	11	13	55	1.72	−0.61	0.86	8.8	7	15	7	9	nw.	
State means and	extremes	.....	..	39.6	− 4.2	83	24	8	13	55	2.89	−0.11	1.77	7.0	8	13	6	12	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for March, 1926.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	....	....	....	....	....	....	.20	....	....	.18	.24	....	....	T.	.04	T.	....	....	....	.16	....	.45	.05	....	....	....	....	....	....	.35	.60	2.27
Brunswick‖	Grand	....	....	....	....	....	.22	.04	....	....	.10	.17	....	....	....	.02	....	....	....	....	.14	....	.18	....	....	....	....	....	....	....	.85	.44	2.16
Clifton Hill	Chariton	T.	....	....	....	....	T.	T.	....	....	.40	.16	.01	....	.03	.03	....	....	....	.86	....	.27	....	....	....	....	....	....	.01	T.	.84	.75	3.30
Columbia***	Missouri	....	....	....	....	....	.46	T.	....	.02	.34	.01	.05	....	.07	.01	....	....	....	.17	....	.36	.10	....	....	....	T.	....	T.	.36	.48	T.	2.43
Downing	Mississippi	T.	....	T.	....	....	.26	T.	....	....	.37	....	.12	....	.08	T.	....	....	....	....	....	....	....	....	....	....	T.	....	T.	....	.36	.09	1.28
Fayette‖	Missouri	....	....	....	....	....	....	....	....	....	....	.45	....	....	....	....	....	....	....	....	.29	....	.42	....	....	....	....	....	....	....	.50	.25	1.91
Fulton‖	do	....	....	....	....	....	....	.59	....	....	.24	.36	....	.04	....	.02	T.	....	....	....	.26	....	.31	....	.06	....	....	....	....	....	.25	.63	2.76
Gorin	Mississippi	T.	....	T.	....	....	.37	T.	....	....	.54	.02	....	.09	....	....	....	....	....	.16	....	....	....	....	....	....	....	....	....	....	.50	....	1.68
Hannibal***	do	T.	T.	.01	....	....	.60	T.	....	....	.76	T.	.13	.03	.14	T.	....	....	....	.02	....	....	.25	....	T.	T.	T.	....	T.	.17	.99	.04	3.14
Hermann‖	Missouri	....	....	....	....	....	....	.62	....	....	.26	.58	....	T.	....	T.	T.	....	....	....	.60	....	.26	.02	....	....	....	....	....	....	.31	.93	3.58
Jefferson City‖	do	....	....	....	....	....	....	.25	....	....	.35	.27	....	.05	T.	T.	....	....	....	....	.50	....	.16	.05	....	....	....	....	....	....	.35	.50	2.48
Kirksville	Mississippi	....	....	....	....	....	.44	....	....	....	.52	....	.05	....	.08	....	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	.60	.60	2.34
Louisiana	do	T.	T.	.06	....	....	.42	T.	....	....	.80	.15	1.75	....	.06	.10	....	....	....	.02	....	....	.64	....	....	....	T.	....	....	T.	1.00	08	5.08
Macon‖	Chariton	....	....	....	....	....	.28	.09	....	....	.26	.41	....	....	....	.12	....	....	....	....	.21	.19	.20	....	....	....	....	....	....	....	.70	.80	3.26
Mexico‖	Mississippi	....	....	....	....	....	....	.52	....	....	.20	.45	.05	.03	....	.05	.04	....	....	....	.13	....	.55	....	....	T.	....	....	....	....	.50	.25	2.77
Milan‖	Grand	....	....	....	....	....	....	.70	....	.10	.50	....	....	....	.50	.25	....	....	....	.30	....	....	....	....	....	....	....	....	T.	....	.30	.70	3.35
Pacific‖	Meramec	....	....	....	....	....	....	.58	....	....	.28	.58	T.	.06	.03	.06	....	....	....	....	.70	....	.08	....	....	....	....	....	....	....	.38	.91	3.66
St. Catharine (near)	Grand	....	....	....	....	....	.36	T.	....	....	.53	.05	T	....	.10	.04	....	....	.01	T.	....	....	.13	....	....	....	....	....	T.	....	.87	.05	2.14
St. Charles	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.00	....	T.	T.	....	....	....	T	....	....	....	.70	.73	2.43
St. Louis (1)***	Mississippi	T.	....	....	....	....	.43	T.	T.	....	.42	.01	.12	....	.01	.02	....	....	....	1.58	.05	T.	.20	....	....	....	T.	T.	....	.01	.94	.16	3.95
St. Louis (2)	do	T.	....	....	....	....	.35	T.	....	....	.30	....	.08	....	.01	.02	....	....	....	1.65	.03	....	.19	....	....	T.	....	....	....	.02	.82	.36	3.83
Shelbina‖	do	....	....	....	....	....	....	.42	....	....	.21	.45	.07	.02	.03	.15	.01	....	....	....	....	....	.27	.03	....	....	....	....	....	....	.90	.25	2.81
Steffenville	do	T.	....	T.	....	....	.30	....	T.	....	.70	.15	.10	T.	.20	T.	....	....	....	....	....	....	.35	....	....	T.	....	....	T.	....	.45	.28	2.53
Union‖	Meramec	....	....	....	....	....	....	.65	....	....	.33	.57	....	.03	....	.07	.02	....	....	....	.40	....	.17	....	....	....	....	....	....	....	.52	.85	3.61
Unionville	Chariton	....	....	....	....	....	.40	T.	T.	....	.35	.20	.10	....	.10	T.	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	.55	.50	2.20
Valley Park‖	Meramec	....	....	....	....	....	....	.45	T.	....	.13	.60	T.	.05	....	T.	T.	....	....	....	1.00	....	T.	T.	....	....	....	....	....	....	.30	.90	3.43
Warrenton	Mississippi	....	....	....	....	....	.48	.02	....	....	.50	.22	.04	.02	T.	.03	....	....	....	.12	.20	....	.25	....	....	....	....	....	T.	....	.48	.38	2.74
Keokuk, Ia.***	do	.04	T.	.14	....	....	.19	T.	....	....	.51	.05	.03	....	.09	....	....	....	....	.02	....	....	.03	....	....	T.	T.	....	.01	T.	.81	T	1.92
Southeast Lowlands																																	
Benton	Mississippi	.01	....	....	....	....	.76	.02	....	....	.26	.24	.01	....	....	.01	....	....	....	....	.29	....	.26	....	....	....	....	....	....	....	1.36	.08	3.30
Cape Girardeau‖	do	....	....	....	....	....	....	.60	....	....	.03	.28	....	....	....	.01	.02	....	....	....	.37	....	.52	.27	....	....	....	....	....	....	.16	.95	3.21
Caruthersville	do	....	....	....	....	....	1.11	....	....	....	.82	....	.19	T.	.02	....	....	....	.09	....	....	1.02	1.15	....	....	.19	....	....	....	T.	.94	....	5.53
Doniphan	Black	....	....	....	....	....	1.10	....	....	....	1.40	.40	T.	....	.10	T.	....	....	....	....	.20	T.	.30	....	....	....	....	....	....	....	1.77	....	5.27
Jackson	Mississippi	....	....	....	....	....	.61	....	....	....	.15	.25	....	T.	T.	.29	....	....	....	....	....	....	.80	....	....	....	....	....	....	....	.99	.24	3.33
Marble Hill	Mississippi	....	....	....	....	....	.65	....	....	....	.25	.35	....	....	....	.10	....	....	....	....	....	....	1.30	....	....	....	....	....	....	....	1.10	.35	4.10
Morehouse	do	....	....	....	....	....	.67	06	....	....	.22	.32	.04	....	....	.02	....	....	....	....	.38	....	.60	....	....	....	....	....	....	....	1.46	.05	3.82
New Madrid‖	do	....	....	....	....	....	.01	.85	....	....	.03	.60	....	.25	.03	....	....	....	....	.01	.10	....	.07	27	....	....	....	....	....	....	.22	.95	3.39
Parma	St. Francis	....	....	....	....	....	....	.84	....	....	.54	.38	....	....	....	....	....	....	.26	....	....	....	.49	....	....	....	....	....	....	....	1.42	....	3.93
Patton	Mississippi	....	....	....	....	....	.63	....	....	....	.21	.33	....	....	T.	T.	....	....	....	....	.22	....	.80	....	....	.01	....	....	....	....	.89	.21	3.30
Poplar Bluff	Black	....	....	....	....	.14	.57	....	....	.05	1.17	....	....	....	....	....	....	....	....	.10	....	T.	.33	....	....	....	....	....	....	.21	1.22	....	3.79
Cairo, Ill.***	Mississippi	T.	....	....	....	....	.83	....	....	....	.17	.05	.02	T.	T.	T.	....	....	....	T.	.43	T	.22	....	....	T.	....	....	....	....	1.05	.02	2.79
Ozark Plateau.																																	
Arcadia‖	St. Francis	....	....	....	....	....	....	.48	....	....	T.	.16	....	.01	T.	T.	T.	....	....	....	....	....	.10	....	....	.04	....	....	....	....	.23	.73	1.75
Birchtree	Black	....	....	....	....	....	.52	....	....	....	.90	.52	....	....	....	....	....	....	....	....	....	....	.10	....	....	....	....	....	....	....	1.01	.30	3.35
Bolivar	Osage	....	....	....	....	....	.44	....	....	....	1.35	....	....	....	....	T.	....	....	....	.12	....	....	.22	....	....	....	....	....	....	.18	1.05	.32	3.68
Dean	Neosho	....	....	....	....	....	.22	....	....	.01	1.02	.05	....	....	....	....	....	....	....	.02	....	.18	T.	....	....	....	....	....	T.	.20	.80	.30	2.80
Eldon‖	Missouri	....	....	....	....	....	.30	....	....	.26	.66	....	.04	....	.03	....	....	....	....	.65	....	.12	....	....	....	....	T.	....	T.	.35	.80	....	3.21
Farmington	St. Francis	....	....	....	....	....	.44	....	....	....	.26	.24	T.	.02	T.	.06	....	....	....	....	.02	....	.22	....	....	....	....	....	....	....	.67	.15	2.08
Fredericktown‖	do	T.	T.	....	....	....	....	.35	....	....	.55	....	....	....	....	T.	....	....	....	.22	....	....	....	....	....	....	....	....	....	.31	....	.80	2.23
Galena‖	White	....	....	....	....	....	.25	....	....	.30	.74	....	....	....	....	....	....	....	....	....	....	.20	....	....	....	....	....	....	.15	.25	.37	....	2.26
Gano	Meramec	....	....	....	....	....	.50	....	....	....	1.00	.15	T.	.13	.02	.04	....	....	....	....	.07	....	.06	....	....	....	....	....	....	....	1.24	.37	3.58
Goodland	Black	....	....	....	....	....	.72	....	....	....	1.50	.25	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.95	.20	3.62
Greenville	St. Francis	....	....	....	....	....	.60	....	....	....	.71	.33	....	....	....	T.	....	....	....	....	....	....	1.59	....	....	....	....	....	....	....	1.00	.38	4.61
Hailey	White	....	....	....	....	....	.30	....	....	.03	.92	....	....	....	....	....	....	....	....	....	.18	.30	.05	....	....	....	....	....	....	....	1.03	.30	3.11
Hollister	do	....	....	....	....	....	....	....	....	....	1.50	....	....	....	....	....	....	....	....	....	....	.60	....	....	....	....	....	....	.01	....	1.40	.20	3.71
Houston	Gasconade	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Jerome‖	do	....	....	....	....	....	.05	T.	....	....	.30	.60	T.	.05	....	.05	.12	....	....	....	.30	....	.05	....	....	....	....	....	....	....	.40	1.75	3.67
Koshkonong	Black	....	....	....	....	....	.59	....	....	....	.93	.53	....	.10	....	....	....	....	....	....	22	....	.40	....	....	....	....	....	....	....	1.20	.45	4.42
Lebanon‖	Osage	....	....	....	....	....	.06	....	....	....	1.00	.60	....	T.	T.	....	....	....	....	T.	.10	....	.07	....	....	....	....	....	T.	....	.50	.25	2.58
Lockwood	do	....	....	....	....	....	.05	....	....	.08	1.20	....	....	....	....	T.	....	....	....	T.	....	.05	....	....	....	....	....	....	T.	.23	1.10	.30	3.01
Mountain Grove‖	White	....	....	....	....	....	.09	.24	....	....	.44	.86	....	.02	T.	T.	....	....	....	....	.24	....	T.	....	....	....	....	....	....	....	.34	.78	3.01
Neosho	Neosho	....	....	....	....	....	.21	....	....	.04	1.00	.05	T.	....	T.	....	....	....	....	.08	....	.18	....	....	....	....	....	....	T.	.10	.88	.17	2.71
Rolla	Meramec	....	....	....	....	....	.40	....	....	....	.43	.40	.03	.02	T.	.07	.05	....	....	....	.40	T.	....	....	....	....	....	....	....	.50	.75	....	3.05
Seligman	Neosho	....	....	....	....	....	.37	....	....	.09	.89	.05	....	....	T.	....	....	....	....	.50	.08	....	.11	....	....	....	....	....	.11	.14	.84	.60	3.78
Seymour (near)	White	....	....	....	....	....	.61	....	....	T.	.96	....	....	....	T.	....	....	....	....	....	....	T	.33	....	....	....	....	....	T.	T.	.57	.21	2.68
Springfield***	do	....	....	....	....	....	.21	....	....	.04	.93	.01	.01	T.	.02	.02	....	....	....	.02	....	07	.01	....	....	....	....	....	T.	.12	.97	.08	2.51
Steelville‖	Meramec	....	....	....	....	....	....	.41	....	....	.15	.47	....	.03	....	.05	.05	....	....	....	.62	....	....	.05	....	....	....	....	....	....	.36	.96	3.15
Tuscumbia‖	Osage	....	....	....	....	....	T.	.38	....	....	.38	.33	....	T.	T.	.02	....	....	....	....	.31	....	T.	....	....	....	....	....	....	T.	.70	.98	3.10
Willow Sprgs.‖ (near)	White	....	....	....	....	....	.22	.60	....	....	.48	.70	.51	....	....	....	....	....	....	....	.06	....	....	.01	....	....	....	....	T.	....	.81	.54	3.93
Southwest Plain.																																	
Amoret	Osage	....	....	....	....	....	....	....	....	.10	.35	.01	....	....	....	....	....	....	....	.32	.25	....	.40	....	....	....	....	....	....	* *	1.14	....	2.57
Appleton City	do	....	....	....	....	....	.01	....	....	.02	.60	.01	T.	T.	T.	T.	....	....	....	.30	06	....	.31	....	....	....	T.	....	T.	.11	.46	.77	2.65
Clinton	do	....	....	....	....	....	....	....	....	....	.85	....	....	T.	....	....	....	....	....	.88	....	....	.25	....	....	....	....	....	....	.04	.68	.40	3.10
Harrisonville‖	do	....	....	....	....	....	.07	....	....	....	.38	.39	....	....	....	T.	....	....	....	....	.77	....	.15	.03	....	....	....	....	....	....	1.10	.40	3.29
Joplin*	Neosho	....	....	....	....	T.	.10	....	....	.15	.98	.01	T.	T.	T.	....	....	....	....	.06	....	.28	.06	....	....	....	....	....	.02	.33	.40	....	2.39
Lamar‖	do	....	....	....	....	....	....	.05	....	....	.60	.56	....	T.	....	....	....	....	....	....	.03	....	.45	....	....	....	....	....	T.	....	.52	.90	3.11
Lamonte	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Marshall	do	T.	....	....	....	....	.15	T.	....	....	.52	T.	T	T.	.02	T.	....	....	....	.63	....	....	.50	.05	....	T.	T.	....	T.	.01	.75	.25	2.88
Nevada	Osage	....	....	....	....	....	T.	....	....	....	.56	....	....	....	....	....	....	....	....	.20	....	T.	....	....	....	....	....	....	....	.34	.71	....	1.81
Osceola‖	do	....	....	....	....	....	....	....	....	....	.74	.36	....	....	....	....	....	....	....	....	.48	....	.23	....	....	....	....	....	....	T.	.35	1.37	3.53
Warrensburg	Missouri	....	....	....	....	....	.03	....	....	....	.58	.05	T.	T.	T	....	....	....	....	.49	.01	....	.41	....	....	....	T.	....	T.	* *	* *	1.00	2.57
Warsaw	Osage	....	....	....	....	....	.10	....	....	....	.85	....	T.	T.	T.	T.	....	....	....	.52	.30	.07	.30	....	....	....	....	....	....	.03	* *	.70	2.87
Waverly‖	Missouri	....	....	....	....	....	T.	.15	T.	....	29	.22	....	T	T.	.03	....	....	....	T.	.59	....	.26	.03	....	....	....	....	T.	T.	.80	.36	2.73
Northwest Plateau.																																	
Albany‖	Grand	....	....	....	....	....	....	T.	....	....	.24	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.50	0.74
Avalon	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bethany	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Chillicothe‖	do	....	....	....	....	....	.22	T.	....	....	.38	.24	T.	T.	T.	.02	....	....	....	....	T.	....	.14	T.	....	....	....	T.	.12	....	* *	.86	1.98
Conception	Missouri	....	....	....	....	....	.30	T.	....	....	.33	....	T.	....	T.	T.	....	....	....	....	....	....	.05	....	....	....	T.	....	.08	....	.30	....	1.06
Edgerton	do	....	....	....	....	....	....	....	....	T.	.79	....	T.	....	T.	....	....	....	....	....	....	.13	T.	....	....	....	....	....	.02	.13	.36	.40	1.83
Gallatin‖	Grand	....	....	....	....	....	T.	....	....	....	.50	T.	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	.41	T.	0.91
Grant City	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Kansas City***	Missouri	....	....	....	....	....	.11	T.	....	.04	.60	....	T.	....	.01	....	....	....	....	.24	....	.02	.10	....	....	....	....	....	.01	.35	.68	.05	2 21
Kidder‖	Grand	....	....	....	....	....	.20	....	....	....	.40	....	....	....	....	....	....	....	....	....	....	....	.13	....	....	....	....	....	....	....	.30	.60	1.63
King City	Missouri	....	....	....	....	....	.20	....	....	....	.66	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.70	.20	1.76
Lexington‖	do	....	....	....	....	....	.13	....	....	....	.37	.27	....	....	....	.06	....	....	....	....	.35	....	.25	....	....	....	....	....	....	....	.45	.38	2.26
Liberty‖	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Maryville	do	....	....	....	....	T.	.16	T	....	....	.34	....	T.	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	.10	....	.20	.30	1.10
Oregon	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
St. Joseph***	do	....	....	....	....	....	.23	T.	....	.10	.74	T.	.01	....	01	....	....	....	....	T.	....	T.	.17	....	T.	....	....	....	.02	.22	.67	.05	2.22
Tarkio	do	....	....	....	....	....	T.	....	....	....	.43	....	....	....	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	.27	....	.49	....	1.23
Trenton	Grand	T.	....	....	....	....	.27	T.	....	....	.63	....	T.	....	T.	.04	03	....	....	T.	....	....	.06	....	....	....	T.	....	T.	.26	.30	....	1.59

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for March, 1926.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	45	28	32	45	44	43	31	43	62	43	48	34	32	41	41	59	74	73	59	67	60	63	76	62	43	35	67	52	40	30	37	48.7
	Minimum	39	24	17	17	21	28	20	19	21	33	32	32	14	16	27	25	28	37	47	37	38	43	39	45	36	22	19	28	28	27	23	28.5
Columbia	Maximum	51	32	34	40	44	44	31	40	57	45	38	37	29	38	41	59	72	71	60	61	57	55	71	66	44	51	42	45	42	30	34	46.5
	Minimum	32	21	18	19	25	29	22	20	26	38	32	19	12	23	28	27	30	45	51	39	37	45	37	44	30	23	21	34	29	27	23	29.2
Fayette§§	Maximum	33	40	25	26	41	41	33	49	51	43	40	39	34	40	49	61	72	73	61	64	59	59	75	69	50	37	46	48	41	30	35	47.2
	Minimum	26	24	14	14	23	24	20	18	18	21	30	30	12	12	24	22	24	28	42	37	36	37	34	40	35	20	17	19	29	26	21	25.1
Hannibal	Maximum	50	30	27	35	38	42	30	37	54	42	40	36	26	32	37	54	65	69	65	58	54	51	72	66	44	32	41	46	39	33	33	44.5
	Minimum	30	16	19	15	22	30	22	15	24	34	28	19	11	20	19	27	28	50	50	41	37	44	40	44	28	22	23	31	30	27	23	28.0
Jefferson City §§	Maximum	47	32	41	42	47	45	25	41	57	42	38	38	31	42	43	43	55	73	60	62	58	53	74	71	44	33	45	44	45	32	34	46.4
	Minimum	41	23	17	18	22	28	23	20	25	33	33	32	14	19	30	27	28	40	51	43	38	44	41	50	40	23	21	31	34	30	22	30.4
Kirksville	Maximum	58	32	29	40	39	39	30	39	52	47	46	44	30	34	37	51	68	69	64	59	56	61	72	70	58	37	42	48	43	34	36	47.2
	Minimum	30	15	16	14	14	29	16	12	25	32	17	20	8	20	24	25	25	43	47	35	31	41	37	50	32	13	17	23	24	24	20	25.1
Louisiana	Maximum	64	52	40	38	38	42	42	38	57	54	40	38	28	32	38	55	65	72	68	62	57	55	73	68	60	48	42	40	45	44	44	49.6
	Minimum	34	20	18	10	22	30	22	16	20	32	32	22	16	20	15	26	25	48	46	36	38	43	36	46	48	24	24	26	28	26	25	28.2
Macon§§	Maximum	42	27	32	43	41	51	27	41	60	43	45	34	31	37	40	55	70	73	60	67	60	60	75	68	40	34	45	54	45	29	37	47.3
	Minimum	31	20	15	15	20	24	19	15	17	32	30	30	9	12	22	25	27	32	50	37	34	41	38	47	37	19	16	29	26	25	20	26.3
Mexico§§	Maximum	48	25	30	35	45	40	29	43	62	55	38	38	33	36	46	61	70	74	65	65	59	56	73	70	45	35	45	49	43	37	38	48.0
	Minimum	38	23	17	16	20	25	20	19	20	30	30	31	10	13	26	27	29	35	48	38	37	39	41	45	36	21	21	27	31	28	22	27.8
St. Catharine	Maximum	53	31	32	42	39	40	33	39	55	51	45	44	28	37	40	54	68	68	63	60	56	59	72	65	56	36	43	47	43	34	33	47.4
	Minimum	32	20	16	16	23	33	18	15	24	36	30	24	10	20	28	26	27	47	47	35	36	42	37	48	34	19	18	30	25	25	21	27.8
St. Louis(1)	Maximum	54	33	32	36	40	44	32	39	56	47	41	39	27	36	42	61	62	71	62	59	52	55	73	80	50	33	41	47	49	39	35	47.3
	Minimum	33	21	20	19	23	32	26	22	29	39	35	21	15	21	28	30	30	52	54	45	38	45	47	50	33	25	27	32	36	34	25	31.8
Unionville	Maximum	58	33	34	36	40	37	32	40	58	55	48	45	30	33	35	46	72	70	65	54	58	60	72	70	53	36	40	44	38	34	35	47.1
	Minimum	30	13	14	12	20	30	12	11	25	32	26	20	8	20	25	24	25	35	40	30	34	40	40	50	30	16	16	26	22	24	20	24.8
Warrenton	Maximum	68	40	30	39	41	43	44	38	57	54	41	36	28	36	38	59	67	71	69	62	58	53	73	75	67	40	40	44	46	46	32	49.5
	Minimum	39	22	16	14	21	33	23	19	25	38	33	27	15	18	24	25	26	47	49	40	35	43	41	50	38	22	20	29	31	30	22	29.5
Southeast Lowlands.																																	
Caruthersville	Maximum	53	51	50	54	51	50	47	48	62	55	53	44	31	40	51	55	62	60	65	68	73	76	74	78	64	59	55	61	60	53	49	56.5
	Minimum	39	30	32	30	27	29	28	22	40	37	35	15	12	19	29	30	38	39	39	47	48	37	50	50	33	29	32	38	40	30	32	33.4
Doniphan	Maximum	54	50	48	47	44	47	47	49	55	48	50	45	41	36	46	62	68	72	64	65	58	65	75	80	73	38	47	50	52	50	50	54.1
	Minimum	29	30	19	19	24	36	28	26	22	22	30	34	23	18	20	30	33	41	52	51	40	41	39	46	31	28	22	33	34	43	28	31.4
Jackson	Maximum	55	44	35	35	40	41	41	40	51	48	43	47	40	38	41	62	60	69	65	60	60	59	69	74	73	53	41	47	49	48	52	51.0
	Minimum	41	26	17	20	21	34	36	22	21	39	34	33	9	18	17	25	23	33	49	48	34	45	35	44	40	25	22	27	27	32	27	29.8
Poplar Bluff	Maximum	58	51	46	50	49	46	47	53	59	53	50	52	41	42	49	71	64	75	66	71	61	70	77	79	71	46	52	53	54	50	50	56.6
	Minimum	26	18	21	23	35	28	24	20	41	35	29	21	18	25	22	29	37	52	51	37	49	38	39	39	28	23	29	32	43	28	22	31.0
Cairo, Ill.	Maximum	54	38	38	37	44	47	45	44	53	50	45	44	28	37	45	67	60	72	69	61	60	63	69	77	61	43	43	50	53	55	55	51.8
	Minimum	36	23	21	23	25	37	31	27	31	38	36	26	21	20	24	30	31	47	52	45	40	48	43	53	42	30	27	32	38	45	30	34.2
Ozark Plateau.																																	
Arcadia§§	Maximum	52	35	47	45	42	45	38	46	57	42	47	40	31	39	44	66	64	70	62	64	59	61	76	81	44	35	46	52	49	42	35	50.2
	Minimum	32	28	17	15	16	21	25	21	19	21	33	30	16	13	19	23	23	26	40	48	35	37	37	39	40	24	20	24	25	29	24	26.5
Birchtree	Maximum	63	48	45	48	46	45	47	47	59	52	40	43	36	43	42	62	60	70	62	60	59	65	60	73	66	40	42	49	49	48	46	52.1
	Minimum	43	29	16	20	22	36	20	22	22	32	32	30	18	16	28	22	30	40	48	35	38	47	40	48	39	25	20	32	38	40	24	30.7
Eldon §§	Maximum	36	46	43	47	47	35	43	60	42	37	40	44	46	45	63	70	72	61	62	58	55	74	69	43	32	46	46	43	35	34	39	48.8
	Minimum	31	17	17	18	25	22	20	20	25	33	31	15	15	31	25	29	30	43	41	38	45	42	41	39	23	20	25	35	29	22	18	27.9
Farmington	Maximum	61	40	41	38	48	49	44	43	58	46	45	40	30	39	41	63	63	72	68	59	52	59	74	82	67	40	44	50	51	45	34	51.2
	Minimum	40	24	17	18	18	32	27	21	27	39	34	28	16	14	27	27	25	42	50	42	36	42	41	50	40	24	20	26	29	38	24	30.3
Hollister	Maximum	70	60	56	55	46	48	50	48	54	56	58	56	52	54	50	70	69	75	78	80	78	80	75	82	70	50	50	51	49	40	48	59.9
	Minimum	43	36	18	20	26	28	30	29	20	22	29	22	20	22	20	19	22	30	29	32	30	36	38	41	39	20	18	26	20	18	20	26.5
Koshkonong	Maximum	60	59	45	48	43	47	59	51	57	49	41	47	43	47	46	73	74	72	74	..	76	..	73	81	70	46	45	58	50	54	47	[b]56.4
	Minimum	45	32	18	18	23	36	26	25	28	32	32	32	21	20	29	28	32	49	48	..	39	..	45	52	41	28	22	33	39	41	25	[b]32.4
Lebanon§§	Maximum	55	39	49	46	46	51	38	44	58	44	39	41	32	44	44	65	69	70	67	63	61	52	74	77	40	32	46	42	45	41	33	49.9
	Minimum	39	31	15	18	21	25	21	19	21	35	31	30	11	11	24	24	31	35	45	39	37	37	39	43	36	21	16	16	31	31	21	27.5
Mountain Grove	Maximum	41	46	50	41	44	37	45	55	39	40	38	33	43	42	63	66	70	61	69	60	52	72	78	51	38	48	44	48	44	39	46	49.9
	Minimum	40	31	15	15	21	25	23	20	20	30	32	30	16	16	24	24	32	33	46	44	37	41	40	44	37	23	17	20	33	37	22	28.6
Neosho	Maximum	70	60	55	56	54	53	48	52	55	53	44	45	41	54	51	68	74	71	68	65	67	65	73	72	66	42	48	48	45	44	38	56.3
	Minimum	41	33	19	24	35	35	12	21	26	41	34	28	22	22	28	25	37	48	51	44	31	43	36	52	38	25	17	25	36	31	24	31.7
Rolla	Maximum	45	45	47	46	45	44	45	42	60	56	42	46	32	43	42	70	68	70	67	67	62	56	74	77	64	40	46	44	50	47	35	52.2
	Minimum	41	28	15	18	22	35	31	26	22	36	33	32	26	13	28	26	28	43	43	44	36	45	40	51	38	22	18	30	35	32	21	31.0
Springfield	Maximum	53	40	48	49	41	46	39	44	50	41	40	39	30	43	42	63	70	67	60	62	57	51	71	71	43	32	43	40	44	39	32	48.1
	Minimum	38	23	20	26	26	28	23	21	31	34	33	25	18	24	30	31	38	53	51	45	41	45	43	43	32	24	22	32	36	24	22	31.7
Southwest Plain.																																	
Amoret	Maximum	68	45	50	47	48	47	40	49	55	45	46	45	32	49	46	67	75	68	62	70	60	63	75	66	61	45	45	42	40	30	34	52.1
	Minimum	37	33	20	23	28	32	14	19	22	41	33	30	17	24	18	56	25	38	47	38	40	44	45	47	33	23	16	34	28	25	23	30.7
Appleton City	Maximum	61	43	48	47	47	46	39	48	59	45	43	42	32	47	46	69	72	66	62	62	60	62	76	70	58	42	46	42	41	31	36	51.2
	Minimum	38	29	20	24	30	33	22	20	27	41	33	30	20	24	31	29	33	42	49	40	39	45	39	50	36	24	21	34	31	25	23	31.7
Clinton	Maximum	63	45	49	49	48	45	38	43	62	47	43	43	32	48	45	68	74	69	65	64	59	62	75	73	70	..	..	60	45	35	35	[b]53.6
	Minimum	38	26	21	21	33	32	21	20	26	39	32	32	20	22	22	28	32	42	50	39	38	45	45	50	45	..	..	35	32	25	22	[b]32.2
Harrisonville§§	Maximum	52	37	47	45	45	45	38	49	58	42	49	42	33	48	46	68	75	69	58	62	58	65	75	60	48	37	45	45	32	28	37	49.6
	Minimum	35	32	18	18	19	28	18	17	17	30	31	31	15	15	28	28	30	34	43	38	38	39	39	43	33	20	18	23	28	25	23	27.5
Lamar§§	Maximum	56	44	52	51	49	48	43	49	51	44	44	42	34	49	48	71	72	69	61	65	61	61	75	69	43	36	47	45	40	33	35	51.2
	Minimum	39	35	21	22	26	34	24	21	21	31	34	33	22	21	31	27	36	41	51	42	42	44	39	40	38	24	21	22	33	31	24	31.3
Lamonte	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Marshall	Maximum	60	40	40	45	45	45	33	43	64	53	45	41	33	40	42	62	74	77	67	64	61	63	75	72	57	39	46	52	46	33	35	51.4
	Minimum	37	25	16	17	25	31	19	19	22	38	32	28	14	20	29	22	26	42	47	40	37	42	38	49	35	21	19	33	29	25	22	29.0
Nevada	Maximum	57	44	51	51	48	44	42	48	55	47	45	42	33	49	48	70	72	68	60	63	61	62	73	69	58	42	47	45	41	31	35	51.6
	Minimum	39	30	21	25	32	32	23	22	28	31	33	29	19	25	30	30	32	45	50	39	39	44	40	52	35	24	19	34	30	29	23	31.7
Warrensburg	Maximum	66	44	46	47	47	46	35	45	60	53	45	44	31	45	41	65	73	72	66	64	63	63	74	73	59	43	44	47	46	31	36	52.1
	Minimum	39	29	18	20	28	32	20	19	27	41	32	31	17	23	30	29	31	45	53	40	39	41	40	50	35	22	20	34	29	27	23	31.2
Warsaw	Maximum	58	45	57	44	48	48	45	42	60	53	58	53	48	56	55	67	74	75	68	70	64	62	78	74	63	40	55	46	45	48	47	56.3
	Minimum	36	29	11	11	17	17	21	17	20	34	33	28	16	19	33	25	40	41	53	38	45	41	40	51	30	24	18	35	32	27	24	29.2
Northwest Plateau.																																	
Chillicothe §§	Maximum	44	28	38	42	42	41	31	54	76	43	66	32	33	41	39	54	74	72	61	62	58	64	75	61	43	36	46	50	37	27	36	48.6
	Minimum	35	21	20	19	20	28	20	18	21	28	31	32	13	14	27	27	28	29	46	37	37	38	38	48	33	20	16	22	25	26	22	27.1
Grant City	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Kansas City	Maximum	51	37	47	44	44	45	33	47	59	45	50	43	31	42	42	62	73	68	58	61	57	65	75	63	44	35	44	48	33	27	35	48.6
	Minimum	37	23	21	24	29	26	19	21	36	33	31	22	16	25	30	34	31	49	51	42	42	44	48	43	30	22	21	33	26	24	24	31.1
Kidder§§	Maximum	48	27	38	45	50	40	32	42	62	42	52	48	34	38	40	57	75	72	64	60	57	66	75	60	45	36	46	48	35	34	35	48.5
	Minimum	30	21	16	16	18	22	16	15	26	28	29	24	12	13	27	24	27	32	45	33	34	40	39	43	20	18	16	21	23	23	23	25.3
Lexington§§	Maximum	63	41	43	44	46	44	32	45	60	50	49	44	30	41	44	62	74	69	64	63	63	63	76	66	52	40	45	50	50	31	36	51.0
	Minimum	37	26	17	18	27	36	20	19	29	40	31	33	15	24	30	30	30	43	49	36	35	44	42	51	33	21	19	35	28	26	23	30.5
Maryville	Maximum	52	34	43	47	43	40	29	44	62	54	53	44	33	36	37	51	73	70	64	65	60	67	76	66	46	36	46	41	34	31	37	48.8
	Minimum	32	21	16	19	25	28	15	15	28	32	27	24	11	23	26	26	29	41	49	35	36	42	39	46	27	17	15	22	20	23	22	26.8
Oregon	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph	Maximum	48	35	44	46	45	42	31	45	62	44	52	44	32	39	42	57	76	71	65	64	58	66	74	61	44	36	45	45	34	27	37	48.7
	Minimum	34	20	20	21	29	25	18	19	31	33	31	21	15	27	29	30	31	50	48	39	40	44	44	41	27	20	21	27	23	24	23	29.2
Trenton	Maximum	54	33	32	40	41	38	30	36	53	48	45	42	26	36	35	49	69	68	64	58	59	61	69	60	42	38	40	44	42	31	34	45.7
	Minimum	33	20	20	19	23	30	18	17	20	35	31	26	14	20	22	27	30	50	48	35	36	35	37	38	31	21	20	32	24	24	22	27.7

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 4-26-26—875.

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UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXX. COLUMBIA, MO., APRIL, 1926. No. 4.

GENERAL SUMMARY.

In Missouri, the weather conditions during April were specially remarkable. All of the State was considerably colder and drier than normal; and all vegetation as well as farm operations were very backward.

Real winter weather prevailed as the month opened over practically all of the State, with heavy general snow over the northern half. While the first few days were the coldest, there was no reaction to normal warmth during the first half of the month, and there were only a few relatively warm days during the latter half. Killing frosts occurred late in the month, but, owing to the backward condition of vegetation, there was little damage.

Plowing made some progress in southern section but very little planting was done because of the cold condition of the soil. Wheat made little growth and in most fields plants were thin. Oats seeding was not completed until the last days of the month.

The main fruits were kept back by the prevailing low temperatures and the condition was general satisfactory. The commercial strawberry crop was two weeks later than last year.

TEMPERATURE.

The monthly mean temperature for the State, 65 stations reporting, was 49.9°, or 5.2° below the normal. It was the coolest April since 1907. The first half of the month was persistently cold, with the daily temperature deficiency ranging from about 6 to 20°. The last half was not much warmer, though there were five or six days with normal or above normal warmth. The 17th and the 30th were the only real warm days of the month, with afternoon temperatures in the 80's. The first was the coldest day generally, with minima ranging from 11 to 23° above zero, from north to south.

PRECIPITATION.

The monthly precipitation for the State, based upon the records of 99 stations, was 2.46 inches, or about 1.27 inches less than the 56 years' average. The deficiency was marked in all sections, but the rains were somewhat heavier and more frequent in the northeastern plain. The main rain periods were from the 1st to the 11th, and 22d to the 24th, and they were general for the State as a whole, but the duration and amounts probably were less conspicuous in the western sections. There was practically no precipitation from about the 12th to the 20th.

SNOWFALL.

An unusually heavy snowstorm prevailed over the northern half of the State on the 1st and 2d, especially the latter date. Depths ranged from 6 to more than 20 inches. By the evening of the 2d snow covered the ground from about 12 to 18 inches generally, while in Adair, Linn, and adjacent counties, the snow lay 20 to 24 inches deep, and drifted into gullies, railroad cuts, and other such places to several feet deep. The snowdrifts, partly a hang-over from the closing days of March, did not disappear until April 20th.

MISCELLANEOUS PHENOMENA.

Aurora.---Observed at several northern stations the evening of the 15th.

Fogs, dense.---2d, 6th, 15th, 22d, and 23d.

Frost, killing.---12th, 13th, 15th, and 19th. Little damage owing to backward vegetation.

Halos, lunar.---20th, 21st, 24th, 26th, and 28th.

Halos, solar.---8th, 14th, 21st, 22d, 26th, and 27th,.

Sleet.---2d, 5th, and 6th.

Thunderstorms.---2d, 5th, 6th, 7th, 17th, 22d, 23d, and 27th.

SPECIAL NOTES.

A strong wind, having some features of the tornado, advanced northeastward from Charitan County to Marion County, the evening of the 23d. At Keytesville, Charitan County, a few barns and poultry houses were blown down, along with some telephone poles. No persons or animals killed or injured. Damage put at about $3,000.

A hard thunderstorm with high wind occurred at Hannibal between 5 and 6 p. m. of the 23d, probably the same storm that was felt at Keytesville, about 88 miles to the southwest, earlier in the afternoon. However, no trace of storm damage could be found in between Keytesville and Hannibal, though quite high wind was mentioned by several reporters. The damage done in Hannibal and vicinity was considerable, probably about $12,000, mostly covered by wind-storm insurance. One person was slightly injured. The damage was confined to buildings.

During thunderstorms, accompanied by high wind, small hail fell for short time at Eldon and Warrensburg on the 6th; at Seymour on the 23d, and at Louisiana on the 24th. There was no damage.

A dust storm, caused by a westerly gale, swept the western border and thence across a part of the northern section of the State on the 27th. Outside of some personal discomfort there was no harm done.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

JUN 9 192

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Max. velocity. Direction.	Max. velocity. Date.
Columbia	30.05	76	60	250	63	7,231	10.0	38	nw.	25
Hannibal	30.06	76	..	...	..	7,556	10.5	38	sw.	24
Kansas City	30.07	75	61	260	65	9,235	12.8	49	nw.	24
St. Joseph	30.06	72	51	254	64	6,698	9.3	49	nw	24
St. Louis	30.04	67	54	243	61	8,719	12.1	38	n.	7
Springfield	30 07	72	54	233	59	8,280	11.5	37	nw	23
Cairo, Ill	30.04	74	54	...	..	7,880	10.9	40	sw.	27
Keokuk, Iowa	30.07	71	55	243	67	6,578	9.1	38	nw.	24

COMPARATIVE DATA FOR APRIL.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	57.9	+2.8	91	20	1.83	−1.89	....	....	5	....	....	....
1889	55.7	+0.6	90	26	2.52	−1.20	....	....	8	....	....	....
1890	56.2	+1.1	93	24	3 17	−0.55	....	....	8	....	....	....
1891	56.8	+1.7	93	15	3.90	+0.18	....	....	9	....	....	....
1892	53.1	−2.0	88	26	5.66	+1.94	4.25	....	11	9	8	13
1893	53.9	−1.2	95	19	7.84	+4.12	5.50	....	12	8	9	13
1894	56.1	+1.0	93	20	3.17	−0.55	2.49	T.	8	12	10	8
1895	57.9	+2.8	100	24	1.95	−1.77	2.88	T.	7	14	8	8
1896	61.9	+6.8	92	17	3.51	+0.21	3.00	0.0	9	11	12	7
1897	54 4	−0.7	88	21	4.55	+0.83	3.50	T.	10	10	11	9
1898	52.5	−2.6	90	14	3.65	−0.07	3.25	T.	10	12	9	9
1899	54.0	−1.1	96	6	3.70	−0.02	3.76	3.8	8	12	9	9
1900	56.7	+1.6	89	21	3.36	−0.36	3 82	0.7	9	11	10	9
1901	53.3	−1.8	94	24	2.85	−0.87	2.23	1.8	8	14	7	9
1902	53.9	−1.2	95	19	2.66	−1.06	4.35	T.	11	13	11	6
1903	55.9	+0.8	91	26	3.54	−0.18	4.06	1.2	9	11	10	9
1904	49 0	−6.1	84	19	5.75	+2.03	6.10	2.7	9	15	6	9
1905	54.9	−0.2	92	20	3.19	−0.53	4.00	0.3	6	14	8	8
1906	59.5	+4.1	93	22	2.24	−1.41	2.45	0.0	8	17	7	6
1907	48.7	−6.4	89	16	3.43	−0.29	2.75	T.	8	11	8	11
1908	56.6	+1.5	90	18	5.30	+1.58	3.30	T.	11	11	8	11
1909	54.8	−0.3	93	19	4.35	+0.63	3.80	T.	8	13	9	8
1910	54.8	−0.3	95	21	3.51	−0.21	3.50	0.9	11	12	7	11
1911	53.5	−1.6	89	20	4.99	+1 27	4.27	T.	10	12	8	10
1912	56.0	+0.9	97	24	5.98	+2.26	4.50	0.7	10	13	7	10
1913	56.2	+1.2	94	25	3.33	−0.45	3.90	T.	7	16	5	9
1914	55.2	+0.1	91	18	3.14	−0.74	3.00	T.	8	12	7	11
1915	61.9	+6.5	96	18	2.03	−1.82	2.08	T.	7	16	8	6
1916	53.5	−1.8	93	21	3.23	−0.69	2.35	1.9	10	11	8	11
1917	53.2	−2.3	89	19	5.97	+2.02	4.80	1.2	12	12	6	12
1918	50.8	−4.4	93	19	5.10	+1 24	3.50	0.9	11	12	6	12
1919	55.3	+0.3	94	20	3.01	−0.64	3.25	T.	9	12	7	11
1920	50.2	−4.7	89	4	3.95	+0.15	2.98	4.8	11	11	7	12
1921	56.0	+0.9	91	19	5.37	+1.52	4.20	1.1	10	13	7	10
1922	57.3	+1.9	91	24	6.21	+2.42	5.49	T.	11	13	6	11
1923	54.2	−0.6	91	16	3.12	−0.74	2.50	0.4	8	14	8	8
1924	56.6	+1.5	95	11	2.07	−1.66	2.35	T.	6	14	8	8
1925	61.0	+5.9	92	24	4.11	+0.38	3.51	0.0	10	12	9	9
1926	49.9	−5.2	91	11	2.46	−1.27	3.19	2.4	8	14	6	10

Climatological Data for April, 1926.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	48.0	− 6.1	91	17	18	1	45	3.70	+0.22	0.84	3.0	13	18	2	10	ne.	O. K. Benecke
Clifton Hill	Randolph	731	26	47.1	− 6.4	78	30	15	1	40	3.83	−0.53	1.80	1.7	9	13	4	13	.....	Dr. A. J. Bradsher
Columbia	Boone	748	35	48.3	− 6.6	83	17	20	1	41	4.96	+1.26	3.19	0.8	11	14	4	12	ne.	U. S. Weather Bureau
Downing	Schuyler	878	4	46.5	......	84	30	19	1	40	1.69	−2.06	0.53	8.0	6	15	1	14	n.	E. E. St. Clair
Fayette	Howard	661	45	45.1	− 9.2	84	17	15	1	45	4.17	+0.63	2.07	1.0	6	..	..	..	.....	J. D. Settle
Fulton	Callaway	818	37	48.4	− 5.9	85	17†	21	1	43	2.38	−1.95	0.62	T.	11	18	3	9	.....	Chamber of Commerce
Gorin	Scotland	700	38	....	......	..	..	..	..	..	2.16	−1.84	0.77	8.0	6	12	4	14	nw.	J. W. Pulliam
Hannibal	Marion	534	33	46.6	− 6.8	83	30	19	1	34	3.93	+0.68	2.06	5.6	10	12	8	10	ne.	U. S. Weather Bureau
Jefferson City	Cole	557	37	48.1	− 8.0	85	17	17	1	40	2.01	−1.53	0.62	T.	11	18	4	8	n.	Miss Emma Swift
Kirksville	Adair	969	36	46.0	− 5.7	83	30	19	3	35	3.23	−0.41	1.20	12.0	4	13	1	16	ne.	Prof. J. S. Stokes
Louisiana	Pike	469	31	48.9	− 4.7	80	30	20	4	39	3.89	+0.51	1.95	3.0	7	20	1	9	w.	J. T. Farrell
Macon	Macon	875	26	46.0	− 7.1	84	30	17	1	44	3.92	−0.73	0.77	8.1	8	14	5	11	se.	W. C. Brown
Mexico	Audrain	800	36	48.0	− 5.7	85	17	20	1	44	4.59	+0.92	2.76	T.	10	20	0	10	e.	Mrs. Abbie Snoddy
St. Catharine (near)	Linn	800	14	46.4	− 5.0	81	30	21	3	34	3.54	+0.01	1.55	18.7	10	13	8	9	sw.	L. D. Baker
St. Charles	St. Charles	456	37	49.6	− 5.8	86	30	21	1	39	1.84	−1.84	0.47	0	6	13	7	10	nw.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	50.3	− 5.8	83	30	28	1	32	4.42	+0.90	2.02	T.	10	12	10	8	n.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	49.7	− 5.5	83	30	26	1	35	4.61	+0.60	2.38	0	10	15	6	9	ne.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	..	..	..	3.60	+0.07	1.24	5.2	10	..	..	..	....	J. C. Jewett
Steffenville	Lewis	650	27	46.8[a]	− 6.1	82	30	18	1	44	3.19	−0.42	1.70	1.2	7	13[a]	8[a]	8[a]	n.	Frank Hall
Unionville	Putnam	1,062	32	46.0	− 4.7	84	29	18	1†	42	1.50	−2.31	0.85	6.0	4	12	5	13	n.	Geo. W. Davis
Warrenton	Warren	816	43	49.5	− 5.0	84	30	20	1	39	1.89	−2.42	0.60	T.	7	14	6	10	ne.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	46.0	− 6.3	84	30	20	1	33	1.85	−1.49	0.74	9.2	7	13	5	12	sw.	U. S. Weather Bureau
Section means and	extremes	.....	..	47.6	− 6.1	91	17	15	1	45	3.22	−0.53	3.19	4.1	8	15	5	10	ne.	
Southeast Lowlands.																				
Benton	Scott	340	0	....	......	..	..	..	..	..	2.89	......	0.88	0	9	..	..	..	.....	E. R. Tirmenstein
Campbell	Dunklin	314	0	55.0	......	84	30	27	1	38	2.56	......	1.21	0	8	14	12	4	e.	Jeff. King
Caruthersville	Pemiscot	265	29	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	John T. Markey
Doniphan	Ripley	344	21	54.4	− 3.6	85	30	24	1	48	2.26	−3.11	0.78	T.	5	9	15	6	w.	W.W. Martin
Jackson	Cape Girardeau	428	34	52.6	− 4.3	83	30	23	1	45	2.11	−2.36	0.63	0	9	9	6	15	n.	John G. Putz
Marble Hill	Bollinger	470	30	53.8	− 2.9	85	30	24	1	49	2.72	−1.72	0.81	0	8	14	7	9	n	R.A. DeWitt
Morehouse	New Madrid	289	24	....	......	..	..	..	..	..	3.14	−1.12	0.95	0	10	20	6	4	n.	John A. Spence
Parma	New Madrid	281	4	....	......	..	..	..	..	..	3.01	......	1.26	0	8	..	..	..	..	H. W. Kendall
Patton	Bollinger	605	16	....	......	..	..	..	..	..	2.72	−0.76	0.56	0	11	..	..	..	....	S. P. Presnell
Poplar Bluff	Butler	329	21	55.4	− 3.8	86	30	28	3†	47	2.67	−1.80	0.85	0	9	19	5	6	s.	J. H. Wolpers
Sikeston	Scott	318	20	54.2	− 3.7	85	30	28	1	37	3.55	−0.71	1.83	T.	9	14	8	8	n.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	359	50	53.9	− 4.2	83	30	29	1	32	3.02	−0.55	1.54	0	10	10	9	11	n.	U. S. Weather Bureau
Section means and	extremes	....	..	54.2	− 3.8	86	30	23	1	49	2.79	−1.52	1.83	0	9	14	7	9	n.	
Ozark Plateau.																				
Arcadia	Iron	926	44	50.4	− 4.9	84	17†	23	1†	49	2.21	−2.41	0.50	T.	6	23	1	6	nw.	Arcadia College
Birchtree	Shannon	1,000	30	52.9	− 3.9	84	30	21	1	47	1.96	−2.76	0.70	0	6	18	7	5	nw.	V. H. Kirkendall
Bolivar	Polk	1,071	31	51.0	− 5.1	81	17	21	1	37	2.13	−1.86	0.62	0	6	13	3	14	nw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	83	4	..	..	..	2.04	−2.00	1.16	0	8	19	2	9	ne.	H. E. Dean
Eldon	Miller	934	29	49.9	− 5.5	84	29	22	1	41	1.58	−2.88	0.33	0	9	12	6	12	ne.	E. H. Shepherd
Farmington	St. Francois	918	14	50.8	− 6.1	85	30	22	1	46	2.35	−1.61	0.52	0	9	12	13	5	ne.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	52.0	− 3.6	85	17	18	1	40	1.94	−2.61	0.53	T.	7	13	8	9	nw.	A. C. Leach
Goodland	Iron	1,000	31	51.5	− 3.1	85	17	13	1	50	2.61	−2.48	1.00	0	5	15	11	4	n.	F. M. Adams
Greenville	Wayne	381	3	53.6[c]	......	83	30	22	1	51	1.97	......	0.75	0	4	19[c]	6[c]	2[c]	n.	Wm. P. Owens
Hailey	Barry	1,350	0	....	......	..	..	..	..	..	1.22	......	0.41	0	7	20	1	9	w.	A. W. Madison
Hollister	Taney	735	38	49.9	− 9.8	85	23†	20	1†	47	1.60	−2.97	0.70	0	3	13	3	14	sw.	Mrs. W. P. Chapman
Koshkonong	Oregon	958	24	55.7	− 2.1	83	17	24	1	42	2.34	−2.63	1.10	0	7	17	4	9	n.	R. M. Hitt
Lebanon	Laclede	1,265	37	48.4	− 7.3	81	17†	18	1	44	1.65	−2.53	0.50	1.0	10	12	6	12	w.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	49.8	− 6.2	76	29	21	1	34	1.74	−1.92	0.58	0	6	18	5	7	nw.	C. S. Crow
Mountain Grove	Wright	1,463	24	52.3	− 1.9	81	17	19	1	42	1.89	−2.89	0.60	0	9	11	13	6	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	53.4	− 4.6	82	30	22	1	45	1.94	−2.18	0.50	0	7	17	7	6	nw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	52.6	− 2.4	84	17†	19	1	39	2.39	−2.27	0.85	0	8	18	5	7	w.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	53.7[c]	− 2.1	80	23	22	1	42	2.90	−1.03	0.71	0	10	13[d]	3[d]	10[d]	sw	Floyd E. Fawver
Seymour (near)	Webster	1,642	19	50.8	− 4.6	80	17†	14	1	42	1.22	−2.74	0.30	0	6	15	7	8	nw.	Ira H. Hailey
Springfield	Greene	1,350	37	51.3	− 4.7	80	23	23	1	37	1.07	−2.79	0.32	0	9	14	9	7	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	51.7	− 4.6	85	17†	13	1	51	1.94	−2.36	1.16	T.	7	16	6	8	nw.	
Southwest Plain.																				
Amoret	Bates	831	18	48.8	− 5.7	83	17	11	1	44	1.79	−2.21	0.87	0	7	16	5	9	n.	Andrew Rood
Appleton City	St. Clair	853	31	50.4	− 5.4	82	17	16	1	37	2.07	−2.19	0.90	0	9	13	9	8	ne.	W. G. Bigelow
Clinton	Henry	765	32	51.8[a]	− 3.9	84	17	22	1	37	2.15	−1.89	0.70	0	8	13	8	9	ne.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	47.0	− 6.8	85	17	18	1	48	1.94	−1.45	0.65	0	7	8	0	22	ne.	John H. Patterson
Lamar	Barton	980	38	49.8	− 6.8	81	17†	19	1	46	1.97	−2.18	0.50	4.0	8	13	8	9	ne.	Jesse A. Mann
Lamonte ††	Pettis	867	24	49.0	− 6.1	85	17†	14	1	39	3.57	−0.20	1.58	0	11	14	8	8	se.	J. E. Wheeler
Marshall	Saline	779	36	49.4	− 5.0	86	17	15	1	46	3.60	−0.09	1.20	3.5	9	14	2	14	ne.	Dr. W. H. Black
Nevada	Vernon	862	32	50.8	− 4.3	82	17	15	1	37	2.28	−1.51	1.06	0	6	14	7	9	sw.	George A. Kaupp
Warrensburg	Johnson	878	38	50.4	− 5.7	83	17	19	1	43	3.57	+0.37	1.60	T.	9	15	3	12	ne.	L. B. Johnston
Warsaw	Benton	687	25	52.4	− 3.4	83	17†	18	1	41	2.19	−2.03	0.50	0	6	14	3	13	n.	Everett Martin
Section means and	extremes	.....	..	50.1	− 5.2	86	17	11	1	48	2.40	−1.46	1.60	0.8	8	13	5	12	ne.	
Northwest Plateau.																				
Avalon	Livingston	730	35	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	....	F. G. Ashbaugh
Bethany	Harrison	916	33	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	M. H. Moulton
Chillicothe	Livingston	779	16	46.0	− 7.3	85	30	17	1	45	3.43	−1.01	1.80	15.0	8	18	5	7	nw	Wm. J. Olenhouse
Conception	Nodaway	980	36	48.6	− 3.3	88	29	20	3	42	0.76	−2.05	0.35	4.0	4	8	14	8	ne.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	48.0	......	88	17†	16	1	39	3.19	−0.35	0.92	16.1	7	18	2	10	s.	Fred L. Stiff
Grant City	Worth	1,134	21	....	......	86	29	..	..	42	....	..	....	....	..	9[n]	5[n]	2[n]	sw.	W. P. Spillman
Kansas City	Jackson	963	36	49.3	− 5.5	86	17	24	3	41	2.52	−0.77	0.68	6.5	8	11	10	9	ne.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	45.7	− 6.7	86	17	13	3†	53	2.03	−1.01	0.64	7.5	8	18	0	12	nw.	Linn Terry
King City	Gentry	1,095	0	....	......	..	..	..	..	..	1.69	......	1.13	2.4	4	..	..	..	...	D. B. Oliver
Lexington	Lafayette	688	40	48.4	− 5.7	87	17	20	1	40	3.02	−0.34	0.80	2.0	8	15	4	11	s	Edwin G. Loomis
Liberty	Clay	859	35	....	......	..	..	..	..	..	....	......	....	....	..	..	..	.	......	Doran H. Coffman
Maryville	Nodaway	1,169	35	49.0	− 1.1	88	29	19	3	42	0.88	−2.03	0.41	3.0	4	15	2	13	ne.	J. R. Brink
Oregon	Holt	1,048	69	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	.	Mina Wright
St. Joseph	Buchanan	967	17	49.6	− 4.5	89	17	21	3	46	1.66	−1.27	0.98	11.0	7	14	7	9	ne.	U. S. Weather Bureau
Tarkio	Atchison	916	22	44.6	− 7.6	88	29	19	15	43	0.50	−2.67	0.35	1.5	2	15	4	11	sw.	Albert Volker
Trenton	Grundy	822	29	46.6	− 6.0	82	30	20	3	35	1.67	−1.60	0.75	10.0	5	12	8	10	s.	W. H. Estes
Section means and	extremes	.....	..	47.6	− 5.3	89	17	13	1	53	1.94	−1.31	1.80	7.2	6	14	6	10	ne.	
State means and	extremes	.....	..	49.9	− 5.2	91	17	11	1	53	2.46	−1.27	3.19	2.4	8	14	6	10	ne.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b], represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for April, 1926.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville||	Missouri	....	.10	.06	....	....	1.50	.90	....	.08	....	.50	.30	....	....	....	....	....	....	....	....	....	.19	.10	.30	....	....	.05	....	....	....	....	4.08
Brunswick||	Grand	....	.25	.36	....	....	.84	.47	....	.02	....	.27	.20	....	....	....	....	....	.02	....	....	....	.55	.23	.42	....	.04	.03	....	....	....	....	3.70
Clifton Hill	Chariton	.09	.02	.20	....	....	1.80	.02	....	.03	....	.65	....	....	....	....	....	....	....	....	....	T.	.47	.55	....	....	....	....	....	....	....	....	3.83
Columbia***	Missouri	T.	.36	....	....	.04	3.15	....	....	.08	.36	.22	....	....	....	....	....	....	....	....	....	.02	.36	.30	....	.03	....	.04	....	....	....	....	4.96
Downing	Mississippi	....	.43	.08	....	.10	.09	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.46	.53	....	....	....	....	....	....	....	....	1.69
Fayette|||	Missouri	...	.32	....	....	....	2.07	....	....	.07	....	.90	....	....	....	....	....	....	....	....	....	....	.49	.32	....	....	....	....	....	....	....	....	4.17
Fulton||	do	.30	.03	....	....	.15	.47	....	.02	....	.48	.12	....	....	....	....	....	....	....	....	....	.28	.11	.34	....	....	.08	....	....	....	....	....	2.38
Gorin	Mississippi	....	.60	.05	....	.03	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.77	.51	....	....	....	....	....	....	....	....	2.16
Hannibal***	do	.09	.37	T.	....	.03	2.03	T.	....	....	.02	.29	....	....	....	....	....	T.	....	....	....	....	.74	.33	.01	....	....	.02	....	....	....	....	3.93
Hermann||	Missouri	....	.03	.12	....	....	.40	.28	.08	....	....	.20	.12	....	....	....	....	....	....	....	....	....	.38	.20	.38	....	....	.13	.04	....	....	....	2.36
Jefferson City||	do	....	.05	.05	....	....	.10	.62	....	.05	....	.35	.03	....	....	....	....	....	....	....	....	....	.26	.20	.28	....	....	.02	....	....	....	....	2.01
Kirksville	Mississippi	....	1.20	....	....	....	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.98	.95	....	....	....	....	....	....	....	....	3.23
Louisiana	do	.16	.03	T.	....	T.	1.95	.05	....	....	....	.52	....	....	....	....	....	....	....	....	....	....	.66	....	.52	....	....	T.	....	....	....	....	3.89
Macon ||	Chariton	....	.77	.35	....	....	.70	.74	....	....	....	.18	....	....	....	....	....	....	....	....	....	....	.42	.21	.55	....	....	....	....	....	....	....	3.92
Mexico ||	Mississippi	.02	.25	.26	....	....	1.00	1.76	....	.05	....	.43	.45	....	....	....	....	....	....	....	....	....	.22	.15	....	....	....	....	....	....	....	....	4.59
Milan||	Grand	....	...	.05	....	.05	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.54	.27	.40	....	....	....	....	....	....	....	1.51
Pacific||	Meramec	....	.03	.03	....	....	.65	.42	.15	.03	....	.40	.05	....	....	....	....	....	....	....	....	....	.20	.23	.56	....	....	....	.10	....	....	....	2.85
St. Catharine(near)	Grand	.18	1.37	.03	....	T.	.16	....	....	....	.01	.16	....	....	....	....	....	....	....	....	....	....	1.19	.34	.07	....	....	.03	....	....	....	....	3.54
St. Charles	Missouri	....	.10	....	....	....	.47	T.	....	....	T.	.45	.01	....	....	....	....	....	....	....	....	....	.34	....	.47	....	....	T.	....	....	....	....	1.84
St. Louis (1)***	Mississippi	....	.03	T.	....	1.58	.56	.63	....	....	.02	.50	T.	....	T.	....	....	....	T.	....	....	.01	.52	.49	T.	....	....	.08	....	....	....	....	4.42
St. Louis (2)	do	....	.13	....	....	1.66	.72	.51	....	....	.04	.46	....	....	....	....	....	....	....	....	....	.01	.56	.43	T.	T.	....	.09	....	....	....	....	4.61
Shelbina |||	do	....	.20	.35	....	....	.74	1.24	....	....	....	.20	.02	....	....	....	....	....	....	....	....	....	.18	.30	.36	....	....	.01	....	....	....	....	3.60
Steffenville	do	.10	.40	.08	....	....	1.70	....	....	....	T.	....	....	....	....	....	....	....	T.	....	....	....	.40	.35	.16	....	....	T.	....	....	....	....	3.19
Union||	Meramec	.02	.03	.05	....	....	.47	.27	.13	.06	....	.50	.10	....	....	....	....	....	....	....	....	....	.36	.10	.46	....	....	.07	....	....	....	....	2.62
Unionville	Chariton	....	.60	....	....	T.	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.50	.35	T.	....	....	....	....	....	....	....	1.50
Valley Park||	Meramec	....	....	T.	....	....	1.50	.80	.30	....	....	.40	....	....	....	....	....	....	....	....	....	....	.20	.30	.52	....	....	....	.04	....	....	....	4.06
Warrenton	Mississippi	....	.18	T.	....	T.	.37	.13	....	....	T.	.25	T.	....	....	....	....	....	....	....	....	....	.60	T.	.33	....	....	.03	....	....	....	....	1.89
Keokuk, Ia.***	do	.02	.74	T.	....	.05	.15	T.	....	....	....	....	....	....	....	....	....	.07	....	....	....	T.	.55	.27	T.	....	....	T.	....	....	....	....	1.85
Southeast Lowlands																																	
Benton	Mississippi	....	....	.32	....	....	.09	.57	.88	....	....	.32	.18	....	....	....	....	....	....	....	....	....	.13	....	.33	....	....	.07	....	....	....	....	2.89
Campbell	St. Francis	.02	....	.31	....	....	....	....	1.21	....	....	.30	....	....	....	.10	....	....	....	....	....	....	.05	.29	.28	....	....	....	....	....	....	....	2.56
Cape Girardeau||	Mississippi	.01	....	.42	....	....	....	....	1.05	....	.02	.35	.08	.02	....	.01	....	....	....	....	....	....	.08	.07	.20	....	....	....	.16	....	....	....	2.47
Caruthersville	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Doniphan	Black	T.	T.	.38	....	....	....	.30	....	....	....	.40	....	....	....	....	....	....	....	....	....	....	.78	....	.40	....	....	T.	....	....	....	....	2.26
Jackson	Mississippi	....	....	.29	....	....	....	.27	.63	....	.03	.46	....	....	....	....	....	....	....	....	....	....	.05	.10	.25	....	....	.03	....	....	....	....	2.11
Marble Hill	Mississippi	....	....	.32	....	....	....	.81	.52	....	.05	.42	.10	....	....	....	....	....	....	....	....	....	.10	.40	....	....	....	....	....	....	....	....	2.72
Morehouse	do	....	.01	.47	....	....	....	.49	.95	....	....	.31	.12	....	....	....	....	....	....	....	....	....	.30	.05	.40	....	....	.04	....	....	....	....	3.14
New Madrid||	do	.01	....	.32	....	....	....	....	1.30	....	....	.32	.18	.08	....	.10	....	....	....	.01	....	....	.10	.32	.37	....	....	....	.02	....	....	....	3.13
Parma	St. Francis	....	.43	....	....	....	....	1.26	....	....	.31	....	.12	....	....	.04	....	....	....	....	....	....	.35	.25	....	....	....	.25	....	....	....	....	3.01
Patton	Mississippi	....	.05	.25	....	....	....	.43	.43	.04	.02	.56	.31	.03	....	....	....	....	....	....	....	....	.26	....	.34	....	....	T.	....	....	....	....	2.72
Poplar Bluff	Black	....	.38	....	....	....	....	.85	....	.10	.35	.08	.05	....	....	....	....	....	....	....	....	.02	.34	.50	....	....	....	....	....	....	....	....	2.67
Sikeston	Mississippi	T.	....	.42	....	....	.04	....	1.83	....	....	.31	.12	....	....	....	....	....	....	....	....	....	.06	.28	.43	....	....	....	.06	....	....	....	3.55
Cairo, Ill.***	do	....	.28	....	T.	.04	....	1.25	.29	....	.11	.17	.10	....	....	T.	....	....	T.	....	....	....	.47	.29	....	....	....	.02	....	....	....	....	3.02
Ozark Plateau.																																	
Arcadia ||	St. Francis	T.	....	T.	....	....	....	T.	.37	....	T.	.50	.41	T.	....	....	....	....	....	T.	....	....	.28	.29	.36	....	....	....	T.	....	....	....	2.21
Birchtree	Black	....	....	....	....	....	....	.70	.06	....	....	.35	.22	....	....	....	....	....	....	....	....	....	.30	....	.33	....	....	....	....	....	....	....	1.96
Bolivar	Osage	....	....	....	....	....	.59	....	....	....	.08	.52	....	....	....	....	....	....	....	....	....	.05	.62	.27	....	....	....	....	....	....	....	....	2.13
Dean	Neosho	....	....	....	....	01	.21	.01	....	....	.02	.11	....	....	....	....	....	....	....	....	....	23	1.16	.29	....	....	....	....	....	....	....	....	2.04
Eldon|||	Missouri	T.	.10	....	....	.11	.20	.02	....	....	.33	.24	....	....	....	....	....	....	....	....	....	.16	.13	.29	....	....	....	....	....	....	....	....	1.58
Farmington	St. Francis	....	.05	.25	....	....	....	.11	.02	....	....	.43	.48	....	....	....	....	....	T.	....	....	....	.45	....	.52	....	....	.04	....	....	....	....	2.35
Fredericktown|||	do	....	....	....	....	....	T.	....	.46	....	.07	.60	.05	....	....	....	....	....	....	....	....	....	T.	....	.35	....	....	....	.06	....	....	....	1.59
Galena|||	White	....	....	....	....	....	.28	....	....	.26	.34	....	....	....	....	....	....	....	....	.04	....	.10	.08	11	....	....	....	....	....	....	....	....	1.21
Gano	Meramec	T.	.06	....	....	....	....	.45	....	....	T.	.40	.32	....	....	....	....	....	....	....	....	....	.23	.11	.37	....	....	....	....	....	....	....	1.94
Goodland	Black	....	....	....	....	....	....	1.00	....	....	....	.40	.35	....	....	....	....	....	....	....	....	....	.50	....	.36	....	....	....	....	....	....	....	2.61
Greenville	St. Francis	....	....	....	....	....	....	.75	.48	....	....	....	....	....	....	....	....	....	....	....	....	....	.43	.31	....	....	....	....	....	....	....	....	1.97
Hailey	White	....	....	....	....	.20	....	....	....	.04	.41	.10	....	....	....	....	....	....	....	....	....	.05	.30	.12	....	....	....	....	....	....	....	....	1.22
Hollister	do	....	....	....	....	....	....	....	....	.60	.30	....	....	....	....	....	....	....	....	....	....	....	....	.70	....	....	....	....	....	....	....	....	1.60
Jerome ||	Gasconade	....	....	.05	....	....	.05	.98	....	....	....	.95	.75	....	....	....	....	....	....	....	....	....	.05	.92	....	....	....	....	....	....	....	....	3.75
Koshkonong	Black	....	....	....	....	....	....	1.10	....	....	.20	.15	.05	....	....	....	....	....	....	....	....	....	.25	....	.54	....	....	.05	....	....	....	....	2.34
Lebanon ||	Osage	.10	T.	.50	....	....	....	.15	.05	....	.08	.15	.05	....	....	....	....	....	....	....	....	....	.15	.12	.30	....	....	....	....	....	....	....	1.65
Lockwood	do	T.	T.	T.	....	....	.40	....	....	....	.23	.20	....	....	....	....	....	....	....	....	....	.04	.58	.29	....	....	....	....	....	....	....	....	1.74
Mountain Grove||	White	....	.02	....	....	....	T.	.10	.29	....	.11	.25	.60	....	....	....	....	....	....	....	....	....	.24	.08	.20	T.	....	....	....	....	....	....	1.89
Neosho	Neosho	....	.06	....	....	T.	.44	T.	....	....	.35	.50	....	....	....	....	....	....	....	....	....	.05	.32	T.	.22	....	....	....	....	....	....	....	1.94
Rolla	Meramec	....	.10	....	....	....	.85	06	....	....	.30	.26	....	....	....	....	....	....	....	....	....	12	.14	.56	....	....	....	T.	....	....	....	....	2.39
Seligman	Neosho	....	.45	....	....	....	.24	.05	....	T.	.67	.10	.09	....	....	....	....	....	....	....	....	.12	.71	....	.35	....	....	.12	....	....	....	....	2.90
Seymour (near)	White	....	.18	....	....	....	T.	.12	....	T.	.20	.21	.30	....	....	....	....	....	....	....	....	T.	....	.21	T.	....	....	T.	....	....	....	....	1.22
Springfield***	do	....	.05	....	T	T.	.08	.04	T.	T.	.32	.09	.01	....	....	....	....	....	....	....	....	.06	13	.29	T.	....	....	....	....	....	....	....	1.07
Steelville||	Meramec	T.	....	.05	....	....	....	.72	.42	....	....	.36	.08	....	....	....	....	....	....	....	....	....	.12	.10	.43	....	....	....	....	....	....	....	2 28
Tuscumbia ||	Osage	....	.05	....	....	....	.03	.22	....	T.	....	.34	.33	....	....	....	....	....	....	....	....	....	.18	.12	.26	....	....	....	....	....	....	....	1.53
Willow Sprgs. ||| (near)	White	....	....	....	....	....	....	1.06	.67	....	.11	.15	....	....	....	....	....	....	....	....	....	....	.14	.02	.43	....	....	....	....	....	....	....	2.58
Southwest Plain.																																	
Amoret	Osage	....	....	....	....	....	.25	....	....	.05	.09	.87	....	....	....	....	....	....	....	....	....	.03	.22	.28	....	....	....	....	....	....	....	....	1.79
Appleton City	do	....	.53	....	....	T.	.15	....	....	.01	.05	.90	.01	....	....	....	....	....	....	....	....	.03	.26	.13	....	....	....	T.	....	....	....	....	2.07
Clinton	do	....	.48	....	....	....	.47	....	....	....	.03	.70	.05	....	....	....	....	....	....	....	....	.02	.28	.12	....	....	....	....	....	....	....	....	2.15
Harrisonville||	do	....	....	....	....	....	.45	.20	....	....	....	.41	.03	....	....	....	....	....	....	....	....	....	.35	.07	.43	....	....	....	....	....	....	....	1.94
Joplin*	Neosho	....	.12	....	....	....	.07	.05	....	.05	.56	.03	....	....	....	....	....	....	....	....	....	.05	.65	.20	....	....	....	.03	....	....	....	....	1.81
Lamar ||	do	.32	T.	T.	....	....	....	.08	....	....	.05	.46	.08	....	....	....	....	....	....	....	....	....	.14	.50	.34	....	....	....	....	....	....	....	1.97
Lamonte	Missouri	....	....	.04	....	.05	1.53	....	....	.15	.17	.40	.02	....	....	....	....	....	....	....	....	.08	.51	60	....	....	....	.02	....	....	....	....	3.57
Marshall	do	.20	.15	.05	....	....	1.20	T.	....	....	T.	.85	.10	....	....	....	....	....	....	....	....	....	.55	.45	....	....	.05	....	....	....	....	....	3.60
Nevada	Osage	....	1.06	....	....	....	.02	....	....	T.	.13	.19	....	....	....	....	....	....	....	....	....	....	.63	.25	....	....	....	....	....	....	....	....	2.28
Osceola|||	do	....	.30	....	....	....	.25	....	....	....	....	.57	.29	....	....	....	....	....	....	....	....	....	.23	.20	....	....	....	....	....	....	....	....	1.84
Warrensburg	Missouri	T.	.26	.02	T.	T.	1.60	....	....	.05	.01	.53	....	....	....	....	....	....	....	....	....	.01	.75	.34	....	....	....	T.	....	....	....	....	3.57
Warsaw	Osage	....	.46	....	....	T.	.23	....	....	....	T.	.50	.25	....	....	....	....	....	....	....	....	T.	.50	.25	....	....	....	....	....	....	....	....	2 19
Waverly ||	Missouri	....	.46	.02	....	....	.39	.43	....	.08	....	.50	.27	....	....	....	....	....	....	....	....	....	.65	.32	.36	....	....	....	....	....	....	....	3.48
Northwest Plateau.																																	
Albany|||	Grand	....	.70	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	0.70
Avalon	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bethany	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.06	.47	....	....	....	....	....	....	....	....	....
Chillicothe |||	do	T.	1 80	T.	....	....	.03	.22	....	....	....	.22	.06	....	....	T.	....	....	T.	....	....	....	.61	.27	.22	....	T.	....	....	....	....	....	3.43
Conception	Missouri	.10	.24	....	....	T.	T.	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	T.	.35	.07	....	....	....	....	....	....	....	0.76
Edgerton	do	.92	.45	....	....	....	05	....	....	....	.02	.76	....	....	....	....	....	....	....	....	....	....	.86	.13	....	....	....	....	....	....	....	....	3.19
Gallatin ||	Grand	....	.15	T.	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	T.	.10	.30	....	....	....	....	....	....	....	0 55
Grant City	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.03	.25	....	....	....	....	....	....	....	....	....
Kansas City***	Missouri	.30	.33	....	....	.01	.30	....	T.	T.	.18	.51	....	....	....	....	....	....	....	....	....	T.	.48	.41	....	....	....	T.	....	....	....	....	2.52
Kidder ||	Grand	....	.64	.04	....	....	.10	....	....	....	....	.50	.04	....	....	....	....	....	....	....	....	....	.07	.16	.48	....	....	....	....	....	....	....	2.03
King City	Missouri	....	1.13	....	....	....	.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.09	.45	....	....	....	....	....	....	....	....	1.69
Lexington ||	do	....	.12	....	....	....	.80	.08	....	....	....	.45	.19	....	....	....	....	....	....	....	....	....	.73	.16	.49	....	....	....	....	....	....	....	3.02
Liberty ||	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Maryville	do	....	.20	....	.10	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.17	....	.41	....	....	....	....	....	....	....	0.88
Oregon	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.20	....	T.	....	....	....	....	....	....	....
St. Joseph***	do	.64	.34	....	....	T.	.12	T.	T.	T.	.15	.13	....	....	....	....	....	T.	....	....	....	....	07	.21	....	....	....	....	....	....	....	....	1.66
Tarkio	do	....	.15	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.35	....	....	....	....	....	....	....	....	0.50
Trenton	Grand	.75	T	....	....	T.	.04	....	....	....	.03	....	....	....	....	....	....	....	....	....	T.	....	.46	.39	T.	T.	....	....	....	....	....	....	1.67

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for April, 1926.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	34	35	46	52	40	43	39	53	69	57	51	60	67	40	55	76	91	57	60	73	72	65	80	58	59	70	64	62	82	85	..	59.8
	Minimum	18	24	23	24	33	31	33	30	34	37	41	33	30	37	26	32	46	36	30	35	45	56	45	50	41	36	41	39	42	55	..	36.1
Columbia	Maximum	35	34	42	59	51	53	38	52	52	57	48	54	64	50	52	72	83	53	59	72	76	60	80	55	57	67	63	59	79	82	..	58.6
	Minimum	20	29	26	31	34	34	34	30	35	40	43	34	30	34	29	42	42	38	30	41	52	52	46	46	40	36	49	40	46	58	..	38.0
Fayette§§	Maximum	36	34	47	59	40	46	37	53	54	57	48	55	66	46	48	48	84	51	60	71	75	64	80	56	60	69	63	61	78	83	..	57.6
	Minimum	15	22	23	20	31	38	32	29	29	33	38	32	22	30	25	29	42	36	25	26	45	47	47	48	39	32	33	39	29	42	..	32.6
Hannibal	Maximum	32	33	40	50	47	48	38	48	55	58	52	54	62	50	52	72	62	50	57	69	76	62	72	56	54	64	62	58	78	83	..	56.5
	Minimum	19	28	25	20	31	31	34	31	39	35	41	33	31	34	28	42	38	35	29	41	51	50	48	45	41	35	44	39	44	59	..	36.7
Jefferson City §§	Maximum	37	35	36	61	46	59	38	55	55	58	48	55	46	48	54	71	85	55	60	70	80	60	80	64	59	70	67	61	79	84	..	59.2
	Minimum	17	22	28	28	35	35	35	30	33	39	42	36	34	37	30	31	45	38	31	35	42	54	47	50	42	35	45	42	43	49	..	37.0
Kirksville	Maximum	35	31	44	43	43	34	37	46	54	58	55	55	64	61	52	73	68	51	61	70	76	66	72	64	56	64	66	61	79	83	..	57.4
	Minimum	20	25	19	22	29	27	31	26	34	32	42	28	31	33	25	40	40	29	30	35	50	54	48	46	38	37	36	34	44	55	..	34.7
Louisiana	Maximum	54	52	42	52	55	48	50	54	58	60	60	55	65	62	55	73	70	68	60	70	77	70	73	68	57	65	65	60	77	80	..	61.8
	Minimum	26	28	26	20	35	33	35	32	37	30	30	30	28	36	26	37	35	32	26	36	50	55	48	50	40	35	48	38	38	60	..	36.0
Macon§§	Maximum	33	35	44	47	37	42	37	52	58	61	52	59	65	38	54	75	70	56	61	72	75	61	74	54	58	67	61	61	80	84	..	57.4
	Minimum	17	23	20	23	31	29	31	29	35	34	42	29	31	35	24	31	43	32	28	37	48	53	47	48	37	35	45	35	40	49	..	34.7
Mexico§§	Maximum	36	36	44	59	50	49	39	51	55	59	53	53	66	45	54	74	85	54	60	72	77	60	77	76	59	68	65	61	80	84	..	60.0
	Minimum	20	26	25	22	35	32	33	30	32	35	38	32	30	33	27	31	41	35	28	35	38	51	44	46	40	39	43	38	40	47	..	34.9
St. Catharine	Maximum	31	34	45	45	44	36	37	51	52	57	53	54	63	57	52	67	69	52	58	68	74	69	71	59	53	65	62	59	79	81	..	56.6
	Minimum	29	26	21	22	30	29	32	28	36	35	42	30	32	35	25	39	46	33	29	36	48	55	45	47	38	34	51	35	45	55	..	36.3
St. Louis(1)	Maximum	39	50	46	55	53	65	57	53	55	56	49	53	62	53	50	70	72	51	55	69	79	64	72	60	57	65	66	60	79	83	..	59.9
	Minimum	28	31	31	33	36	36	36	34	38	42	44	36	37	35	30	38	42	37	34	41	54	55	53	49	44	44	50	43	47	64	..	40.7
Unionville	Maximum	36	32	42	45	44	34	38	50	57	60	56	56	66	60	55	72	67	55	60	70	76	70	72	57	56	65	64	60	84	83	..	58.1
	Minimum	18	26	18	24	24	28	30	25	25	30	40	28	30	32	24	40	42	26	32	34	48	55	46	45	35	34	48	32	42	56	..	33.9
Warrenton	Maximum	34	34	43	58	58	52	55	53	53	55	51	53	65	65	53	71	80	70	57	70	80	77	76	74	59	65	65	58	80	84	..	61.6
	Minimum	20	29	27	27	40	34	34	30	36	36	42	34	30	39	29	38	44	35	27	34	46	53	50	50	40	38	50	38	41	52	..	37.4
Southeast Lowlands.																																	
Campbell	Maximum	52	68	67	60	71	77	72	61	61	60	57	52	65	72	57	70	81	74	57	68	78	74	80	78	66	70	77	67	76	84	..	68.4
	Minimum	27	42	36	30	42	45	41	39	40	45	49	44	36	40	37	34	44	43	32	30	45	54	51	53	47	40	47	45	41	46	..	41.5
Caruthersville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Doniphan	Maximum	52	70	65	69	70	77	70	63	61	57	58	53	69	73	57	78	84	74	57	60	79	73	81	75	58	71	77	68	79	85	..	68.8
	Minimum	24	42	35	29	38	46	42	38	41	38	44	40	32	37	37	30	44	44	33	29	32	56	48	53	47	36	56	46	38	45	..	40.0
Jackson	Maximum	50	68	65	58	69	75	73	67	60	59	55	53	65	75	51	73	80	78	57	66	79	74	76	80	64	67	79	62	75	83	..	67.5
	Minimum	23	39	31	26	44	39	39	34	36	41	45	36	32	35	30	29	38	39	26	27	45	52	53	50	43	40	34	42	36	45	..	37.6
Poplar Bluff	Maximum	53	70	66	60	73	78	73	66	65	59	55	53	71	75	61	69	85	77	61	70	80	73	81	75	69	73	75	71	78	86	..	70.0
	Minimum	42	34	28	39	43	59	38	42	43	46	40	35	36	37	32	42	42	30	28	38	54	42	52	45	36	45	45	37	44	50	..	40.8
Sikeston	Maximum	51	61	62	58	72	75	68	58	61	59	61	52	65	73	52	71	80	75	56	66	80	70	78	72	65	70	77	65	76	85	..	67.1
	Minimum	28	41	35	31	43	43	41	38	39	43	48	37	38	43	35	34	44	42	30	32	45	54	53	53	46	40	47	45	41	49	..	41.3
Cairo, Ill.	Maximum	50	65	48	57	69	75	67	54	59	58	54	49	64	70	46	69	78	58	53	66	78	69	75	69	62	67	75	61	74	83	..	64.1
	Minimum	29	43	34	33	48	47	40	38	43	45	48	36	42	42	34	37	49	38	33	42	52	54	57	54	48	46	53	48	44	54	..	43.7
Ozark Plateau.																																	
Arcadia§§	Maximum	48	64	52	58	65	74	48	59	61	57	48	56	68	65	56	81	84	55	58	68	77	70	79	65	62	68	76	64	79	84	..	65.0
	Minimum	23	27	30	23	29	36	39	34	34	37	42	35	28	33	32	32	37	38	28	26	40	52	52	51	42	33	42	42	32	46	..	35.8
Birchtree	Maximum	50	64	51	57	68	76	71	61	61	58	49	56	67	65	53	78	83	75	60	68	77	70	81	75	62	69	70	65	78	84	..	66.7
	Minimum	21	41	30	29	44	41	37	34	40	41	44	37	32	36	35	31	47	40	29	33	42	45	52	49	44	35	52	43	39	49	..	39.1
Eldon §§	Maximum	36	41	63	46	69	37	65	56	59	46	55	67	51	54	73	82	55	60	70	76	61	80	57	59	71	66	62	76	84	83	..	62.0
	Minimum	22	29	28	32	37	34	31	33	38	42	36	32	35	32	32	42	39	30	35	40	51	47	48	42	39	45	42	40	46	55	..	37.8
Farmington	Maximum	51	62	47	60	60	74	68	53	55	57	49	53	64	60	50	62	84	68	54	69	77	69	77	64	60	60	58	59	81	85	..	63.0
	Minimum	22	36	34	25	43	36	36	33	36	39	44	34	40	40	31	33	48	38	27	30	49	52	52	50	42	37	41	41	35	55	..	38.6
Hollister	Maximum	50	60	59	56	75	58	59	64	62	60	58	59	70	66	64	78	64	60	55	75	76	80	85	78	62	60	58	75	80	85	..	66.4
	Minimum	20	22	21	20	24	28	30	35	40	38	40	41	29	34	32	36	34	27	30	28	29	38	40	46	45	42	40	36	34	44	..	33.4
Koshkonong	Maximum	53	69	53	68	74	76	71	61	62	56	51	49	66	69	62	77	83	78	62	69	78	69	81	75	74	76	77	77	78	82	..	69.2
	Minimum	24	40	32	32	50	46	40	36	42	42	45	40	36	40	36	35	53	46	31	36	50	53	51	50	47	40	52	44	47	49	..	42.2
Lebanon§§	Maximum	49	55	49	61	54	71	41	55	51	63	48	57	66	52	53	74	81	55	62	70	75	63	80	61	59	69	78	63	76	81	..	62.4
	Minimum	18	22	27	27	34	39	34	29	28	38	40	34	28	28	31	31	41	38	26	26	37	49	45	46	42	37	37	40	39	41	..	34.4
Mountain Grove	Maximum	48	57	52	58	66	74	69	60	61	59	55	58	68	73	55	77	81	73	57	67	74	65	79	60	60	70	71	64	77	80	..	65.6
	Minimum	19	39	28	32	45	44	35	31	39	40	42	38	29	41	32	35	50	40	28	34	48	51	43	47	43	38	47	39	40	54	..	39.0
Neosho	Maximum	60	60	50	65	64	70	69	58	58	56	51	58	67	68	54	77	80	79	61	78	74	68	81	67	65	75	73	64	77	82	..	67.0
	Minimum	22	37	28	33	41	48	35	33	44	45	47	41	29	37	31	32	51	45	33	36	51	43	46	47	45	40	56	34	37	50	..	39.9
Rolla	Maximum	48	56	48	60	59	74	68	60	58	60	53	60	68	64	55	74	84	70	62	73	79	74	81	80	60	70	73	62	79	84	..	66.5
	Minimum	19	32	28	29	43	38	35	32	37	40	42	35	32	42	32	35	45	38	30	37	50	52	46	48	43	36	52	40	41	55	..	38.8
Springfield	Maximum	54	52	48	59	61	71	46	56	54	57	46	56	63	53	50	74	79	64	57	70	71	63	80	58	57	71	66	60	75	79	..	61.8
	Minimum	23	30	29	36	42	42	34	32	41	42	42	38	38	35	31	37	57	41	32	40	52	52	52	47	44	45	49	40	44	56	..	40.8
Southwest Plain.																																	
Amoret	Maximum	36	33	43	59	54	50	48	53	50	52	48	56	65	63	55	77	83	75	59	72	70	70	80	63	61	74	67	69	78	82	..	61.5
	Minimum	11	29	20	27	34	34	33	29	39	41	41	35	29	30	26	37	45	38	29	36	50	54	45	48	40	36	52	48	34	36	..	36.2
Appleton City	Maximum	39	34	46	61	55	56	50	53	50	57	49	56	66	61	55	77	82	77	60	71	68	69	79	61	61	73	68	63	77	80	..	61.8
	Minimum	16	30	25	25	36	37	33	30	39	42	42	38	34	37	28	40	51	40	31	38	50	56	49	47	43	40	55	39	43	52	..	38.9
Clinton	Maximum	40	35	48	62	58	57	53	52	50	59	50	67	66	63	62	77	84	72	62	77	70	65	82	61	63	65	..	72	79	83	..	[a]63.2
	Minimum	22	28	25	35	35	35	32	32	38	41	42	45	32	37	38	40	52	47	47	40	50	54	48	48	43	48	..	43	43	54	..	[a]40.5
Harrisonville§§	Maximum	31	33	45	54	37	49	38	51	50	51	47	55	67	45	56	75	85	56	58	72	69	70	80	58	63	74	64	65	80	84	..	58.7
	Minimum	18	20	21	22	34	30	32	28	30	37	40	33	34	37	25	27	41	37	32	37	42	52	50	45	40	40	46	39	41	47	..	35.2
Lamar§§	Maximum	46	36	47	63	57	68	38	58	48	58	48	57	66	52	54	77	81	58	61	73	66	66	81	62	62	73	68	62	76	81	..	61.4
	Minimum	19	27	27	28	40	43	31	33	34	43	44	42	31	34	29	31	45	43	34	36	41	55	50	46	43	43	49	39	41	46	..	38.3
Lamonte	Maximum	32	34	45	65	50	54	54	54	52	56	48	56	69	53	56	76	85	55	63	74	72	67	82	57	59	74	63	63	79	85	..	61.1
	Minimum	14	27	21	28	32	32	35	29	36	38	41	34	30	34	25	39	49	38	28	38	49	53	47	47	41	35	50	39	44	52	..	36.8
Marshall	Maximum	34	34	44	57	55	47	40	54	55	57	52	57	69	65	56	75	86	82	62	74	75	68	82	60	59	72	70	64	80	85	..	62.3
	Minimum	15	25	20	24	34	32	33	30	35	35	42	33	32	35	27	39	46	36	29	35	48	54	44	47	40	36	51	40	43	53	..	36.4
Nevada	Maximum	44	37	46	62	59	58	50	54	49	58	49	58	68	62	55	77	82	65	60	71	68	69	78	60	62	72	69	63	76	81	..	62.1
	Minimum	15	30	25	31	37	38	34	30	40	43	42	40	34	37	27	40	53	40	31	38	53	53	52	44	42	41	55	39	46	55	..	39.5
Warrensburg	Maximum	37	33	44	58	56	52	45	53	54	57	51	56	66	65	55	74	83	81	62	72	70	66	79	59	59	73	72	63	78	82	..	61.8
	Minimum	19	27	24	30	34	34	33	30	38	38	42	35	33	36	27	41	53	38	32	42	52	54	50	48	41	41	56	41	46	54	..	39.0
Warsaw	Maximum	43	45	48	62	61	65	64	59	57	63	58	58	67	67	56	75	83	81	62	72	74	67	81	62	60	73	70	63	78	83	..	65.2
	Minimum	18	31	27	28	42	39	35	29	40	43	43	38	29	39	37	40	47	40	29	40	51	54	45	50	35	37	58	43	43	59	..	39.6
Northwest Plateau.																																	
Chillicothe §§	Maximum	37	34	44	48	35	36	38	48	54	57	54	55	66	37	55	76	77	55	61	73	76	67	76	55	57	70	60	63	83	85	..	57.7
	Minimum	17	23	19	18	29	30	32	27	31	34	42	31	28	33	23	31	46	33	28	37	48	56	48	48	37	30	40	37	39	50	..	34.2
Grant City	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	58	75	73	57	60	74	77	73	75	55	58	69	62	62	86	85	..	[b]68.7
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	50	46	50	33	31	39	54	54	44	44	37	32	50	33	44	57	..	[b]43.6
Kansas City	Maximum	29	34	43	53	52	40	39	49	51	50	48	54	66	53	55	73	86	54	58	73	71	70	78	59	58	74	64	64	81	82	..	58.7
	Minimum	24	26	24	32	29	30	31	31	38	40	41	34	42	32	30	45	45	35	38	45	58	56	53	49	44	47	49	42	49	58	..	39.9
Kidder§§	Maximum	31	34	40	60	32	35	40	50	54	52	50	57	71	55	59	80	86	55	60	75	76	68	75	55	59	72	60	68	84	85	..	59.3
	Minimum	17	23	13	13	27	27	30	26	27	32	34	30	31	35	23	27	42	31	29	35	40	53	46	44	36	35	38	34	35	49	..	32.1
Lexington§§	Maximum	33	35	44	50	46	40	38	51	53	52	49	55	67	58	54	75	87	57	60	72	74	66	78	57	60	72	68	62	80	83	..	59.2
	Minimum	20	26	21	25	32	31	32	29	37	37	42	33	32	36	25	42	47	36	29	36	52	55	47	48	41	39	55	41	48	56	..	37.7
Maryville	Maximum	33	37	47	46	46	34	49	52	58	56	63	62	71	65	61	78	84	63	63	77	79	75	75	58	60	73	62	65	88	87	..	62.2
	Minimum	21	27	19	28	25	29	29	27	28	35	41	30	34	38	20	43	44	31	31	40	51	54	50	44	37	36	52	33	46	55	..	35.9
Oregon	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Joseph	Maximum	30	36	42	51	43	35	45	51	56	55	58	60	68	48	58	79	89	58	60	75	75	74	76	60	60	74	61	65	85	86	..	60.4
	Minimum	26	26	21	30	28	31	32	30	40	38	43	33	36	31	26	45	43	35	32	46	58	57	51	47	42	42	48	39	51	59	..	38.9
Trenton	Maximum	36	37	38	45	41	37	38	48	53	57	56	54	64	59	54	70	65	55	57	69	74	70	62	57	56	66	60	58	81	82	..	56.6
	Minimum	24	27	20	24	29	30	32	29	39	35	42	32	34	34	26	42	45	33	30	42	43	56	50	48	40	34	38	37	46	59	..	36.7

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 5-22-26—875.

551.63
UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

L. XXX. COLUMBIA, MO., MAY, 1926. No. 5.

GENERAL SUMMARY.

he weather of May, 1926, in Missouri, was not quite so radical in its iations as characterized the same month in 1925, although during e current month there were periods in which the elements quite rkedly swung away from the usual. Most of the first ten days and e final ten days of the month were noticeably warmer than normal, ile the second and third weeks were decidedly cooler than normal in of the State.

Taking the month as a whole, the average temperature was more than legrees higher than the 36-year normal, and nearly 6 degrees warmer an last May, though most of the excess warmth resulted from the hot al ten days. The temperature distribution was in just the reverse om the usual, that is, the northern border counties were relatively armer than the southern counties. Light frost was general on the 15th, e result of rather low temperatures for May; owing to a backward op season there was little harm done.

May brought less rain than usual. The monthly fall for the State, as whole, was 2.73 inches, while the usual for this month, as based upon years' records, is nearly 5 inches. The redeeming feature in this pect was the timely and generous rainfall of the last three days, ich amounted to about 50 per cent of the entire monthly total.

May weather was not very favorable for crop development, the pro- ess being ten days or more behind the usual year. Oat, grasses, and rawberries felt the lack of moisture more than other crops. Field ork, highways, and other outdoor occupations, as well as the automo- le and most trade and traffic were favored by the prevailing weather.

TEMPERATURE.

The monthly mean temperature for the State, 69 stations reporting, s 67.0 degrees, 2.4 degrees warmer than the normal, and nearly 6 de- ees warmer than May, 1925. Most of the first and last decades were arkedly warmer than the normal, while the remainder of the month eraged about 6 degrees a day cooler than normal. There was some al cool weather during the middle of the month, frost being general the 15th, with temperatures ranging from 32 to 35 degrees in all parts the State. Owing largely to a very backward season there was little no damage. Midsummer heat obtained from the 26th to the 29th, th maxima ranging from 96 degrees to 100 degrees; and this is close but does not quite equal the record for May in other years.

PRECIPITATION.

The average precipitation for the State, 103 stations reporting, was 73 inches, or about 1.97 inches less than the 56 years' average. The onth was drier than normal in all sections, but the lack of moisture as more noticeable in the western than in the eastern sections. There s, as a rule, very little rain during the first week, and from about the th to the 28th. The principal rains fell during the last three days of he month, and amounted to about 50 per cent of the entire monthly il. There were some generous to excessive amounts on the 31st, 5.80 ches falling at Dean; other heavy falls were; Goodland, 2.90 inches; reenville, 3.00; Hailey, 4 inches; Neosho, 3.73 inches. The greatest onthly amount was 7.82 inches, at Dean, McDonald County, and the ast was 0.40 inch, at Kidder, Caldwell County.

MISCELLANEOUS PHENOMENA.

Aurora.---On the 9th, at Hannibal.

Frost, light.---On the 15th and more or less general but without amage.

Hail.----See Storm Notes.

Halos, lunar.---18th, 20th, and 25th.

Halos, solar.---2d, 4th, 5th, 6th, 7th, 9th, 12th, 13th, 16th, 20th, 21st, d, 25th, 26th, and 30th.

Thunderstorms, local.---2d, 7th, 11th, 16th, 19th, 26th, and 27th. ore or less general, attended by squalls.---8th, 9th, 17th, 18th, 21st, 9th, 30th, and 31st.

SPECIAL STORM NOTES.

Thundertorms with attending squalls and small hail occurred at ppleton City, Lexington, near St. Catharine, and Warrensburg, on he 8th. At Oregon, and Seymour on the 9th. Gano, 17th; Lockwood, 9th; Neosho, 22d. Hail of small marble size and with some some amage to tender vegetation fell at Caruthersville on the 9th, and at reenville on the 18th.

Severe hail accompanied a thunderstorm in Mississippi County, Mo., on May 9th. The storm started about 10 miles southwest of Charleston, about 4 p. m., and advanced east-northeast and crossed the Mississippi River into Kentucky. In Missouri the area averaged about one mile wide. The stones varied in size from bird eggs to hen eggs, averaging probably about the size of walnuts; at Charleston they were as large as hen eggs, with some icicle forms of 5 or 6 inches long.

The damage to crops probably was about $10,000, being somewhat moderate owing to the late season. The damage to buildings and tangible property was probably $50,000. There was high wind, but the amount of wind damage can not be separated from the damage by hail.

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PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	29.91	75	59	325	73	5,812	7.8	31	nw.	31
Hannibal	29.91	72	..	...	..	7,110	9.6	48	w.	29
Kansas City	29.89	71	47	366	83	8,427	11.3	34	nw.	31
St. Joseph	29.88	70	44	344	77	7,098	9.5	30	nw.	31
St. Louis	29.92	64	48	323	73	9,987	13.4	42	sw.	30
Springfield	29 95	70	51	322	73	7,699	10.3	33	s.	6
Cairo, Ill	29.93	71	49	...	..	6,021	8.1	50	n.	8
Keokuk, Iowa	29.91	66	53	329	74	6,109	8.2	48	s.	29

COMPARATIVE DATA FOR MAY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	62.1	−2.3	93	30	5.35	+0.58	......	0	5	....	....	....
1889	63.5	−0.9	96	28	6.56	+1.79	......	0	5	....	....	....
1890	62.8	−1.6	96	32	3.47	−1.30	......	0	6	....	....	....
1891	61.5	−2.9	97	28	4.26	−0.51	......	0	8	....	....	....
1892	60.7	−3.7	91	28	7.80	+3.03	3.90	0	17	5	9	17
1893	66.8	−2.6	94	30	5.89	+1.12	5.83	0	10	11	11	9
1894	63.7	−0.7	95	22	3.99	−0.78	4.20	0	8	13	11	7
1895	64.6	+0.2	103	28	4.08	−0.69	3.43	0	9	13	12	6
1896	70.1	+5.7	96	32	9.09	+4.32	4.66	0	12	12	12	7
1897	62 4	−2.0	93	28	2.56	−2.21	3.82	0	7	16	11	4
1898	65.2	+0.8	97	31	7.90	+3.13	5.50	0	14	12	10	9
1899	66.9	+2.5	96	34	6.26	+1.49	5.28	0	2	10	13	8
1900	66.3	+1.9	97	29	3.69	−1.06	4.00	0	10	14	11	6
1901	63.8	−0.6	98	30	1.47	−3.30	3.04	0	6	15	10	6
1902	69.4	+5.0	98	39	5.03	+0.25	4.35	0	11	13	11	7
1903	65.1	+0.7	92	23	7.10	+2.33	3.10	0	15	9	10	12
1904	63.1	−1.3	95	32	5.03	+0.26	4.33	0	12	13	10	8
1905	64.9	+0.5	94	34	4.87	+0.10	4.55	0	10	12	11	8
1906	66.3	+1.9	98	27	2.16	−2.61	3.83	0	7	15	10	6
1907	59.5	−4.9	91	17	5.56	+0.79	4.33	0	10	14	6	11
1908	66.1	+1.7	96	24	6.92	+2.15	5.65	0	12	12	10	9
1909	63.3	−1.1	96	23	5.34	+0.57	5.26	0	9	15	9	7
1910	60.1	−4.3	94	32	6.62	+1.85	4.30	0	13	11	8	12
1911	68.8	+4 4	101	27	1.55	−3.22	2.06	0	5	19	7	5
1912	67.6	+3.2	97	30	3.86	−0.91	4.90	0	7	18	8	5
1913	65.8	+1.3	101	33	3.05	−1.93	2.95	0	8	16	7	8
1914	66.6	+2.0	98	31	1.47	−3.40	3.00	0	5	17	9	5
1915	63.7	−1.4	97	30	7.86	+3.04	7.10	0	12	12	7	12
1916	65.6	+0.7	96	33	5.61	+0.89	4.10	0	11	15	8	8
1917	58.7	−6.2	91	30	4.33	−0.47	2.60	0	10	15	7	9
1918	68.3	+3.8	100	28	5.49	+0.68	5.25	0	10	16	8	7
1919	62.0	−2.5	93	35	5.80	+0.87	4.50	0	13	10	10	11
1920	63.8	−0.8	97	32	4.85	+0.04	3.70	0	12	9	9	13
1921	66.4	+2.0	102	28	3.69	−1.20	4.12	0	7	17	8	6
1922	67.2	+2.3	97	38	3.17	−1.77	2.50	0	10	14	10	7
1923	62.7	−1.9	97	25	4.59	−0.49	3.48	T.	12	11	10	10
1924	58.6	−6.0	96	31	4.67	−0.03	3.90	0	10	13	8	10
1925	61.2	−3.4	98	24	2.14	−2.56	2.86	0	7	14	9	8
1926	67.0	+2.4	100	32	2.73	−1.97	5.80	0	7	16	9	6

Climatological Data for May, 1926.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip. .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	68.8	+4.5	96	29	39	16	47	2.21	−2.68	0.52	0	13	17	4	10	se.	O. K. Benecke
Clifton Hill	Randolph	731	26	65.6	+1.4	90	26	38	15	48	4.16	−0.98	2.55	0	9	12	14	5	......	Dr. A. J. Bradsher
Columbia	Boone	748	35	67.0	+2.7	94	29	36	15	37	2.87	−1.99	0.90	0	12	13	9	9	s.	U. S. Weather Bureau
Downing	Schuyler	878	4	66.6	......	94	29	40	15	37	3.13	−1.28	1.57	0	7	21	5	5	n.	E. E. St. Clair
Fayette	Howard	661	45	64.6	+0.3	96	29	33	15	48	2.59	−2.03	0.52	0	9	..	..	..	......	J. D. Settle
Fulton	Callaway	818	37	67.0	+2.0	96	29	39	15	40	3.40	−1.37	1.55	0	7	12	17	2	.....	Chamber of Commerce
Gorin	Scotland	700	38	....	......	..	..	..	..	..	2.25	−2.36	1.14	0	10	11	10	10	sw.	J. W. Pulliam
Hannibal	Marion	534	33	66.4	+2.8	95	29	38	15	37	2.44	−2.56	1.10	0	7	14	8	9	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	37	67.2	+2.3	93	29	36	15	40	4.88	+0.33	2.50	0	11	18	8	5	s.	Miss Emma Swift
Kirksville	Adair	969	36	66.5	+4.0	92	26†	41	15	38	1.97	−3.24	0.60	0	6	19	2	10	s.	Prof. J. S. Stokes
Louisiana	Pike	469	31	66.6	+2.8	94	29	32	15	45	2.45	−2.11	1.15	0	9	24	4	3	w.	J. T. Farrell
Macon	Macon	875	26	66.6	+2.7	98	28	41	15	42	1.96	−2.61	0.61	0	9	18	6	7	se.	W. C. Brown
Mexico	Audrain	800	36	67.1	+2.8	94	29	38	15	38	3.22	−1.54	1.00	0	11	14	3	14	sw.	Mrs. Abbie Snoddy
St. Catharine(near)	Linn	800	14	66.4	+3.9	93	29	39	15	39	2.67	−2.03	0.88	0	10	13	16	2	sw.	L. D. Baker
St. Charles	St. Charles	456	37	67.4	+4.4	96	29	38	15	36	2.24	−1.94	0.91	T.	3	13	12	6	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	68.5	+1.5	94	29	44	4	27	1.58	−2.66	0.71	0	6	13	14	4	sw.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	67.8	+1.7	94	29	43	4†	28	1.46	−2.78	0.88	0	6	23	7	1	se.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	..	..	..	1.53	−2.45	0.56	0	8	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	27	67.9	+3.8	95	26†	36	20	42	2.24	−2.71	0.60	0	7	14	14	3	e.	Frank Hall
Unionville	Putnam	1,062	32	66.6	+4.2	95	26	40	3†	35	2.85	−2.11	1.10	0	8	13	11	7	n.	Geo. W. Davis
Warrenton	Warren	816	43	67.8	+2.8	94	29	38	15	35	2.09	−2.70	1.06	0	6	15	12	4	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	65.8	+2.0	93	29	42	15	33	3.14	−1.11	1.06	0	10	9	13	9	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	66.9	+2.8	98	28	32	15	48	2.60	−2.05	2.55	0	8	15	10	6	sw.	
Southeast Lowlands.																				
Benton	Scott	340	0	....	......	..	..	..	..	..	1.30	......	0.76	0	6	..	..	..	......	E. R. Tirmenstein
Campbell	Dunklin	314	0	68.4	......	98	29	39	5	43	4.06	......	2.87	0	6	17	11	3	sw.	Jeff. King
Caruthersville	Pemiscot	265	29	71.4	+1.9	98	29	45	15	39	4.42	+0.16	1.71	0	7	19	6	6	nw.	John T. Markey
Doniphan	Ripley	344	21	67.2	+0.3	96	29	29	15	46	3.31	−0.85	2.10	0	4	14	12	5	sw.	W.W. Martin
Jackson	Cape Girardeau	428	34	68.4	+2.6	97	29	35	5	48	1.20	−3.16	0.60	0	5	11	5	15	s.	John G. Putz
Marble Hill	Bollinger	470	30	67.1	+1.4	95	25	34	15	51	1.38	−2.85	0.70	0	3	14	13	4	w.	R.A. DeWitt
Morehouse	New Madrid	289	24	....	......	..	..	..	..	..	2.27	−1.89	1.39	0	7	16	14	1	sw.	John A. Spence
Parma	New Madrid	281	4	....	......	..	..	..	..	..	2.53	......	1.12	0	6	..	..	..	.....	H. W. Kendall
Patton	Bollinger	605	16	....	......	..	..	..	..	..	1.04	−3.74	0.54	0	5	..	..	..	.....	S. P. Presnell
Poplar Bluff	Butler	329	21	68.0	0.0	98	29	37	4	47	3.71	−1.32	1.48	0	6	19	10	2	s.	J. H. Wolpers
Sikeston	Scott	318	20	69.2	+0.6	97	27†	41	4	45	1.40	−2.76	0.50	0	6	16	9	6	s.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	359	50	68.8	+0.4	92	25	43	4	32	2.26	−1.57	0.76	0	9	9	11	11	s.	U. S. Weather Bureau
Section means and	extremes	....	..	68.6	+1.0	98	29	34	15	51	2.42	−2.00	2.87	0	6	15	10	6	s.	
Ozark Plateau.																				
Arcadia	Iron	926	44	64.4	−0.2	92	29	36	4†	47	1.36	−3.42	0.55	0	5	24	2	5	w.	Arcadia College
Birchtree	Shannon	1,000	30	66.1	+0.9	91	29	40	15	33	4.13	−0.18	1.91	0	11	21	6	4	se.	V. H. Kirkendall
Bolivar	Polk	1,071	31	66.8	+1.9	99	29	36	14	37	2.99	−2.43	1.08	0	5	18	6	7	s.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	95	29	..	..	..	7.82	+1.86	5.80	0	6	26	3	2	sw	H. E. Dean
Eldon	Miller	934	29	66.7	+2.2	98	27†	39	14	44	3.09	−1.77	1.00	0	8	8	16	7	sw.	E. H. Shepherd
Farmington	St. Francois	918	14	66.0	+2.2	97	29	37	4	45	2.74	−2.76	1.35	0	5	15	12	4	sw.	Robert Forsyth
Gano ††	Dent	1,250	21	66.4	+1.1	95	29	38	15	36	3.44	−1.10	1.07	0	8	19	5	7	s.	A. C. Leach
Goodland	Iron	1,000	31	64.8	+0.3	93	28†	32	15	49	5.44	+0.82	2.90	0	5	19	8	4	s.	F. M. Adams
Greenville	Wayne	381	3	64.0	......	91	29†	35	5†	44	4.11	......	3.00	0	4	19	5	7	s.	Wm. P. Owens
Hailey	Barry	1,350	0	....	......	..	..	..	..	..	5.20	......	4.00	0	9	19	11	1	w.	A. W. Madison
Hollister	Taney	735	38	63.8	−3.5	97	29	35	6	49	3.90	−0.33	1.60	0	4	19	2	10	sw.	Mrs. W. P. Chapman
Koshkonong	Oregon	958	24	68.2	+1.4	94	29	44	5	37	1.90	−2.94	0.50	0	9	17	5	9	s.	R. M. Hitt
Lebanon	Laclede	1,265	37	65.0	−0.6	94	29	34	15	41	2.08	−3.53	0.85	0	5	19	5	7	s.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	64.2	−0.4	91	28	40	15	28	2.78	−2.30	1.98	0	6	18	4	9	sw.	C. S. Crow
Mountain Grove	Wright	1,463	24	66.2	+2.3	93	5†	33	15	48	4.13	−0.72	1.20	0	7	15	14	2	sw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	66.8	+0.6	94	29	33	15	42	5.08	−0.99	3.73	0	8	20	8	3	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	67.4	+2.9	93	29	37	15	36	2.07	−2.94	0.71	0	8	20	8	3	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	66.4	+1.5	92	29	41	14†	33	4.70	−0.89	1.03	0	10	20	4	7	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,612	19	65.1	+1.0	91	29	35	15	40	2.47	−3.23	0.97	0	4	20	7	4	s.	Ira H. Hailey
Springfield	Greene	1,350	37	66.2	+1.7	96	29	42	14	27	4.50	−1.05	2.42	0	10	19	9	3	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	65.8	+0.9	99	29	32	15	49	3.70	−1.70	5.80	0	7	19	7	5	s.	
Southwest Plain.																				
Amoret	Bates	831	18	65.4	+2.1	95	30	37	21†	46	3.26	−1.56	0.92	0	7	23	7	1	sw.	Andrew Rood
Appleton City	St. Clair	853	31	68.0	+2.9	95	29	42	14	38	2.18	−3.36	1.44	0	7	12	18	1	sw.	W. G. Bigelow
Clinton	Henry	765	32	68.9	+3.7	98	29	41	15	36	3.65	−1.79	1.95	0	8	16	12	3	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	67.0	+3.0	95	29	40	14	37	2.86	−1.95	0.76	0	12	4	0	27	se.	John H. Patterson
Lamar	Barton	980	38	68.2	+2.3	97	29	41	15	38	1.39	−4.07	0.87	0	4	19	9	3	sw.	Jesse A. Mann
Lamonte ††	Pettis	867	24	68.2	+3.5	96	29	40	15	38	3.69	−1.26	1.58	0	9	20	10	1	s.	J. E. Wheeler
Marshall	Saline	779	36	69.0	+4.9	100	29	35	15	46	2.60	−2.26	0.95	0	8	13	7	11	sw.	Dr. W. H. Black
Nevada	Vernon	862	32	67.2	+2.6	91	29	41	14	35	1.22	−4.50	0.76	0	4	20	7	4	sw.	George A. Kaupp
Warrensburg	Johnson	878	38	68.6	+3.3	94	29	41	15	35	3.49	−1.17	1.23	0	10	14	11	6	sw.	L. B. Johnston
Warsaw	Benton	687	25	68.0	+2.2	96	29	35	15	42	3.46	−1.77	1.50	0	7	20	5	6	w.	Everett Martin
Section means and	extremes	.....	..	67.8	+3.0	100	29	35	15	46	2.67	−2.49	1.95	0	7	16	8	7	sw	
Northwest Plateau.																				
Avalon	Livingston	730	35	....	......	..	..	..	..	..	....	.	....	..	..	..	..	..	......	F. G. Ashbaugh
Bethany	Harrison	916	33	66.8	+4.2	97	26	36	15	45	2.87	−2.11	0.62	0	10	12	13	6	se.	M. H. Moulton
Chillicothe	Livingston	779	16	67.6	+0.5	95	26†	35	15	44	0.50	−4.21	0.15	0	7	19	10	2	sw.	Wm. J. Olenhouse
Conception	Nodaway	980	36	68.2	+6.2	97	26	38	14	36	2.17	−2.60	0.82	0	3	8	19	4	s.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	68.0°	.....	93	28	32	15	44	0.43	−5.02	0.12	0	5	26	3	2	s.	Fred L. Stiff
Grant City	Worth	1,134	21	66.5	+4.4	92	26	40	14	34	5.33	+0.60	2.60	0	7	15	10	6	sw.	W. P. Spillman
Kansas City	Jackson	963	36	68.6	+3.8	91	28	41	14	30	1.53	−3.58	0.51	0	14	13	12	6	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	67.8	+4.7	97	26	38	15	46	0.10	−4.81	0.16	0	4	18	4	9	se.	Linn Terry
King City	Gentry	1,095	0	....	......	..	..	..	..		1.58	......	0.62	0	5	..	..	..	...	D. B. Oliver
Lexington	Lafayette	688	40	66.0	+1.6	93	29	42	15	28	1.29	−3.77	0.38	0	9	15	11	5	s.	Edwin G. Loomis
Liberty	Clay	859	35	69.2	+4.4	94	27†	43	14	34	1.64	−3.34	0.66	0	9	19	6	6	w.	Doran H. Coffman
Maryville	Nodaway	1,169	35	67.2	+6.1	95	26	38	14	36	2.90	−2.85	1.59	0	8	14	4	13	n.	J. R. Brink
Oregon	Holt	1,018	69	69.4	+4.2	95	26	39	14	34	2.19	−2.67	1.18	0	9	16	11	4	sw.	Mina Wright
St. Joseph	Buchanan	967	17	68.3	+4.6	94	26	41	14	34	0.99	−3.57	0.33	0	10	16	12	3	sw.	U. S. Weather Bureau
Tarkio	Atchison	916	22	63.2	−0.1	94	26	38	14	38	2.93	−1.73	0.78	0	8	14	8	9	sw.	Albert Volker
Trenton	Grundy	822	29	67.6	+3.8	91	26	40	15	32	3.17	−2.17	1.25	0	9	17	11	3	s.	W. H. Estes
Section means and	extremes	.....	..	67.5	+3.9	97	26	32	15	34	1.96	−2.99	2.60	0	8	16	10	5	s.	
State means and	extremes	.....	..	67.0	+2.4	100	29	32	15	51	2.73	−1.97	5.80	0	7	16	9	6	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for May, 1926.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri		.02	.05				T.	.30	.46	.06	.07	T.		.05				.34	.07		.30									.90	.10	2,72
Brunswick‖	Grand			.12				.12	.03	.15	.06	.06			.04			.11	.40	.06		.20									.52	.34	2,21
Clifton Hill	Chariton		.42						.32	.04	.12	.02							2.55			.14		T.							.27	.28	4.16
Columbia***	Missouri		.10					.22	.27		.13	.01		.02	T.			.02	.90	T.		.07								.35	.51	.27	2.87
Downing	Mississippi		.06							.47				.23	.01				.43									1.57				.36	3.13
Fayette‖‖	Missouri		.30					.42	.40						.30			.04	.32			.16									.52	.13	2.59
Fulton‖	do			.05					.60									.04	.68	.28											1.55	.20	3.40
Gorin	Mississippi		.09							.12				.14	.02			.04	.33			.07						1.14		.07		.23	2.25
Hannibal***	do		.20					T.		T.	.06			T.	T.				.30			.23		T.			T.			1.08	.24	.33	2.44
Hermann‖	Missouri			.04					.04	.06		.18	T.		T.	.02			.60	.48	.02	T.	T.								1.44	.02	2.90
Jefferson City‖	do							.02	.10	.60		.10	.03					.12	2.50	.10		.17									.96	.18	4.88
Kirksville	Mississippi		.02						.24					.37					.60									.60				.14	1.97
Louisiana	do		.04							T.	.06	.02		.15	.10				1.15			T.								.03	.80	.10	2.45
Macon‖	Chariton			.30					.20	.05	.10								.61	.18			.06								.25	.21	1.96
Mexico‖	Mississippi				.10						.62	.02	.05			.05				.88	.12	.25	.06								1.00	.07	3.22
Milan‖	Grand								.36		.24								.15	.70			.20					2.20				.30	4.15
Pacific‖	Meramec			.09						T.	.01					.02		T.	.40	.52											.50	1.32	2.86
St. Catharine (near)	Grand		.01					.10	.31	.14	.07			T.	T.				.48			.24		T.				.08			.36	.88	2.67
St. Charles	Missouri		T.	T.					T.						T.			T.	.91			T.									.43	.90	2.24
St Louis (1)***	Mississippi		.01						T.	T	T.			T.	T.			.01	.56			T.								.01	.28	.71	1.58
St. Louis (2)	do		.03							T.	T.			T.	T.			.02	.51			T.								.02	.34	.54	1.46
Shelbina‖‖	do			.12						.34	.13								.17			.11	.06								.56	.04	1.53
Steffenville	do		.25							.35	.10								.37			.12						.60		T.	.30	.15	2.24
Union‖	Meramec			.03												.06			.95	.27			.12								.27	1.03	2.73
Unionville	Chariton								.15	.10				T.	.10			.10	.70			.10						1.10				.50	2.85
Valley Park‖‖	Meramec			.09						.28									.35	.24											.35	1.18	2.49
Warrenton	Mississippi			.19							.02				T.			T.	.61		.06	T.									1.06	15	2.09
Keokuk, Ia.***	do		.22						T.	T.				.14					.24			.03		.03			.68	.14		1.06	.16	.44	3.14
Southeast Lowlands																																	
Benton	Mississippi		.01						.01	.01									.17	.34												.76	1.30
Campbell	St. Francis			.02							.45	T.	.08						2.87	.36												.28	4.06
Cape Girardeau‖	Mississippi			.02						.06			.06						.07	.40												.15	0.76
Caruthersville	do		.04							.47		.24							1.07	.42											1.71	.47	4.42
Doniphan	Black		.06							T.				.30					T.	.85												2.10	3.31
Jackson	Mississippi												.07					.04	.08	.60												.41	1.20
Marble Hill	Mississippi																	.08		.60												.70	1.38
Morehouse	do		.42									.15	.01						.03	.18											.09	1.39	2.27
New Madrid‖	do			.16								.01	.03						.23	.25										.02		1.20	1.90
Parma	St. Francis		.57									.22						.18	.33												1.12	.11	2.53
Patton	Mississippi																	.05	.06	.54											.24	.15	1.04
Poplar Bluff	Black		T.							.30	T.	.04						.16	.88												.85	1.48	3.71
Sikeston	Mississippi			.02									.50						.03	.27									.08			.50	1.40
Cairo, Ill.***	do		.07	.03					.53	.23		T.	.02	T.				.18	.36	.16										T.	T.	.68	2.26
Ozark Plateau.																																	
Arcadia‖	St. Francis			T.					T.	T.	.10			T.					.40	.31											.15	.40	1,36
Birchtree	Black			.20				.13	.06	.32		1.91	.03	.06					.32	.20											.60	.30	4.13
Bolivar	Osage								.75	.13		.11																			.92	1.08	2.99
Dean	Neosho							.11		T.		1.35	.15	T.					.05												.36	5.80	7.82
Eldon‖‖	Missouri		.11					T.	.54			1.00		.18					.14											.18	.40	.54	3.09
Farmington	St. Francis									T.				T	T.			.53	.15	.40								T.			1.35	.31	2.74
Fredericktown‖‖	do																		T				T.			.06			.24		.32		0.62
Galena‖‖	White		.15					.27	.30			.96							.79			20									3.35	.15	6.17
Gano	Meramec		.25	.06				T.		.75								1.07	.30				.15								.26	.60	3.44
Goodland	Black									.89								2.90	.38												.57	.70	5.44
Greenville	St. Francis		.03																3.00	.68												.40	4.11
Hailey	White		.04					.04	.35	.14		.10	.40	.03																	.10	4.00	5.20
Hollister	do							.60				1.60																			.20	1.50	3.90
Jerome‖	Gasconade		T.							.45		.06						.09	.13	.77			.77									.55	2.82
Koshkonong	Black			.22				.24	.15	T.		.20	T.	.03				T.	.08	.43											.05	.50	1.90
Lebanon‖	Osage			.08					.25	.85		T.								.40												.50	2.08
Lockwood	do		.09						.24	.35	.06																				.06	1.98	2.78
Mountain Grove‖	White			1.10				.17	.35	.85			T.	T.				.09		T.			.37									1.20	4.13
Neosho	Neosho		.22	.21			T.	.03		T.		.06	.14	T.				T.	.26				.43									3.73	5.08
Rolla	Meramec		.09					.10	.47								.17	.08	.71			18										.27	2.07
Seligman	Neosho		1.00	.07				.35				.33	.40	.02					.23			.37									.51	1.42	4.70
Seymour (near)	White						T.	.40	T.	.97				T.	T.			T.	T.			T.									.20	.90	2.47
Springfield***	do	T.	.01				T	.23	1.25	.28		.15	.01	.06					.02			T.									.51	1.98	4.50
Steelville‖	Meramec			.15						.72									1.24	.60												.46	3.17
Tuscumbia‖	Osage			.05				T.	.09	1.04		T.	.76		.03			T.	.10	.07			T.								.40	.34	2.88
Willow Sprgs.‖ (near)	White			.28				.25	.21	.41	.05		.17		.07				.03	1.01			.11									1.05	3.64
Southwest Plain.																																	
Amoret	Osage		.21					.27	.92		.34							.15													.50	.87	3.26
Appleton City	do		.05					T.	* *	1.44		.04		T.				T	T.											.03	.48	.14	2.18
Clinton	do							.02	.57	.64		.13						.02	.10												1.95	.22	3.65
Harrisonville‖	do		.02	.07				.01	.15	.37	.22	.19	07						.30	.02											.68	.76	2.86
Joplin*	Neosho			.01			T.		.15			.74	T.	.06																	.42	2.03	3.41
Lamar‖	do								.05	.27			.20							T.												.87	1.39
Lamonte	Missouri		.15					.03	1.58	.35				.10				.02	.19												.38	.89	3.69
Marshall	do		.05					T.	.25	.10	T.	T.	T.	.15				T.	.35			.25		T.				T.			.50	.95	2.60
Nevada	Osage		T			T.	T.	T.	T.	.08		T.		T.					.12												.76	.26	1.22
Osceola‖‖	do			.68				.07	.09	.70					.07					.12												.49	2.22
Warrensburg	Missouri		.27					T.	.48	.52	.03	T.		.03	.02			T.	.10			T.								.42	1.23	.39	3.49
Warsaw	Osage		.24						1.50	.50		.30						.17	.30													.45	3.46
Waverly‖	Missouri			.80				T.	.15	T.	T.				.17			.07	.77			.17									.28	.75	3.16
Northwest Plateau.																																	
Albany‖‖	Grand																																....
Avalon	do																																....
Bethany	do		T.					.06	T.	.36	.30			T.				.02	.50			.30		.01				.50			.62	.20	2.87
Chillicothe‖‖	do			T.				.04	.08	T.	08	T.						T.	.15	T.		.10						.02			T.	.03	0.50
Conception	Missouri							T.	T.	.77	.58			T.				T.	.82			T.		T.						T.		T.	2.17
Edgerton	do								.02	T.		.06						.12	.12												.11	T.	0.43
Gallatin‖	Grand																																....
Grant City	do									1.09	.55								.27			.15						.52			2.60	.15	5.33
Kansas City***	Missouri	T.	01				T.	.10	.01	.02	.01	.24		.05				.04	.23		.02	.01								.28	.33	.18	1.53
Kidder‖	Grand			.06					T.		.07	.11							.16			T.					T.	T.				T.	0.40
King City	Missouri								.08	.25	.54								.62												.09		1.58
Lexington‖	do			.22				.02		.08					.11			.06	.17			.04									.38	.21	1.29
Liberty‖	do		T.					T.	.10	.03		.14						.14	.27			.09								.12	.09	.66	1.64
Maryville	do		.10						T	.11	1.59	.01						.04	.84			T.						.01				.20	2.90
Oregon	do	T.						.10	.03	1.18	.22	.30						.08	.20					.05				.03					2.19
St. Joseph***	do		.02					.02	.15	.17	.04	.11					.01	.10	.33		T.			.04								T.	0.99
Tarkio	do		.13					.05	.05	.78	65							.13	.40												.74		2.93
Trenton	Grand		T.				T.	.11	.03		.40			T.					.03	.47		.29						1.25		T.	.52	.07	3.17

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch.

*** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for May, 1926.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	85	82	71	81	84	83	80	86	78	75	68	73	74	65	80	86	88	84	74	81	81	76	87	93	92	94	90	93	96	91	83	82.4
	Minimum	54	60	60	46	49	54	53	58	51	61	57	49	47	46	46	39	49	63	60	47	46	61	42	57	63	66	65	65	63	71	66	55.3
Columbia	Maximum	84	75	67	78	84	82	78	82	78	67	65	69	72	59	73	81	84	73	71	78	82	69	83	90	90	90	85	91	94	86	80	78.7
	Minimum	62	56	47	47	54	51	62	58	57	57	49	45	48	41	36	50	63	54	47	46	59	50	53	66	66	66	65	64	66	64	62	55.2
Fayette§§	Maximum	84	75	69	79	83	83	78	81	76	70	60	72	75	62	72	82	86	76	74	80	82	72	84	91	90	68	81	93	96	88	81	78.8
	Minimum	50	55	42	44	46	45	62	55	54	55	50	42	46	45	33	38	38	58	43	42	45	46	45	49	60	61	62	62	64	64	64	50.5
Hannibal	Maximum	84	75	62	71	81	84	76	81	80	67	66	70	71	54	75	83	86	74	72	77	78	67	82	92	91	92	74	86	95	85	80	77.8
	Minimum	60	56	48	45	55	55	64	62	59	56	47	43	50	40	38	51	63	53	47	44	58	46	48	65	68	69	60	62	63	65	63	54.9
Jefferson City §§	Maximum	83	79	70	79	84	82	80	84	81	73	63	69	70	58	74	83	87	78	73	78	82	70	82	90	89	90	90	91	93	88	82	79.8
	Minimum	59	60	48	45	51	51	57	56	57	56	49	45	49	44	36	43	54	58	48	50	55	52	50	60	65	64	66	65	69	64	64	54.5
Kirksville	Maximum	82	79	66	77	82	81	77	82	79	68	65	71	70	62	76	83	86	81	72	78	76	69	83	91	90	92	90	90	92	89	82	79.4
	Minimum	58	60	43	44	53	49	60	58	52	55	45	45	53	43	41	52	60	54	43	42	60	42	48	67	65	68	52	58	65	63	64	53.6
Louisiana	Maximum	85	82	65	72	80	83	76	82	82	82	70	75	72	56	77	84	86	83	75	77	82	75	82	90	90	91	88	86	94	93	88	80.7
	Minimum	56	60	49	40	48	46	60	56	55	55	49	37	43	38	32	47	58	60	50	40	60	48	42	58	63	62	62	63	65	64	65	52.6
Macon§§	Maximum	85	75	68	78	83	83	75	84	78	71	70	75	75	65	73	85	86	73	73	79	79	75	84	93	93	95	80	98	95	90	81	80.5
	Minimum	57	60	41	44	53	50	51	57	53	55	47	45	50	43	41	47	58	58	43	45	53	42	42	54	64	66	60	60	61	63	65	52.6
Mexico§§	Maximum	86	78	67	78	80	87	80	84	83	70	65	70	76	60	75	85	87	77	73	79	84	70	82	92	90	92	83	92	94	91	85	80.5
	Minimum	56	59	44	44	48	50	58	59	55	55	48	45	50	43	38	47	60	59	47	45	55	47	51	55	64	66	64	62	63	64	65	53.7
St. Catharine	Maximum	81	76	67	75	79	80	76	82	73	69	65	70	68	62	73	82	82	78	71	76	77	68	82	90	90	92	84	88	93	90	79	78.0
	Minimum	56	59	44	47	52	56	63	59	56	56	48	46	56	43	39	48	64	58	44	45	62	45	51	51	65	67	60	63	70	60	66	54.7
St. Louis(1)	Maximum	84	80	66	67	78	82	74	79	82	71	66	70	73	60	71	82	81	82	71	77	83	67	77	90	90	90	84	86	91	87	80	78.2
	Minimum	68	59	50	44	53	61	64	61	60	60	53	49	53	47	45	57	62	59	55	54	63	54	50	63	71	72	65	66	70	66	66	58.7
Unionville	Maximum	83	78	70	80	80	81	78	80	76	68	68	73	72	65	77	85	86	83	70	77	79	72	85	93	91	95	87	86	92	90	80	80.0
	Minimum	56	60	40	45	52	50	60	56	52	54	44	42	54	40	44	51	55	52	42	43	61	40	58	62	61	66	56	58	66	60	64	53.1
Warrenton	Maximum	85	82	73	70	82	83	80	82	83	79	67	70	73	70	73	82	87	84	71	78	83	79	81	92	90	90	87	90	91	92	84	81.2
	Minimum	58	60	46	41	47	54	62	58	55	55	49	42	49	43	38	51	59	59	50	48	59	49	47	61	65	67	65	61	65	63	65	54.5
Southeast Lowlands.																																	
Campbell	Maximum	85	75	77	72	82	83	77	83	82	80	71	74	75	70	74	81	87	83	79	77	81	80	79	91	92	92	92	91	98	92	86	82.0
	Minimum	51	54	55	44	39	49	57	52	55	59	56	52	52	49	42	45	52	63	56	50	54	57	46	51	56	61	65	69	65	71	66	54.7
Caruthersville	Maximum	88	80	76	73	84	84	79	83	82	83	77	72	75	73	71	75	88	86	80	77	83	80	80	93	96	95	94	96	98	94	88	83.3
	Minimum	58	62	57	47	51	59	62	61	60	63	57	56	56	55	45	48	49	61	60	59	58	66	52	56	60	66	71	71	72	71	69	59.4
Doniphan	Maximum	86	76	77	72	81	81	74	84	85	82	69	75	74	67	75	83	87	87	83	79	84	81	79	91	92	91	92	95	96	89	83	82.3
	Minimum	53	54	53	45	38	45	59	59	56	53	56	50	50	46	29	39	48	63	58	47	55	37	38	50	53	57	62	61	63	69	67	52.0
Jackson	Maximum	87	81	76	72	80	86	79	83	85	85	81	73	76	72	72	91	83	86	81	79	82	92	77	92	94	94	93	92	97	90	87	83.8
	Minimum	52	52	53	38	35	73	56	55	53	53	55	50	50	49	41	43	49	54	54	47	51	53	40	49	53	57	62	65	60	68	66	52.9
Poplar Bluff	Maximum	86	75	82	74	83	88	76	85	87	85	71	79	77	70	79	85	89	86	78	81	88	86	82	95	95	94	95	97	98	89	86	84.5
	Minimum	50	52	42	37	45	55	52	55	60	60	53	48	48	46	39	38	45	60	54	50	50	53	43	48	51	51	60	63	62	65	66	51.6
Sikeston	Maximum	86	80	75	70	83	85	78	83	88	85	77	74	76	70	72	84	88	86	79	80	83	80	79	96	96	95	97	92	97	88	83	83.4
	Minimum	53	56	54	41	43	50	57	57	57	57	54	53	52	52	43	47	54	63	57	51	56	59	46	51	58	62	62	67	65	65	64	55.0
Cairo, Ill.	Maximum	84	76	72	66	80	82	78	79	82	80	66	71	73	68	69	81	81	83	69	76	80	74	74	90	92	91	92	87	90	82	83	79.1
	Minimum	60	62	52	43	48	58	61	58	59	60	58	54	59	50	45	50	58	63	57	54	60	56	49	59	66	67	69	70	67	71	66	58.5
Ozark Plateau.																																	
Arcadia§§.	Maximum	84	78	73	71	81	80	71	82	82	80	65	69	71	56	71	83	77	80	72	76	79	74	78	90	90	89	89	90	92	81	79	78.5
	Minimum	54	52	51	36	36	41	53	56	56	53	55	42	38	47	40	36	51	56	52	46	52	55	40	49	54	56	60	61	59	63	63	50.4
Birchtree	Maximum	82	77	74	74	77	77	73	81	82	80	71	66	72	64	70	78	84	82	71	75	79	74	77	87	88	87	89	89	91	85	77	78.5
	Minimum	57	49	53	44	44	56	55	56	55	52	53	47	44	47	40	46	52	61	52	49	57	58	46	56	60	59	63	64	65	63	63	53.7
Eldon §§	Maximum	77	70	78	82	87	84	86	79	74	57	74	70	60	79	81	78	79	75	81	83	82	85	91	90	91	90	98	98	89	81	81	81.0
	Minimum	57	45	45	49	49	50	50	56	56	49	43	45	43	39	46	52	62	46	46	56	52	47	47	60	60	62	64	65	65	62	55	52.4
Farmington	Maximum	87	82	70	71	84	82	70	81	84	83	68	68	68	69	71	86	72	76	72	80	82	72	84	93	92	93	90	91	97	82	84	80.1
	Minimum	57	55	45	37	41	47	48	54	56	56	53	46	39	47	39	41	55	54	52	46	54	53	40	53	57	63	64	61	72	63	63	52.0
Hollister	Maximum	82	80	80	78	76	80	72	84	82	84	79	70	62	60	59	61	60	80	79	82	84	80	80	84	93	92	95	95	97	95	85	79.7
	Minimum	48	46	50	48	44	35	56	50	49	50	48	50	39	38	38	40	50	36	60	42	50	48	46	45	44	48	50	54	60	64	60	47.9
Koshkonong	Maximum	83	79	74	79	81	78	73	80	83	78	74	68	70	64	73	80	84	82	78	78	82	78	80	92	91	89	89	92	94	87	83	80.5
	Minimum	59	57	54	45	44	53	51	55	55	57	55	51	50	48	46	56	57	63	51	52	56	57	48	58	62	62	68	61	68	66	64	55.9
Lebanon§§	Maximum	82	77	72	78	81	79	72	83	78	75	58	66	69	55	71	79	84	79	74	79	80	76	84	91	89	90	90	93	94	90	80	79.0
	Minimum	55	55	43	43	47	49	54	53	53	52	52	44	44	40	34	35	48	62	45	45	45	47	47	56	59	60	61	62	62	64	61	50.9
Mountain Grove	Maximum	80	76	75	75	93	74	69	78	79	76	66	69	74	67	74	80	83	80	75	79	80	77	78	87	85	88	89	89	93	85	75	79.0
	Minimum	58	57	48	46	45	54	54	51	54	53	55	46	44	43	33	47	54	60	46	46	56	52	49	59	61	63	64	64	67	62	61	53.3
Neosho	Maximum	81	77	75	82	80	80	78	81	79	82	76	68	70	71	75	82	84	81	76	81	82	82	88	89	88	87	89	92	94	92	81	81.4
	Minimum	54	53	53	43	42	43	59	54	59	48	53	48	41	43	33	40	62	62	46	43	58	47	48	60	59	61	56	58	63	63	62	52.1
Rolla	Maximum	85	81	75	78	82	80	75	85	81	78	71	67	72	63	73	82	85	83	73	80	81	76	83	91	90	91	90	92	93	90	90	81.2
	Minimum	59	59	47	44	49	51	58	51	55	53	52	44	45	41	37	46	57	60	41	49	60	51	48	60	62	63	64	63	68	65	62	53.7
Springfield	Maximum	78	73	71	76	77	75	67	78	76	73	60	64	66	55	70	77	82	77	72	77	80	74	81	88	85	85	85	88	90	85	76	76.2
	Minimum	59	58	52	52	52	57	56	54	57	54	50	50	49	42	44	50	61	53	48	52	59	55	54	63	66	65	66	68	70	64	61	56.2
Southwest Plain.																																	
Amoret	Maximum	81	75	72	80	81	76	80	75	74	64	67	70	62	73	81	85	77	88	75	72	72	83	78	89	90	90	91	90	92	95	91	79.6
	Minimum	52	53	43	46	50	44	55	56	52	47	42	53	40	41	42	60	42	52	47	63	37	37	52	47	60	63	62	63	60	65	63	51.3
Appleton City	Maximum	80	75	72	80	82	80	76	82	82	74	66	68	72	64	76	81	85	78	76	80	83	75	88	90	89	91	89	93	95	87	84	80.4
	Minimum	56	55	46	49	53	53	60	57	53	54	50	46	55	42	44	49	62	60	48	49	62	54	50	63	65	64	64	65	68	65	65	55.7
Clinton	Maximum	84	80	76	83	84	83	74	83	78	78	63	70	75	68	77	83	88	81	79	83	85	80	90	93	92	94	94	95	98	89	81	82.7
	Minimum	57	55	47	50	52	50	60	57	48	48	47	44	54	44	41	50	62	61	49	48	64	52	50	62	66	65	61	63	70	65	64	55.1
Harrisonville§§	Maximum	81	76	71	81	80	79	75	80	75	71	60	69	71	67	77	82	87	75	76	81	82	76	88	91	91	91	90	92	95	86	84	80.0
	Minimum	55	54	46	48	51	52	55	56	56	53	49	44	50	40	42	48	56	60	47	50	52	49	51	59	66	65	63	65	68	65	61	54.1
Lamar§§	Maximum	81	76	76	82	81	74	76	83	79	78	59	67	71	62	74	82	85	81	76	82	84	79	89	92	89	91	91	93	97	95	83	80.9
	Minimum	57	54	50	49	51	51	59	57	59	54	57	49	49	43	41	48	61	65	48	46	54	51	51	64	65	61	63	64	68	69	64	55.6
Lamonte	Maximum	85	79	75	83	85	85	80	85	78	71	61	61	74	67	78	84	87	76	76	82	85	77	87	93	92	93	93	94	96	91	83	81.8
	Minimum	56	56	41	46	52	52	59	57	56	56	50	50	44	44	40	47	60	53	44	46	63	48	50	65	65	64	63	65	69	65	62	54.5
Marshall	Maximum	86	80	74	84	86	85	80	88	80	72	67	74	78	66	80	89	90	82	75	85	86	76	91	96	95	98	91	97	100	95	95	84.5
	Minimum	54	63	47	41	50	49	59	54	54	55	50	45	48	43	35	43	60	57	44	45	59	48	47	61	61	63	62	61	67	65	63	53.4
Nevada	Maximum	78	76	72	78	78	74	76	79	77	75	60	68	72	64	73	80	84	78	76	79	84	76	87	89	88	89	89	91	94	89	83	79.2
	Minimum	55	55	47	51	51	54	59	56	56	54	50	45	53	41	42	52	60	53	46	44	61	52	55	62	65	67	65	65	69	66	63	55.3
Warrensburg	Maximum	82	77	71	80	81	82	78	82	74	70	67	70	72	66	76	81	85	82	75	80	82	78	87	90	90	91	90	92	94	86	81	80.4
	Minimum	59	57	47	51	56	56	60	59	57	56	51	45	53	45	41	52	62	61	47	50	63	49	55	66	68	66	65	66	68	65	65	56.8
Warsaw	Maximum	83	77	73	80	83	82	77	83	78	78	66	70	71	70	67	82	85	81	75	81	82	78	87	92	91	93	92	94	96	92	85	81.4
	Minimum	49	54	44	48	53	47	62	56	59	55	52	41	48	45	35	54	60	65	46	45	64	49	45	63	65	65	61	61	70	66	65	54.6
Northwest Plateau.																																	
Chillicothe §§	Maximum	83	75	73	82	83	82	79	83	76	67	67	73	72	67	79	86	90	68	75	83	80	74	89	94	93	95	84	93	95	93	86	81.3
	Minimum	57	59	44	46	55	50	51	58	57	57	50	45	53	45	35	53	57	58	44	41	59	41	50	56	66	67	61	62	68	63	65	51.0
Grant City	Maximum	81	76	72	81	81	81	78	76	76	64	64	71	65	62	75	83	85	72	70	78	76	72	87	91	89	92	81	89	88	91	78	78.2
	Minimum	56	59	42	48	73	58	59	58	50	54	56	47	47	40	42	51	61	53	46	46	61	41	54	61	66	65	60	61	68	57	60	54.8
Kansas City	Maximum	80	75	72	79	80	78	74	75	72	68	62	68	70	66	75	83	86	74	73	80	80	75	88	90	89	90	89	91	90	90	83	78.9
	Minimum	62	56	49	55	57	58	60	60	59	55	49	50	48	44	46	58	64	53	50	55	63	50	58	69	72	70	67	70	68	67	65	58.3
Kidder§§	Maximum	83	82	75	82	84	83	85	83	82	67	69	75	70	77	83	88	91	66	78	84	82	86	92	95	91	97	93	94	96	95	88	83.8
	Minimum	55	52	41	43	48	49	54	56	59	55	47	43	47	41	38	46	49	61	44	44	51	41	46	49	65	67	61	59	66	65	60	51.7
Lexington§§	Maximum	80	76	71	75	75	75	72	67	76	66	60	65	57	57	62	76	75	75	75	75	72	68	84	87	89	90	81	89	93	90	83	75.5
	Minimum	58	56	46	49	53	53	59	59	59	58	49	45	55	45	42	55	61	60	48	47	60	48	58	68	67	68	65	61	71	66	64	56.6
Maryville	Maximum	85	74	74	84	84	80	76	80	72	63	65	72	64	69	79	86	87	75	71	79	77	73	87	91	89	95	83	90	91	92	79	79.5
	Minimum	55	58	42	50	54	55	59	58	55	56	47	44	51	38	43	51	58	53	47	49	61	40	55	68	68	69	63	61	72	60	61	54.9
Oregon	Maximum	85	80	77	84	84	83	79	80	77	64	65	73	64	69	78	87	88	84	73	82	81	79	90	93	89	95	90	93	89	94	85	81.7
	Minimum	60	58	46	54	57	57	61	59	57	55	49	45	51	39	44	54	58	56	50	51	63	41	57	69	70	71	64	65	74	65	66	57.1
St. Joseph	Maximum	83	75	75	83	82	79	77	81	69	66	63	69	67	67	77	86	86	68	72	82	80	75	89	92	90	94	87	92	89	92	84	79.7
	Minimum	62	55	46	55	58	56	62	60	59	58	49	45	45	41	43	56	60	53	51	50	59	46	58	71	72	69	65	65	73	63	60	56.9
Trenton	Maximum	82	74	71	78	78	79	74	78	78	68	65	69	67	64	74	81	82	75	72	76	74	77	82	88	89	91	83	86	89	87	84	77.9
	Minimum	61	61	45	48	61	64	60	62	58	57	50	46	55	45	40	55	58	50	56	58	60	45	58	61	66	69	65	60	69	65	66	57.3

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 6-22-26—875.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXX. COLUMBIA, MO., JUNE, 1926. NO. 6.

GENERAL SUMMARY.

June, 192~~5~~6 in Missouri, was mainly cool for a summer month. It was, as a rule, in marked contrast with the preceding month of May, and averaged less than 4 degrees warmer, whereas during a normal season June is nearly 9 degrees warmer than May. In the main the temperature deficiency was quite uniform, with some rather low values for the season on the 5th, 18th, 21st, 26th, and 28th. There were, however, some few hot days, notably on the 10th, 12th, and 30th.

Rain was more scanty than usual, but where it fell in ample to generous amounts it was pretty well distributed. Some more or less general rains on the 21st proved to be very timely and satisfying, except in the southeast quarter where persistent drought was unbroken. Some quite heavy local amounts fell during a 24-hour period on the 2d, and 14th; and a relatively few stations, at widely separated points, received monthly totals considerably larger than the normal.

Thunderstorms with attending squalls and hail, were quite frequent, but probably not more so than during other Junes. The most outstanding of these storms are noted further along at the end of the text. All rivers were well within banks.

As a rule the weather was favorable for farming interests, as well as general business, and highway work. Corn was variable in height but made good growth. Wheat improved wonderfully, and harvesting was nearing completion at the end of the month. All, or nearly all, other crops did well.

TEMPERATURE.

The monthly mean temperature for the State as a whole, 69 stations reporting, was 70.9 degrees, or 2.6 degrees lower than the 36-year normal. Although a few stations in the northwest had plus departures the averages for all divisions were quite uniform though for individual stations the departures were more marked in the Ozarks and southern border. In the Ozarks temperatures on the hottest days scarcely reached 90 degrees, while in all other sections they were around the 100 degree value on from one to five days. The extremes were 37 degrees to 101 degrees, being within the extremes of other years.

PRECIPITATION.

The precipitation for the State as a whole, 101 stations reporting, was 3.62 inches, or about 1.05 inches less than the 56 years' normal. The month's moisture was slightly more than the average in most northern sections and deficient elsewhere, though quite well distributed. Drought effects were noticeable in most of the State as the month grew older, but a good rain the night of the 21st relieved the dry conditions, except in the southeast quarter. The showery periods occurred at quite regular intervals, allowing much sunshiny weather in between.

MISCELLANEOUS PHENOMENA.

Hail.—Small, resulting in little or no damage, on one or more dates, at Brunswick, Caruthersville, Clifton Hill, Dean, Eldon, Gorin, Grant City, Lexington, Liberty, Jackson, Marshall, St Catharine, St. Louis, Kansas City, Hannibal, Seymour, and Warrensburg. Quite large hail fell at Gorin on the 24th, resulting in damage to fruit.

Halos, lunar.—None.

Halos, solar.—2d, 10th, 15th, 18th, 21st, 22d, 25th, 26th, and 28th.

Thunderstorms.—1st, 2d, 3d, 4th, 8th, 9th, 10th, 12th, 13th, 14th, 15th, 16th, 17th, 20th, 21st, 22d, 23d, 24th, 25th, 29th, and 30th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
								Max. velocity.		
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Miles per hour.	Direction.	Date.
Columbia	29.93	80	62	318	71	5,061	7.0	33	w.	16
Hannibal	29.94	77	..	...	..	6,117	8.5	37	nw.	12
Kansas City	29.93	73	54	350	78	7,298	10.1	38	nw.	13
St. Joseph	29.91	74	52	338	75	5,517	7.7	50	nw.	13
St. Louis	29.94	68	48	290	65	8,178	11.4	37	nw.	12
Springfield	29 98	79	61	315	72	6,258	8.7	36	nw.	8
Cairo, Ill	29.94	73	50	...	..	5,713	7.9	28	w.	14
Keokuk, Iowa	29.94	72	54	360	80	5,462	7.6	34	nw.	7

COMPARATIVE DATA FOR JUNE.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	72.6	−0.5	103	37	6.20	+1.26	......	0	7	....	....	....
1889	70.7	−2.4	100	38	4.66	−0.28	......	0	6	....	....	....
1890	77.2	+4.1	105	50	2.59	−2.35	......	0	6	....	....	....
1891	73.3	+0.2	103	46	6.94	+2.00	......	0	13	....	....	....
1892	74.5	+1.4	100	38	3.18	−1.76	4.25	0	7	15	9	6
1893	72.6	−0.5	98	42	4.61	−0.31	3.60	0	9	12	12	6
1894	74.5	+1.4	105	30	3.92	−1.02	3.48	0	7	16	11	3
1895	73.2	+0.1	100	42	5.77	+0.83	3.85	0	10	12	11	7
1896	72.5	−0.6	101	45	8.32	+3.38	5.60	0	9	12	11	7
1897	73 6	+0.5	102	38	6.18	+1.24	6.40	0	12	9	14	7
1898	75.3	+2.2	100	42	5.88	+0.94	6.05	0	9	13	12	5
1899	74.3	+1.2	101	42	3.87	−1.07	4.48	0	9	15	10	5
1900	73.3	+0.2	103	44	4.79	−0.15	5.06	0	10	12	12	6
1901	77.9	+4 8	110	40	2.13	−2.81	2.99	0	6	18	10	2
1902	70.9	−2.2	100	37	6.57	+1.63	6.08	0	12	11	10	9
1903	67.3	−4.2	95	36	3.25	−1.69	4.90	0	9	15	9	6
1904	70.5	−2.6	93	45	6.42	+1.58	5.41	0	11	12	12	6
1905	75.2	+2.1	103	42	3.09	−1.85	4.80	0	7	15	10	5
1906	72.7	−0 4	101	40	4.95	+0.01	4.07	0	10	15	9	6
1907	71.2	−1.9	97	40	5.84	+0.90	3.90	0	11	14	10	6
1908	72.3	−0.8	98	43	6.30	+1.36	5.30	0	11	13	10	7
1909	73.9	+0.8	98	49	5.21	+0.27	4.12	0	11	11	13	6
1910	70.4	−2.7	99	38	3.92	−1.02	3.70	0	8	16	7	7
1911	78.9	+5.8	112	43	1.78	−3.16	2.07	0	6	18	8	4
1912	69.5	−3.6	100	42	4 78	−0.16	5.60	0	9	14	8	8
1913	75.4	+2 6	107	33	2.57	−2.22	3.05	0	6	18	8	4
1914	79.3	+6.2	106	43	2.37	−2.29	3.50	0	5	18	7	5
1915	70.8	−2.5	98	38	6.51	+1.87	4.86	0	12	11	10	9
1916	70.0	−3.2	100	42	6.99	+1.17	6.75	0	10	14	9	7
1917	71.0	−2 3	103	35	3.78	−0.59	4.19	0	8	19	7	4
1918	77.2	+3.9	110	48	3.15	−1.36	4.28	0	7	17	8	5
1919	75.0	+1.9	104	44	5.59	+1.11	4.21	0	11	14	10	6
1920	72.7	−0.5	101	41	2.35	−2.16	3.74	0	6	18	7	5
1921	76.6	+3.4	105	44	5.71	+1.15	4.14	0	12	12	10	8
1922	76.5	+3.1	108	43	1.66	−2.89	2.30	0	5	19	8	3
1923	73.5	+0.2	103	45	5.48	+1.02	4.42	0	11	14	9	7
1924	72.5	−1.0	101	38	7.39	+2.72	4.39	0	14	12	12	6
1925	76.5	+3.0	103	46	6.10	+1.43	8.14	0	9	15	10	5
1926	70.9	−2.6	101	37	3.62	−1.05	2.94	0	8	15	9	6

Climatological Data for June, 1926.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	71.9	−1.3	99	12	46	24	37	4.40	−0.79	1.33	0	11	15	7	8	nw.	O. K. Benecke
Clifton Hill	Randolph	731	26	69.2	−3.8	96	12†	48	4	31	4.27	−0.07	0.84	0	10	16	7	7	......	Dr. A. J. Bradsher
Columbia	Boone	748	35	70.0	−2.8	95	12	48	27	31	2.91	−1.47	0.90	0	13	9	15	6	sw.	U. S. Weather Bureau
Downing	Schuyler	878	4	68.0	......	93	29	43	5	37	6.28	+1.90	2.26	0	11	17	8	5	n.	E. E. St. Clair
Fayette	Howard	661	45	68.0	−5.3	97	29	45	5	47	3.61	−0.93	1.03	0	7	..	..	..	.....	J. D. Settle
Fulton	Callaway	818	37	71.3	−2.3	97	12	46	27	39	3.01	−1.19	1.05	0	9	17	9	4	.....	Chamber of Commerce
Gorin	Scotland	700	38	....	......	..	..	..	..	..	8.05	+4.14	2.25	0	11	8	12	10	sw.	J. W. Pulliam
Hannibal	Marion	584	33	69.3	−3.2	94	29	51	27	33	4.93	+1.41	1.58	0	10	11	12	7	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	37	70.6	−3.4	95	30	50	5	33	3.15	−0.87	0.95	0	10	20	6	4	n.	Miss Emma Swift
Kirksville	Adair	969	36	68.4	−3.8	93	11	44	4	30	6.69	+2.42	1.78	0	9	18	1	11	sw.	Prof. J. S. Stokes
Louisiana	Pike	469	31	71.6	−0.5	100	9	44	27	44	5.96	+2.01	2.00	0	9	24	6	0	w.	J. T. Farrell
Macon	Macon	875	26	69.0	−4.0	100	12	47	4	38	6.71	+2.30	2.94	0	11	14	11	5	se.	W. C. Brown
Mexico	Audrain	809	36	70 0	−3.7	96	12†	47	27	39	2.96	−1.82	0.90	0	10	19	3	8	w.	Mrs. Abbie Snoddy
St. Catharine(near)	Linn	800	14	69.6	−2.9	96	12	45	4	28	5.30	+0.52	1.31	0	12	10	16	4	sw.	L. D. Baker
St. Charles	St. Charles	456	37	71.0	−3.2	95	11†	45	3	36	1.92	−2.04	0.59	0	8	12	11	7	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	72.6	−2.4	93	29	54	4	27	1.72	−2.75	0.58	0	11	9	14	7	sw.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	72.0	−2.9	94	30	53	3	26	1.58	−2.18	0.50	0	9	20	9	1	w.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	..	..	..	8.28	+3.57	2.88	0	9	..	..	..	...	J. C. Jewett
Steffenville	Lewis	650	27	71.2	−2.0	96	11†	45	10	43	7.68	+3.58	1.50	0	8	19	6	5	w.	Frank Hall
Unionville	Putnam	1,062	32	68.0	−3.8	95	12	42	26	40	3.80	−0.88	1.60	0	10	18	5	7	nw.	Geo. W. Davis
Warrenton	Warren	816	43	70.8	−2.8	95	30	49	27	31	3.18	−0.78	0.87	0	10	12	15	3	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	68.6	−3.9	94	11	50	26	29	7.57	+3.22	2.93	0	9	9	14	7	w.	U. S. Weather Bureau
Section means and	extremes	.....	..	70.1	−3.1	100	10†	42	26	47	4.73	+0.42	2.94	0	10	15	9	6	sw.	
Southeast Lowlands.																				
Benton	Scott	340	0	....	......	..	..	..	..		2 14	......	1.30	0	5	..	..	..	.....	E. R. Tirmenstein
Campbell	Dunklin	314	0	74.8	......	99	30	49	28	44	2 46	......	1.70	0	6	10	17	3	sw.	Jeff. King
Caruthersville	Pemiscot	265	29	76.6	−1.2	98	12	55	5	34	1.30	−2.68	0.50	0	6	16	6	8	nw.	John T. Markey
Doniphan	Ripley	344	21	73.4	−1.4	99	30	47	5†	45	1.29	−3.09	0.50	0	5	8	16	6	sw.	W.W. Martin
Jackson	Cape Girardeau	428	34	72.5	−1.6	99	30	42	28	46	2.43	−1.86	0.70	0	6	9	5	16	s.	John G. Putz
Marble Hill	Bollinger	470	30	72.0	−1.9	100	11	42	28	48	2.05	−2.12	0.90	0	6	11	15	4	nw.	R.A. DeWitt
Morehouse	New Madrid	289	24	....	......	..	..	..	..	..	3.22	−0 66	1.30	0	6	18	10	2	sw.	John A. Spence
Parma	New Madrid	281	4	....	......	..	..	..	..	..	1.61	......	0.47	0	5	..	..	..		H. W. Kendall
Patton	Bollinger	605	16	....	......	..	..	..	..	..	1.91	−1.76	0.91	0	6	..	..	..	.....	S. P. Presnell
Poplar Bluff	Butler	329	21	73.9	−1.5	100	30	46	28†	50	1.02	−4.00	0.69	0	3	21	8	1	s.	J. H. Wolpers
Sikeston	Scott	318	20	75.1	+0.6	99	7	50	5	43	1.77	−2.11	0.98	0	4	16	4	10	ne.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	359	50	74.1	−2.2	94	12	55	5	28	0.60	−3.71	0.31	0	5	9	7	14	n.	U. S. Weather Bureau
Section means and	extremes	....	..	74.0	−1.3	100	11†	42	28	50	1.82	−2.44	1.70	0	5	13	10	7	s.	
Ozark Plateau.																				
Arcadia	Iron	926	44	67.8	−4.2	92	29†	41	28	44	2.22	−2.36	0.87	0	5	26	1	3	nw.	Arcadia College
Birchtree	Shannon	1,000	30	70 8	−1.9	96	30	48	5	37	1.36	−3.17	0.89	0	4	20	7	3	se.	V. H. Kirkendall
Bolivar	Polk	1,071	31	70.5	−2.3	90	7†	48	5	30	4.44	−0.58	1.35	0	7	13	9	8	sw.	Southwest Baptist College
Dean ††	McDonald	1,000	26	....	.... .	98	30	..	..	..	7.78	+2.51	2.32	0	11	21	4	5	w.	H. E. Dean
Eldon	Miller	934	29	71.2	−2.0	96	12†	47	26	39	4.12	−0.19	1.04	0	12	11	13	6	sw.	E. H. Shepherd
Farmington	St. Francois	918	14	70.2	−2.4	98	30	42	28	50	3.03	−1.60	1.04	0	7	9	18	3	nw.	Robert Forsyth
Gano ††	Dent	1,250	21	70.1	−2.7	98	30	45	28	45	2.18	−2.12	0.55	0	11	18	9	3	s.	A. C. Leach
Goodland	Iron	1,000	31	68.6	−3.5	96	30	41	28	53	1.91	−2.19	1 20	0	3	18	7	5	s.	F. M Adams
Greenville	Wayne	381	3	70.7	.....	95	29	40	27	49	1.36	......	0.44	0	4	20	6	4	w.	Wm. P. Owens
Hailey	Barry	1,350	0	....	......	..	..	..	..	..	3.95	......	1.07	0	10	19	9	2	w.	A. W. Madison
Hollister	Taney	735	38	69.8	−5.9	94	7†	40	10	46	3.10	−0.91	0.90	0	5	14	5	11	se.	Mrs. W. P. Chapman
Koshkonong	Oregon	958	24	73.0	−1.3	95	30	50	5	34	1.77	−2.71	0.70	0	5	18	8	4	n.	R. M. Hitt
Lebanon	Laclede	1,265	37	67.8	−5.3	94	30	37	21	41	5.20	+0.27	1.05	0	11	18	8	4	e.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	69.7	−4.3	86	12†	55	1†	25	4.84	+0.04	1.37	0	9	23	4	3	sw.	C. S. Crow
Mountain Grove	Wright	1,463	24	70.6	−1 0	95	30	43	5	35	2.47	−2.09	0.39	0	12	16	10	4	sw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	71.9	−2.0	91	12	44	5	31	6.69	+1.26	2.34	0	9	22	5	3	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	71.4	−1.4	96	30	49	5	37	2.43	−1.70	0.80	0	8	18	8	4	w.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	70.0	−2.5	89	7†	50	7	39	4.79	+1.26	1.70	0	8	11	12	7	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,642	19	68.8	−3.2	89	12†	41	5	35	3.71	−0.92	1.14	0	9	16	11	3	nw.	Ira H. Hailey
Springfield	Greene	1,350	37	69.8	−2.7	88	7	50	5	24	3.97	−1.22	1.05	0	12	16	11	3	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	70.1	−2.9	98	30	37	21	53	3.57	−0.91	2.34	0	8	17	8	5	sw.	
Southwest Plain.																				
Amoret	Bates	831	18	70.6	−2.9	94	29†	46	5	40	2.33	−1.53	0.70	0	8	23	5	2	n.	Andrew Rood
Appleton City	St. Clair	853	31	71.8	−3.0	94	29†	51	5	33	2.91	−2.08	1.20	0	10	11	16	3	sw.	W. G. Bigelow
Clinton	Henry	765	32	74.0	+0.6	98	29	50	24	37	2.42	−2.31	1.00	0	8	15	12	3	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	70.2	−3.2	98	29	50	4†	41	2.23	−2.23	0.71	0	8	..	..	..	s.	John H. Patterson
Lamar	Barton	980	38	71.2	−3.2	92	12†	49	5	32	7.09	+2.13	1.60	0	11	15	10	5	sw	Jesse A. Mann
Lamonte ††	Pettis	867	24	71.6	−2.7	99	30	48	5	37	3.79	−0.70	1.45	0	12	13	14	3	sw.	J. E. Wheeler
Marshall	Saline	779	36	72.2	−1 7	101	12†	48	5	40	3.29	−1.03	0.86	0	11	11	9	10	sw.	Dr. W. H. Black
Nevada	Vernon	862	32	71.4	−2.2	92	29†	50	5	30	2.98	−2.13	0.79	0	11	21	6	3	n.	George A. Kaupp
Warrensburg	Johnson	878	38	72 8	−1.4	96	30	51	5	32	3.20	−1.56	1.10	0	11	18	9	3	sw.	L B. Johnston
Warsaw	Benton	687	25	72 6	−1.1	98	30	45	5	43	2.40	−2.77	1.03	0	10	13	13	4	w.	Everett Martin
Section means and	extremes	.....	..	71.9	−2.0	101	12†	45	5	43	3.21	−1.50	1.60	0	10	16	10	4	sw.	
Northwest Plateau.																				
Avalon	Livingston	730	35	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	.....	F. G. Ashbaugh
Bethany	Harrison	916	33	69.5	−2.9	101	12	45	26†	34	4 89	+0.41	2.00	0	13	12	9	9	nw.	M. H. Moulton
Chillicothe	Livingston	779	16	70.3	−3.9	99	12†	47	26	38	7.80	+2.73	2.70	0	12	16	10	4	sw.	Wm. J. Olenhouse
Conception	Nodaway	980	36	71.0	−0.6	101	12	49	26	33	5.49	+0.94	1.62	0	6	8	17	5	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	71.6[b]	......	97	12	45	5	46	3.71	−1.40	1.28	0	10	22	5	3	s.	Fred L. Stiff
Grant City	Worth	1,134	21	68.6	−2.7	96	12	46	27	31	4.18	−0.37	1.35	0	8	14	12	4	se.	W. P. Spillman
Kansas City	Jackson	963	36	72.2	−1.4	98	29	53	19	28	1.55	−3.11	0.39	0	11	14	13	3	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	69.2	−3.2	100	12	43	18	37	8.42	+4.06	2.90	0	12	17	6	7	sw.	Linn Terry
King City	Gentry	1,095	0	....	......	..	..	..	..	..	6.27	......	2.27	0	8	..	..	..	.....	D. B. Oliver
Lexington	Lafayette	688	40	71.6	−1.2	98	12	50	4	34	2.78	−1.99	1.21	0	10	12	13	5	s.	Edwin G Loomis
Liberty	Clay	859	35	72.6[h]	−1.4	98	13†	49	5†	43	4.48	−0.22	1.06	0	9	20	6	4	sw.	Doran H. Coffman
Maryville	Nodaway	1,169	35	69.8	+0.2	100	12	46	26	36	4.99	+0.36	2.51	0	5	18	3	9	s.	J. R. Brink
Oregon	Holt	1,048	69	72.4	+0.1	100	29	50	19†	34	4.39	−0.34	2.00	0	10	14	13	3	sw.	Mina Wright
St. Joseph	Buchanan	967	17	72.0	+2.3	98	29	51	19	31	5.44	+0.82	2.48	0	11	16	8	6	sw.	U. S. Weather Bureau
Tarkio	Atchison	916	22	66.6	−6.1	98	12	47	19†	29	5.61	+0.80	1.90	0	8	13	9	8	nw.	Albert Volker
Trenton	Grundy	822	29	69.9	−2.7	96	12	50	4	29	4.23	−0.07	1.58	0	10	13	14	2	s.	W. H. Estes
Section means and	extremes	.....	..	70.6	−1 8	101	12	43	18	43	4.95	+0.19	2.90	0	9	15	10	5	s.	
State means and	extremes	.....	..	70.9	−2.6	101	12†	37	21	53	3.62	−1.05	2.94	0	8	15	9	6	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b], represents two days, etc.

†Also on other dates. ‖Received too late to be included in means and summaries. ††Post-office addresses of these stations are as follows: of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for June, 1926.

Stations.	Drainage-basins.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Northeast Plain.																																	
Boonville‖	Missouri	.30		.19	.03					.17					.20	T.	.10	1.00		.30		1.20				20	.05						3.74
Brunswick‖	Grand	.30		.10	.12										1.33			1.12		.12	.93			.07	.04	.07	.20						4.40
Clifton Hill	Chariton			.60				T.	T.				.80	.13	.79		.18	.63	.05			.84	.10			.15							4.27
Columbia***	Missouri			.47					.01	.19	.03		T.	.05	.13		.52	.04	.06			.90	.04		.46	.01							2.91
Downing	Mississippi			.61	.04						.48		.36	2.26	.85		.25	.80	.05				.23		.35	T.							6.28
Fayette‖	Missouri										.26			.18	.24		1.03	.65				.78			.47								3.61
Fulton‖	do			.20	.17					.05	.15				.28			.80		.16		1.05				.15							3.01
Gorin	Mississippi			.05							.10		1.13	1.15	2.25		.48	1.00	.08					.32	.99	.50							8.05
Hannibal***	do			.25			T.				.01		1.58	.89	.11		1.52		.08			.25			.12	.12							4.93
Hermann‖	Missouri	.09		.10	.13					.02	T.	.14		.07	.30			1.18		.20		.76				.13	.12						3.24
Jefferson City‖	do	.10		.28	.03					.10					.27			.95		.18		.45				.64	.15						3.15
Kirksville	Mississippi			.12									1.60	1.08	1.78		1.06	.60	.08			.27		.10									6.69
Louisiana	do			.31								.42	2.00	T.	1.00			1.30		.26		.32			.03	.32							5.96
Macon ‖	Chariton	.25		.14	.25									.25	2.94		.71	1.41		.06		.40		.03		.27							6.71
Mexico ‖	Mississippi			.20	.14	.02								.66	.16		.08	.90		.11		.67			T.	.02							2.96
Milan‖	Grand								T.				.10	.15	1.40		.85	.60		.20				.25		.73							4.28
Pacific‖	Meramec	.15		.10	.23					.07		T.		.05	.18			.30		.08		.35			.15	.10							1.76
St. Catharine (near)	Grand			.30	.06				.04				.70	1.20	1.31		1.10		.08			.33	.02	.02	.14								5.30
St. Charles	Missouri			.15							T.		.20		.14		.04	.59		.06		.16				T.	.58						1.92
St Louis (1)***	Mississippi			.20			T.		T.	T.	T.		.32	T.	.10		.23	.02	.04	.01		.19		.03	.13	.45							1.72
St. Louis (2)	do			.22						T.	T.		.20		.16		.22	.03	.04			.15		T.	.06	.50							1.58
Shelbina ‖	do	.19		.23	.25				T.					2.88	2.00	T.	.93	1.45		.06		.29		T.		T.							8.28
Steffenville	do			.30									.87	1.45	1.45		1.50	1.25				.27			.59								7.68
Union‖	Meramec	.09		.13	.30				.03	.04		.04		.10	.52			.37		.06		.24				.22							2.14
Unionville ‖	Chariton			.45							.10			.85	.30		.30	1.30	T.	.10		.20	.10	.10									3.80
Valley Park‖	Meramec	.17			.29					T.				.14	.12			.28		.09		.18				.02	.61						1.90
Warrenton	Mississippi			.36						T.	.30		.10	.18	.33		.43	.87		.11		.20				.30							3.18
Keokuk, Ia.***	do			T.							.08		2.33	2.89	.26		1.37		.08			.23			.03	.30							7.57
Southeast Lowlands																																	
Benton	Mississippi	.22		.29					.01	.32																					1.30		2.14
Campbell‖	St. Francis	1.70	.05		.40					.10	T.	.10								.11													2.46
Cape Girardeau‖	Mississippi	.66			.40				.01	1.48	.12			.16						.11													2.91
Caruthersville‖	do							.07	.19	.17				T.	.09					.28							.50				T.		1.30
Doniphan	Black	.10	.05	.40					.50		.24															T.							1.29
Jackson	Mississippi	.27		.69					.04	.63									.10												.70		2.43
Marble Hill	Mississippi	.30		.90						.40				.25						.10											.10		2.05
Morehouse	do	.98		.43					.07	.42					.02											T.					1.30		3.22
New Madrid‖	do	.83			27				.12							.21				.40													1.83
Parma	St. Francis			.47					.41	.13										.25											.35		1.61
Patton	Mississippi			.65	T.				.15	.91								.06		.10		.04				T.							1.91
Poplar Bluff ‖	Black	.05		.69				T.			.28																						1.02
Sikeston	Mississippi	.98			23				.02	.54						T.																	1.77
Cairo, Ill.***	do			.16	T.			T.	.01	.30			T.	T.	T					T.		.02			T.						.11		0.60
Ozark Plateau.																																	
Arcadia ‖	St. Francis	.18		.44	.35				T.	.87										T.		.38				T.							2 22
Birchtree	Black	.07	.19	.89					.21																								1.26
Bolivar	Osage			.82					.36									.63	.26			1.35		.31		.71							4.44
Dean	Neosho	.05	1.18	.64											2.32	.71		1.09	.20			1.05	.01		.03		.50						7.78
Eldon ‖	Missouri	.06	.23					.02	.65	.02				1.04			.82		.32		.71				.12	.11	.02						4.12
Farmington	St. Francis			.49					.03	1.00					T.					.32		.02			T.	.13					1.04		3.03
Fredericktown‖	do		.20							.04								.10										T.					0.34
Galena‖	White		.60	.22											.60	.36	.16		.62			.92					.51						3.99
Gano	Meramec	.04	.08	.36	T.				.25	.30					.13			.05	.05	.50		.18									.24		2.18
Goodland	Black			.46					.25	1.20																							1.91
Greenville	St. Francis		.30	.44																.32						T.					.30		1.36
Hailey	White		.40	.20				.02							1.07	.40	.22	.02				1.00			.10	.52							3.95
Hollister	do		.80											.30		.90			.70			.40											3.10
Jerome ‖	Gasconade	.17	.06	.43	T.				.25	1.03					.33			.75				.22											3.24
Koshkonong	Black	.24	.12	.70					.56							T.				.15						T.							1.77
Lebanon ‖	Osage	1.05	.30	.25						.15		.80			1.00	T.		.75		.25		.05	.25				.35						5.20
Lockwood	do	.20	1.37	.25					.42						T.			1.17	.45			.75		.15	.08								4.84
Mountain Grove‖	White	.30	.30	.15	.36	T.			.38	.02					.11		T.	.28		.39		T.	.11			.03	.04						2.47
Neosho	Neosho	.07	2.34	.45	T.										1.76	.30		.38	.42	T.		.81			T.		.16						6.69
Rolla ‖	Meramec	.28	.30	.09					.80					.22			.60		.08		.06												2.43
Seligman	Neosho		.50	1.08											.68	.47		.24	.03			1.70			T.	T.	.09						4.79
Seymour (near)	White		.25	.03					.80					.34		.07	T.		.27	.20		.61			T.	1.14							3.71
Springfield***	do		.42	.10				T	.99					.33	.20	T.	.03	1.02	.07	T.		.52	.04	.01	T.	.24	T.						3.97
Steelville‖	Meramec	.12		.30	.07					.87					.20			.05		.22		.76	.05										2.64
Tuscumbia ‖	Osage	.70	05	.25	.04				.07	.12					.25	.01		.75		.22		.26											2.72
Willow Sprgs. ‖ (near)	White	.31	.41	.04	.34				.38								.02	.11		.13			.04				.04						1.82
Southwest Plain.																																	
Amoret	Osage			.45					.30	.50				.11	.14		.70		.12	.01													2.33
Appleton City	do		.02	1.20					.30	.60				T.	.01		.01	.28	.10			.34	.05			T.							2.91
Clinton	do		.03	.24					.10	.47				1.00			.30		.10			.18											2 42
Harrisonville‖	do		.01						.29	.26				.30	.11			.45		.10		.71											2.23
Joplin*	Neosho		1.89	.51										.26	T.	.18	.07	.25	.29	T		2.10	T.		T.	.73	.15						6.43
Lamar‖	do	.05	1.60	95					.25	.65					.72	T.	.05	1.25		.75		.62		.20		T.							7.09
Lamonte	Missouri		.15	.25	.01					.18					.14			.78	.25	.01		1.45	.05		.10	.42							3.79
Marshall	do	T.		30		T.		T.	T	.10				.03	.86		.05	.39	.04	.12		.83		T.	.30	.27							3.29
Nevada	Osage	.20	.79	.26					.22	.12				.31	.15			.38	.26			.27		.02									2.98
Osceola‖	do		.10	.56					.27	.46					.18			.41		.35		.39				.25							2.97
Warrensburg	Missouri	T.	T.	75					T.	.12				.03	.35		.02	.55	.06	.02		1.10	.06		T.	.14							3.20
Warsaw ‖	Osage			.19	.03				.10	.11				.03	1.03				.35	.09		.15	T.		T.	.32							2.40
Waverly ‖	Missouri	.41		T.	.09				T.	T.					1.09	T.	T.	.34		.13		1.00			T.	.22							3.28
Northwest Plateau.																																	
Albany‖	Grand																																....
Avalon	do																																....
Bethany	do			.23	.10						.06		.55	2 00	.55		.30	.30	.05			.50	T.	.10		.05					.10		4.89
Chillicothe‖	do	.04		.73	.11	.01				T.				T.	2.70		1.36	1.21		.13	T.	1.27		.04	.02	.18					T.		7.80
Conception	Missouri			.47					T.				1.62	.77	.25		1.11		T.			1.27	T.		T.								5.49
Edgerton	do			.23	.01			T.	.02	T.				.05	.95		.09		.40			1.28	07		.61								3.71
Gallatin ‖	Grand	.28		.60										T.	.75		2.00	.45				1 20		T.		T.					T.		5 28
Grant City	do	.50									.72	.38		.63	.72		.36					.55	.32										4.18
Kansas City***	Missouri		.10	.06	.08				.14	.20				.35	T.	.05	.34	T.	.04		.13	T.	T.		.06								1.55
Kidder ‖	Grand	.10		.05	.03	.12			T.	T.				.14	2.90		1.44	1.65		.18		1.72		.04		.05					T		8.42
King City	Missouri			.09										1.00	1.03		2.27		.09			1.29		.43	.07								6.27
Lexington ‖	do	.11		.15	.05	.06			.02						.37			.44				.32		.05		1.21							2.78
Liberty ‖	do			.21		.03			T.	T				.12	.80		1.05	.31		.05		1.06		T.	T	.85							4.48
Maryville ‖	do	.38		.89					T.						2.51		.48	T.				.73	T.										4.99
Oregon	do			.27	T				09		T.			.70	.18	T.	.58		.05			2.00	.17		.27						.08		4.39
St. Joseph***	do	.01		.21	.03			T.	T					2.48	T	T.	.16		.21		2.10		.06	.02	.14					.02			5.44
Tarkio	do			.42							1.90			1.54	.12		.07					1.44		.07						.05			5.61
Trenton	Grand			.57	.11				T.				.12	1.58	T.	.43	.24		.10		.49		.09		.50	T.				T			4.23

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch.
*** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for June, 1926.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	83	88	81	73	81	85	86	86	85	92	94	99	93	73	75	84	83	78	75	84	81	83	80	83	85	81	80	89	97	96	..	84.4
	Minimum	51	63	51	50	53	53	68	59	62	66	71	75	71	55	57	53	65	56	55	57	69	55	56	46	59	53	51	55	69	75	..	59.4
Columbia	Maximum	79	84	70	67	76	84	85	80	79	90	92	95	87	76	73	85	79	65	74	83	75	79	78	80	83	72	75	84	93	92	..	80.5
	Minimum	56	64	53	54	50	63	60	59	60	68	71	69	67	64	56	63	63	56	56	58	57	53	55	56	56	56	48	53	66	73	..	59.4
Fayette §§	Maximum	78	78	59	67	79	86	88	84	81	89	92	96	71	78	74	83	82	61	75	83	74	83	81	79	86	75	82	86	97	94	..	80.7
	Minimum	52	50	51	52	45	50	56	54	60	61	64	70	70	64	55	57	61	54	52	53	58	49	52	50	53	52	54	46	50	60	..	55.2
Hannibal	Maximum	81	81	63	71	77	80	82	83	84	87	93	88	85	72	72	75	79	67	73	81	75	80	79	79	82	71	77	85	94	91	..	79.6
	Minimum	56	61	51	54	52	63	57	57	60	61	70	64	66	63	56	59	64	57	58	57	60	56	58	54	58	54	51	52	66	75	..	59.0
Jefferson City §§	Maximum	82	87	60	68	80	84	88	80	80	90	91	94	88	78	75	90	80	68	74	83	74	80	80	83	85	72	78	86	94	95	..	81.6
	Minimum	56	60	55	54	50	57	60	62	59	60	70	74	69	66	60	60	64	60	58	58	64	55	57	56	55	57	52	53	62	69	..	59.7
Kirksville	Maximum	80	82	79	74	78	81	82	80	89	90	93	83	83	78	72	72	73	69	72	80	76	78	77	83	81	76	82	84	91	89	..	80.2
	Minimum	52	57	50	44	49	63	56	54	63	65	67	67	63	61	53	58	61	53	50	55	54	50	55	56	57	47	52	55	68	67	..	56.7
Louisiana	Maximum	83	85	82	75	78	84	86	85	100	97	96	98	96	82	86	85	87	88	88	82	82	84	82	81	85	82	82	85	94	95	..	86.5
	Minimum	54	57	53	55	45	58	58	53	56	55	65	65	62	64	52	60	62	58	58	56	65	52	56	48	58	54	44	45	62	72	..	56.7
Macon §§	Maximum	83	85	58	74	82	80	81	84	87	93	94	100	88	71	75	74	81	65	76	82	73	81	79	81	83	76	80	81	96	94	..	81.2
	Minimum	52	59	50	47	50	52	53	55	59	63	67	70	65	63	55	59	60	52	55	55	62	53	55	55	56	48	51	54	60	69	..	56.8
Mexico §§	Maximum	83	88	59	70	78	82	87	84	84	92	95	96	90	77	74	82	82	66	76	84	75	80	81	81	85	72	79	88	96	96	..	82.1
	Minimum	55	60	52	52	52	59	58	59	59	63	68	73	64	64	55	58	60	54	54	57	63	56	55	54	56	53	47	54	57	70	..	58.0
St. Catharine	Maximum	80	77	74	70	73	79	82	82	83	89	92	96	83	74	70	77	79	71	71	80	76	81	80	81	83	74	77	83	93	90	..	80.0
	Minimum	53	62	49	45	49	62	56	56	59	67	71	74	66	63	55	59	64	54	53	64	62	54	55	56	56	51	67	55	68	71	..	59.2
St. Louis(1)	Maximum	81	86	73	68	77	82	85	82	80	88	93	92	91	80	73	85	84	73	76	82	77	80	81	83	83	72	76	86	93	93	..	81.8
	Minimum	62	66	54	54	58	58	63	68	66	66	75	66	69	61	60	60	65	63	61	62	67	64	64	62	61	58	56	63	66	78	..	63.3
Unionville	Maximum	80	78	72	75	78	81	81	82	90	86	94	95	81	88	72	73	76	74	74	80	78	80	76	84	82	80	80	86	94	92	..	80.7
	Minimum	52	54	50	45	46	61	54	50	50	60	63	68	62	62	50	56	60	48	46	55	60	54	54	55	62	42	52	53	70	62	..	55.2
Warrenton	Maximum	81	86	82	66	77	83	80	85	83	90	93	93	90	83	73	82	82	78	76	83	79	79	79	82	83	74	78	86	92	95	..	82.4
	Minimum	55	63	52	52	51	59	55	61	62	63	70	66	63	65	57	60	64	57	58	58	64	56	57	57	57	54	49	55	64	72	..	59.2
Southeast Lowlands.																																	
Campbell	Maximum	81	80	79	70	76	85	93	90	83	94	95	96	94	90	80	94	95	89	81	88	94	86	87	88	92	86	83	89	95	99	..	87.7
	Minimum	64	59	62	57	51	54	61	62	63	65	68	70	73	75	62	60	73	66	63	61	62	66	56	55	57	61	60	49	51	65	..	61.7
Caruthersville	Maximum	83	85	82	75	77	85	95	80	84	90	97	98	97	90	81	95	95	95	82	86	93	84	85	88	91	87	81	86	94	97	..	87.9
	Minimum	61	63	66	58	55	57	63	67	64	69	72	72	77	75	66	62	71	71	64	66	67	69	62	60	67	62	64	60	60	68	..	65.3
Doniphan	Maximum	83	82	73	70	79	87	94	91	83	92	94	95	93	88	80	95	91	85	78	90	87	85	87	86	91	80	83	90	95	99	..	86.9
	Minimum	58	60	61	56	47	50	57	61	62	61	66	68	71	70	63	61	74	65	64	58	67	63	54	50	52	54	59	47	50	64	..	59.9
Jackson	Maximum	81	93	89	68	76	84	92	87	82	89	95	95	94	94	82	88	92	92	80	87	90	91	87	83	90	82	83	88	94	99	..	87.6
	Minimum	61	57	56	53	45	50	55	62	58	53	70	70	68	72	58	57	68	61	60	51	64	55	51	49	56	56	49	42	49	67	..	57.4
Poplar Bluff	Maximum	86	81	74	75	80	87	96	85	84	94	97	98	95	89	82	93	94	87	79	88	92	88	89	87	92	88	86	92	96	100	..	88.5
	Minimum	60	59	59	55	48	56	57	63	61	67	66	68	70	71	60	58	72	63	62	58	61	60	52	51	57	56	53	46	46	64	..	59.3
Sikeston	Maximum	82	82	77	71	77	86	99	88	83	92	97	97	97	92	85	92	96	87	77	98	96	89	87	87	93	83	82	91	97	98	..	88.6
	Minimum	65	61	57	56	50	53	61	66	59	63	69	71	73	75	61	58	73	65	65	61	65	65	59	58	60	59	56	51	54	58	..	61.6
Cairo, Ill.	Maximum	80	81	71	69	74	83	91	79	79	87	93	94	93	89	74	87	92	84	75	83	90	81	82	85	87	80	78	85	90	93	..	83.6
	Minimum	66	63	58	57	55	58	64	68	60	64	73	74	76	74	62	59	75	69	63	64	69	65	62	59	68	63	61	58	62	69	..	64.6
Ozark Plateau.																																	
Arcadia §§	Maximum	80	84	59	65	72	84	88	77	77	86	90	91	87	80	70	84	85	79	69	82	79	78	80	79	84	75	78	85	92	92	..	80.4
	Minimum	59	54	56	52	43	48	55	56	56	57	64	69	65	71	57	54	60	54	58	53	60	52	49	48	52	55	45	41	48	63	..	55.1
Birchtree	Maximum	78	80	75	66	74	88	89	78	79	88	90	91	87	81	78	85	85	77	72	86	82	81	87	81	87	80	78	86	92	96	..	82.6
	Minimum	58	58	61	53	48	56	59	58	62	64	66	68	68	70	59	59	65	59	59	57	68	54	54	52	55	58	53	51	55	65	..	59.1
Eldon §§	Maximum	82	76	70	78	85	90	83	81	91	90	94	96	83	76	88	85	68	74	83	84	82	84	85	85	74	79	86	96	96	94	..	83.9
	Minimum	59	56	48	48	56	61	62	57	58	66	72	65	65	57	59	65	57	57	55	64	55	56	56	59	57	47	50	57	66	67	..	58.6
Farmington	Maximum	84	87	68	65	72	84	86	85	82	92	95	90	88	84	72	92	84	80	74	84	76	82	86	82	90	72	78	92	97	98	..	83.4
	Minimum	58	55	54	51	47	49	57	59	55	60	66	68	66	70	56	55	62	57	58	56	65	62	52	49	55	54	49	42	55	68	..	57.0
Hollister	Maximum	84	82	85	84	78	80	94	92	94	85	92	90	91	94	76	78	90	80	82	80	80	85	84	86	80	79	86	88	92	93	..	85.5
	Minimum	55	52	52	56	46	48	48	46	50	40	60	56	52	64	58	59	58	62	60	59	58	52	50	52	50	49	50	60	61	62	..	54.2
Koshkonong	Maximum	80	84	74	68	74	82	90	85	80	90	91	92	88	82	79	91	86	82	75	85	83	81	85	92	88	78	80	88	91	95	..	84.0
	Minimum	61	62	64	56	50	54	62	59	64	59	69	76	69	73	62	61	68	62	61	60	67	60	59	59	62	61	55	54	63	68	..	62.0
Lebanon §§	Maximum	79	83	69	66	75	83	88	78	81	89	90	92	89	78	76	89	81	68	73	83	74	78	79	81	86	74	78	85	91	94	..	81 0
	Minimum	53	53	59	51	43	45	59	59	56	58	64	66	66	63	58	57	62	56	55	55	37	53	51	51	53	56	47	47	50	58	..	54.7
Mountain Grove	Maximum	81	85	74	76	76	84	91	82	84	87	89	90	84	82	76	87	85	78	72	80	77	79	87	79	85	77	81	85	91	95	..	82.6
	Minimum	55	57	60	52	43	53	61	56	63	64	64	69	66	66	58	60	63	57	57	57	64	53	52	56	58	55	52	55	61	68	..	58.5
Neosho	Maximum	83	81	80	76	77	84	90	89	89	90	89	91	89	87	83	89	88	82	71	85	83	79	81	80	87	87	81	85	88	89	..	84.4
	Minimum	53	57	62	56	44	57	56	63	65	61	66	72	72	63	64	68	63	58	56	55	65	52	53	55	59	58	52	54	60	61	..	59.4
Rolla	Maximum	80	86	77	69	76	83	88	82	82	90	92	93	93	87	76	89	89	80	76	84	79	80	81	83	84	84	82	89	95	96	..	84.2
	Minimum	56	58	56	52	49	56	58	56	56	63	70	70	68	68	55	60	63	58	57	56	63	55	54	54	56	57	50	52	61	71	..	58.6
Springfield	Maximum	78	76	75	64	73	80	88	80	79	86	86	88	85	77	73	88	80	68	68	81	72	76	77	74	83	71	75	83	87	88	..	78.6
	Minimum	57	59	56	54	50	56	66	56	63	67	71	72	66	64	60	65	64	55	58	60	61	58	59	60	63	61	56	60	64	70	..	61.0
Southwest Plain.																																	
Amoret	Maximum	80	85	77	72	78	86	91	81	81	87	91	93	90	90	86	90	80	76	73	85	84	80	81	80	87	77	80	89	94	94	..	83.9
	Minimum	52	58	58	54	46	60	53	60	58	65	69	72	67	64	48	60	66	58	50	55	63	48	54	56	56	49	48	49	60	67	..	57.4
Appleton City	Maximum	81	84	76	70	78	88	91	78	81	88	89	92	88	81	78	91	84	71	72	85	78	82	83	80	88	74	80	88	94	94	..	82.9
	Minimum	55	59	59	56	51	61	61	59	59	66	69	74	72	66	59	69	66	58	55	56	63	54	56	58	59	60	52	55	64	70	..	60.7
Clinton	Maximum	80	88	84	74	79	85	93	85	83	91	93	96	91	86	88	92	88	78	74	85	82	85	87	85	90	79	84	91	98	96		86.3
	Minimum	70	66	64	51	68	64	59	60	59	55	70	74	72	65	62	65	65	59	55	66	64	54	55	50	60	59	51	54	65	72	..	61.8
Harrisonville §§	Maximum	80	86	62	73	79	86	91	80	76	89	91	93	87	79	73	89	84	61	72	84	75	83	83	82	88	76	82	90	98	96	..	82.3
	Minimum	52	58	56	50	50	55	57	63	58	60	67	72	66	64	58	59	62	56	50	53	63	53	53	57	59	57	53	56	57	67	..	58.0
Lamar §§	Maximum	82	81	76	68	78	83	91	82	84	90	90	92	90	79	80	90	82	65	71	84	73	79	80	72	86	73	79	86	90	92	..	81.6
	Minimum	54	55	60	55	49	54	59	60	62	64	71	74	74	64	62	62	64	61	56	58	64	55	55	59	61	64	57	56	62	69	..	60.7
Lamonte	Maximum	81	91	70	75	81	85	89	85	82	92	93	95	90	79	79	91	83	66	74	85	79	84	82	83	87	79	83	91	98	99	..	84.4
	Minimum	52	58	55	55	48	60	57	61	59	65	69	73	70	62	56	64	64	55	52	56	58	52	54	59	57	55	49	54	65	71	..	58.8
Marshall	Maximum	83	91	83	74	84	87	90	86	85	95	98	101	95	84	78	89	83	79	78	87	80	84	83	80	87	83	81	92	101	100	..	86.6
	Minimum	51	59	53	54	48	61	56	59	60	64	59	72	69	65	58	62	64	55	53	55	63	50	53	53	55	52	49	52	62	71	..	57.9
Nevada	Maximum	80	80	77	68	75	84	88	81	81	87	89	91	87	85	82	90	85	72	70	84	78	79	81	78	88	78	78	86	92	92	..	82.2
	Minimum	54	57	61	55	50	61	59	61	60	67	70	74	69	64	60	69	65	56	56	56	64	54	55	61	62	53	53	56	66	70	..	60.6
Warrensburg	Maximum	79	86	83	71	78	84	87	83	81	88	90	93	91	86	75	90	87	79	73	83	82	80	80	81	83	83	78	89	95	96	..	83.8
	Minimum	63	69	56	56	51	62	59	63	60	67	71	75	71	65	58	65	66	67	53	59	63	54	54	61	59	57	53	57	66	73	..	61.8
Warsaw	Maximum	82	89	89	71	79	87	91	84	83	92	93	97	93	89	77	91	90	72	76	85	85	83	84	83	87	82	80	91	96	98	..	86.0
	Minimum	55	60	60	55	45	51	54	59	60	65	70	76	70	76	59	66	68	57	58	60	54	51	52	54	55	58	46	48	62	70	..	59.1
Northwest Plateau.																																	
Chillicothe §§	Maximum	86	87	63	74	80	85	86	84	87	93	96	99	90	70	76	80	79	64	75	84	74	80	80	82	82	79	81	88	99	94	..	82.6
	Minimum	52	61	52	48	49	59	58	57	58	66	69	74	68	63	56	59	63	53	51	56	62	54	54	56	58	47	48	50	65	73	..	58.0
Grant City	Maximum	83	79	71	74	80	81	80	82	85	86	90	96	80	71	71	79	76	70	73	79	76	79	78	83	80	75	77	87	92	92	..	80.2
	Minimum	52	50	53	52	52	63	58	57	55	65	65	69	64	60	55	60	61	50	49	56	57	54	53	59	52	47	46	58	68	67	..	56.9
Kansas City	Maximum	82	87	67	70	80	85	89	82	77	90	92	95	90	74	73	90	80	64	72	84	72	81	80	80	84	71	79	91	98	97	..	81 9
	Minimum	58	63	55	51	58	64	68	63	61	68	74	76	66	63	59	64	64	54	53	59	61	60	57	64	64	58	58	63	72	78	..	62.6
Kidder §§	Maximum	86	89	70	73	84	88	87	85	88	93	95	100	90	73	71	86	77	60	73	81	73	79	79	80	81	74	77	88	96	95	..	82.4
	Minimum	50	56	49	45	48	55	58	55	56	56	66	73	65	61	54	56	61	43	48	54	59	52	52	57	58	56	56	53	60	70	..	56.1
Lexington §§	Maximum	81	83	62	68	80	85	89	83	79	91	94	98	90	84	74	90	85	74	73	85	79	83	80	81	84	76	77	89	97	96	..	83.0
	Minimum	53	61	55	50	51	63	64	60	60	66	71	75	69	65	59	63	64	55	52	57	64	54	55	60	59	54	51	55	70	74	..	60.3
Maryville	Maximum	84	83	71	76	83	88	83	82	85	90	94	100	85	74	71	87	89	68	72	80	77	81	80	85	82	77	79	92	95	91	..	82.8
	Minimum	50	57	54	51	50	52	55	58	54	66	71	73	66	60	56	60	60	51	47	48	56	51	50	58	58	46	49	57	69	70	..	56.8
Oregon	Maximum	86	91	75	79	86	87	88	84	88	93	95	99	91	67	78	90	80	62	77	85	79	81	82	83	85	77	83	94	100	97	..	84.7
	Minimum	52	60	57	54	55	64	62	58	58	69	75	76	66	63	52	62	62	54	50	59	57	56	54	60	61	50	53	62	71	70	.	60.1
St Joseph	Maximum	85	90	71	73	83	86	85	88	84	92	93	97	90	68	73	90	78	61	73	83	73	80	79	80	83	74	79	92	98	96	..	82.6
	Minimum	55	64	57	53	51	64	65	63	62	70	76	78	62	63	58	62	61	54	51	59	60	59	56	61	63	54	52	61	72	74	..	61.4
Trenton	Maximum	82	80	74	70	79	80	78	80	86	90	91	96	80	74	76	77	74	70	76	81	76	78	76	80	78	78	77	85	90	88	..	80.0
	Minimum	57	60	60	50	57	59	58	60	60	61	71	74	66	58	56	58	56	57	57	62	54	58	57	60	63	55	54	58	67	72	..	59.8

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^{a}, ^{b}, ^{c}, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W B O, St Louis, 7-27-26 875.

SPECIAL STORM NOTES.

During the afternoon of June 7th, a hailstorm occurred west of Plattsburg, Clinton County, Mo. The width of the path was about one mile and the length, several miles. Stones were as large as playing marbles. Damage was confined to growing crops, estimated to be around $5,000. Again during the afternoon of the 13th, a severe thunderstorm prevailed at and in the vicinity of Cameron, northeast part of the county. Severe hail fell at about 4.30 p. m., and later, for brief periods. The path was from southwest to northwest at first and later more from the northwest. The path of damage was about three miles wide and several miles long. The stones were said to be as large as medium size walnuts. Loss to crops estimated to be about $10,000; to small buildings about $8,000.

A thunderstorm, attended by severe squalls, passed over the northeastern part of the State the afternoon of the 12th. Damage was done at and in the vicinity of Hannibal, Marion County, and at New London, Ralls County. At the former place the damage was confined to trees; one house was struck by lightning and damaged about $100. At New London plate glass windows were broken, barns and other outhouses were wrecked; one cow and some pigs were killed. Total damage between $6,000 and $8,000.

At Downing, on the 13th, a windstorm blew down chimneys, small houses, trees and telephone poles; damage about $50. During a violent electric storm on the 17th, lightning killed a a mule, valued at $100 and seven sheep valued at $75.

A severe hailstorm swept over a strip of Laclede County, at and in the vicinity of Lebanon, the afternoon of the 25th, accompanying a severe thunderstorm. The storm traveled from northwest toward southeast. The storm path was twenty miles long and three or four miles wide. Hailstones varied in size from playing marbles to small hen eggs, and covered the ground in places to the depth af several inches, and, in favored spots, remained on the ground for two days. Crops on the farms in the path were almost totally destroyed; considerable territory covered passed over was pasture land. The hail was particularly destructive to chickens. Loss to buildings and tangible property, mostly broken windows, young pigs, and chickens, etc., about $500. Loss to crops probably $2,000.

A severe wind, rain, and hail storm occurred between the hours of 2.40 p. m. and 5 p. m. in Scott County. The storm was local, covering territory about 4 miles long by four miles wide, having Sikeston as the center. The wind was high, the rain excessive, 6 inches falling at Sikeston; hail, the size of small marbles to small walnuts, was limited to territory near Sikeston. The degree of damage was severe, but it can not very well be separated. The estimated loss to crops is put at $400,000; other losses at $100,000; many roofs were ruined and windows broken. There was some minor wind damage as far south as Morehouse, and as far north as Benton.

TORNADO.

At about 4 p. m., June 16th, a tornado swept across the northern part of Harrison County, and northwest part of Mercer County, Mo., "leaving desolation, wrecked homes and hopes in its wake." The tornado apparently formed to the southwest of the hamlet of Eagleville, and a little west of West Big Creek, and traveled northeast passing a little north of Cainesville thence across Mercer County to the Iowa line. The path of destruction was from one-fourth to one and one-half miles wide, crossing about forty farms. Persons in the territory where the storm struck agreed that it appeared almost immediately after two ordinary storm clouds had met high in the western sky, one coming from the north and the other from the south. "From the collison of these clouds," says the Bethany Republican" a nearby newspaper, "there emerged a typical tornado, funnel-shaped and twisting cloud-carrying with it far from the ground limbs and trunks of trees as it bore an irregular course a little north of east." While few homes were blown completely away, "hundreds of homes were damaged, many beyond repair; almost all of them were moved from their foundations, their beams split open and their floors warped, and with great gaps in their sides and roofs."

One person, Ira O'Neal, was seriously injured but none was killed. It is quite certain that many lives were saved because the storm occurred in the daytime, and because the nature of the storm cloud was so plain. Limbs of trees and other debris could be seen high in the air for several minutes before the storm reached a certain point, giving persons ample time to seek some safe place, in many instances storm cellars.

The storm was particularly destructive to live stock and chickens. Hundreds of chickens were killed; one woman having a flock of eight hundred, lost all but twenty-three; nearly all fowls were plucked clean of their feathers. There were many narrow escapes from death, and many freakish things were performed by the storm.

Loss of buildings, household effects, live stock, farm implements, etc., closely estimated at from $75,000 to $100,000, probably nearer the latter figure. It is probable crops were damaged to the amount of $20,000.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXX. Columbia, Mo., July, 1926. No. 7.

GENERAL SUMMARY.

In Missouri, during the month of July, the several weather elements kept pretty well within the limits of the ordinary. One unfavorable feature, a shortage of rainfall, that had been noticeable in the two preceding months, became more widespread and marked in its effects during the current month.

The sunshine was excessive in the south and about normal in the northern half of the State. The month averaged slightly warmer than normal in all divisions. The first week or more was quite hot; afterward, for about ten days, relatively pleasant conditions prevailed, while the last ten days were characterized by variable temperatures but mainly warm.

At about one-fifth of the stations the July rain was more than the normal, but the larger part of the monthly total occurred during one rain. The deficiency was marked in the east-central counties and in nearly all of the southern half of the State, save the extreme southeast. North of the Missouri River moisture conditions were fairly good.

The month's weather was fairly good for all outdoor activities, except hard labor had to be suspended for an hour or two during some of the hot afternoons. It was favorable for wheat threshing and hay making. Corn on the heavier soils and bottom lands did well, but was badly fired on uplands south of the Missouri River. Plowing for fall grain was retarded by hard, dry ground.

TEMPERATURE.

The monthly mean temperature for the State, based upon the records of 67 stations, was 78.0°, or about 0.6° above the 36-year normal. The first eight days and last twenty days were mainly warmer than normal generally, while the remainder of the month was cooler than normal, although no marked departures either way occurred. There were several real hot days, however. About 36 stations reported afternoon temperatures of 100° or higher on one day; 27 stations on two or more days; 21 stations on three or more days, and 12 stations on four or more days. The first four days, the 19th, and the 29th were generally the hottest. The maximum was 108°, at Marble Hill on the 2d.

PRECIPITATION.

The precipitation for the State as a whole, 102 stations reporting, was 3.14 inches, or 0.91 inch less than the 56 years' average. There was a deficiency in all sections, amounting to about 0.50 inch in the northern and nearly 1.50 inches in the southern half of the State, except the southeastern lowlands. Drought effects were quite marked in most of the southwestern plain, Ozark Plateau, and the eastern slope from about Ripley northeast to St. Charles County. The rain periods were not well defined, falling mostly as scattered showers. The most general and generous amounts fell on the 8-9th, 22d, 26-27th, and 31st. A few stations received amounts in excess of the normal.

MISCELLANEOUS PHENOMENA.

Hail, light, with little or no damage.—At Edgerton and Warrensburg on the 6th; at Dean on the 7th, and 8th.

Halos, lunar.—10th, and 12th. Solar —5th, and 7th.

Thunderstorms.—Local, 2d, 3d, 4th, 5th, 7th, 10th, 12th, 15th, 22d, 23d, 24th, 25th, 26th, 28th, and 30th. More or less general.—6th, 8th, 9th, 21st, 30th, and 31st.

SPECIAL STORM NOTES.

Quite a severe hailstorm occurred about four miles south of Aurora, St. Lawrence County, on the 4th, at about 6 p. m. The path was less than a mile wide and about two miles long, running in a general direction from west to east. The stones varied in size from playing marbles to small walnuts. The damage, confined to fruits and crops, was estimated to be about $600 to $800.

A severe thunderstorm, attended by excessive precipitation and high wind, occurred at Kansas City on the 8th, beginning about 9:32 p. m. Considerable damage was done by water. Lightning caused a fire that destroyed a roofing plant to the extent of $3,500; and this started a fire that ultimately destroyed a Santa Fe elevator, the loss being put at about $200,000.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
								Max. velocity.		
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Miles per hour.	Direction.	Date.
Columbia	29.94	81	65	341	75	4,290	5.8	38	nw.	6
Hannibal	29.94	75	..	...	..	5,247	7.1	30	sw.	9
Kansas City	29.92	74	51	380	84	7,117	9.6	41	nw.	8
St. Joseph	29.91	78	55	379	83	5,392	7.2	34	nw.	21
St. Louis	29.94	69	48	316	70	7,213	9.7	44	nw.	[illegible]
Springfield	29 97	77	52	353	79	5,353	7.2	35	se.	7
Cairo, Ill	29.94	78	57	...	..	4,668	6.3	42	ne.	6
Keokuk, Iowa	29.95	74	56	337	74	4,902	6.6	27	sw.	9

COMPARATIVE DATA FOR JULY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	79.3	+2.3	111	50	3.31	−0.98	......	0	7	....	....	....
1889	77.1	+0.1	107	46	3.75	−0.54	......	0	8	....	....	....
1890	79.6	+2.6	106	52	2.98	−1.31	......	0	5	....	....	....
1891	72.7	−4.3	103	40	3.55	−0.74	......	0	8	....	....	....
1892	75.8	−1.2	101	45	4.99	+0.70	4.75	0	8	12	10	9
1893	77.3	+0.3	101	51	4.91	+0.62	6.44	0	8	14	12	5
1894	76.5	−0.5	109	42	2.48	−1.81	4.90	0	5	18	10	3
1895	74.4	−2.6	106	45	6.79	+2.50	6.52	0	10	10	12	9
1896	77.3	+0.3	108	48	5.87	+1.58	8.00	0	9	15	11	5
1897	78.7	+1.7	106	48	3.22	−1.07	4.05	0	6	19	9	3
1898	76.1	−0 9	104	42	5.58	+1.29	8.15	0	9	16	10	5
1899	76.0	−1.0	102	43	4.51	+0.22	4.48	0	9	15	11	5
1900	76.9	−0.1	102	46	4.11	−0.18	7.03	0	8	17	10	4
1901	85.4	+8.4	116	46	2.02	−2.27	3.78	0	5	19	10	2
1902	77.0	0.0	103	50	4.59	+0.30	5.30	0	8	17	11	3
1903	77.4	+0.4	102	51	3.22	−1.07	3.26	0	8	17	10	4
1904	74.2	−2.8	100	47	4.65	+0.36	4.15	0	10	15	11	5
1905	73.4	−3.6	101	48	7.45	+3.16	7.60	0	12	12	10	9
1906	74 7	−2.3	100	48	3.53	+0.76	4.46	0	8	17	10	4
1907	78.4	+1.4	105	47	4.57	+0.28	6.70	0	8	19	8	4
1908	76.5	−0.5	101	49	2.23	−2.06	2.65	0	8	18	9	4
1909	76.7	−0.3	102	41	6.41	+2.12	10.71	0	10	17	8	6
1910	76.8	−0.2	109	46	6.70	+2.41	5.80	0	9	16	9	6
1911	78.0	+1.0	113	43	3.95	−0.34	4.20	0	8	16	9	6
1912	78.8	+1.8	104	52	2.74	−1.55	3.17	0	7	18	9	4
1913	80.2	+3.2	108	47	3.13	−1.16	3.62	0	7	18	9	4
1914	80.5	+3.7	109	45	2.67	−1.66	4.45	0	7	17	9	5
1915	74.6	−2.4	102	42	6.05	+1.59	6.77	0	12	14	9	8
1916	81 6	+4.6	109	52	1.25	−3.15	2.55	0	3	25	5	1
1917	77.5	+0.2	107	42	2.96	−1.22	3.40	0	8	20	8	3
1918	77.1	+0.2	110	41	1.76	−2.49	3.75	0	6	19	8	4
1919	80.0	+2.3	115	50	2.33	−1.37	4.55	0	5	23	6	2
1920	76.3	−0.9	105	47	3 25	−0.84	3.84	0	7	18	8	5
1921	80.3	+2.9	109	46	2.32	−1.77	2.25	0	5	20	8	3
1922	76.8	−0.7	103	46	5.85	+1.82	12.25	0	8	17	9	5
1923	78.2	+0.7	105	50	3.07	−0.89	7.42	0	6	18	8	5
1924	73.3	−4.1	103	40	5.39	+1.34	7.14	0	10	15	11	5
1925	77.9	+0.5	106	46	2.71	−1.34	3.25	0	7	16	10	5
1926	78.0	+0.6	108	40	3.14	−0.91	6.00	0	7	17	9	5

Climatological Data for July, 1926.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	78.8	+ 3.1	101	2†	53	14	32	3.96	−0.68	1.46	0	7	19	4	8	s.	O. K. Benecke
Clifton Hill	Randolph	731	26	76.6	+ 0.2	99	29	50	14	32	3.52	−0.36	1.35	0	7	12	19	0	.....	Dr. A. J. Bradsher
Columbia	Boone	748	35	77.2	+ 0.3	97	2	51	14	29	4.15	+0.50	2.77	0	8	14	10	7	s.	U. S. Weather Bureau
Downing	Schuyler	878	4	76.5	......	96	2†	50	13†	31	4.32	−0.61	1.54	0	7	22	7	2	s.	E. E. St. Clair
Fayette	Howard	661	45	76.3	− 1.1	100	29	47	14	35	5.54	+1.89	1.88	0	7	..	..	..	......	J. D. Settle
Fulton	Callaway	818	37	77.8	− 0.1	99	2†	50	14	34	3.77	−0.22	2.02	0	5	16	12	3	....	Chamber of Commerce
Gorin	Scotland	700	38	....	......	..	..	..	..	..	2.55	−1.48	1.08	0	11	9	11	11	se.	J. W. Pulliam
Hannibal	Marion	534	33	77.8	+ 1.0	99	2	51	14	28	1.90	−1.85	0.89	0	8	11	15	5	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	37	78.0	− 0.1	99	29	54	14	32	4.74	+1.29	2.75	0	6	21	7	3	s.	Miss Emma Swift
Kirksville	Adair	969	36	76.0	− 0.1	97	29	52	14	31	2.64	−1.81	1.72	0	6	19	6	5	sw.	Prof. J. S. Stokes
Louisiana	Pike	469	31	77.2	+ 0.8	98	2	45	14	37	5.57	+2.45	1.95	0	8	21	9	1	w.	J. T. Farrell
Macon	Macon	875	26	77.4	0.0	99	29	51	14	31	2.75	−1.01	1.00	0	9	18	8	5	sw.	W. C. Brown
Mexico	Audrain	800	36	77.7	+ 0.4	101	2	51	14	32	6.36	+2.61	3.72	0	7	21	3	7	sw.	Mrs. Abbie Snoddy
St. Catharine(near)	Linn	800	14	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	.....	L. D. Baker
St. Charles	St. Charles	456	37	81.0	+ 2.9	104	30	52	14	33	1.33	−1.90	1.20	0	2	16	13	2	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	81.0	+ 2.3	98	2	60	14	23	0.54	−2.89	0.40	0	4	17	7	7	sw.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	80.6	+ 0.5	99	20	59	14	24	0.65	−2.10	0.59	0	4	23	8	0	n.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	..	..	..	3.79	−0.37	1.94	0	6	..	..	..	..	J. C. Jewett
Steffenville	Lewis	650	27	78.6	+ 0.6	103	29	55	11†	34	5.40	+0.97	1.16	0	10	17	11	3	n.	Frank Hall
Unionville	Putnam	1,062	32	76.6	0.0	100	29	48	14	34	2.00	−2.29	0.95	0	6	17	6	8	s.	Geo. W. Davis
Warrenton	Warren	816	43	78.2	+ 0.4	100	30	52	14	30	3.45	+0.03	1.29	0	5	15	11	5	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	77.4	+ 0.5	96	2	53	14	26	2.77	−1 26	1.04	0	9	10	11	10	sw.	U. S. Weather Bureau
Section means and	extremes	.....	..	77.9	+ 0.5	104	30	45	14	37	3.41	−0.43	3.72	0	7	17	9	5	sw.	
Southeast Lowlands.																				
Benton	Scott	340	0	....	......	..	..	..	..	..	3.81	......	1.57	0	7	..	..	..	....	E. R. Tirmenstein
Campbell	Dunklin	314	0	79.6	......	106	3	49	15	40	3.35	......	2.40	0	8	15	9	7	se.	Jeff. King
Caruthersville	Pemiscot	265	29	81.6	+ 1.0	104	3	58	15	30	2.12	−1.29	0.59	0	6	13	7	11	se.	John T. Markey
Doniphan	Ripley	344	21	79.4	+ 1.2	105	3	51	15	42	3.12	−1.61	1.00	0	7	11	13	7	sw.	W. W. Martin
Jackson	Cape Girardeau	428	34	78.6	+ 1 2	104	3	48	15	42	3.27	−0.25	1.24	0	8	8	6	17	s.	John G. Putz
Marble Hill	Bollinger	470	30	79.5	+ 2.2	108	2	47	15	46	3.37	−1.31	0.70	0	8	14	16	1	w.	R. A. DeWitt
Morehouse	New Madrid	289	24	....	......	..	..	..	..	..	3.39	−1.38	1.13	0	8	20	10	1	s.	John A. Spence
Parma	New Madrid	281	4	....	.....	..	..	..	..	..	1.57	......	0.60	0	5	..	..	..	.....	H. W. Kendall
Patton	Bollinger	605	16	....	......	..	..	..	..	..	2.92	−0.82	1.28	0	8	..	..	..	.....	S. P. Presnell
Poplar Bluff	Butler	329	21	79.0	+ 0.3	107	3	50	15	45	5.55	+2.00	3.55	0	8	20	6	5	s.	J. H. Wolpers
Sikeston	Scott	318	20	80.2	+ 2.1	102	3	54	15	35	8.65	+3.88	6.00	0	6	15	6	10	sw.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	359	50	80.0	+ 0 4	101	3	61	15	27	3.22	−0.23	0.75	0	11	9	14	8	s.	U. S. Weather Bureau
Section means and	extremes	....	..	79.7	+ 1.2	108	2	47	15	46	3.69	−0.09	6.00	0	8	14	10	7	s.	
Ozark Plateau.																				
Arcadia	Iron	926	44	75.9	0.0	102	3	47	14	42	3.60	−0.64	2.22	0	5	26	3	2	sw.	Arcadia College
Aurora	Lawrence	1,370	..	76.0	− 1.8	94	4	50	14	27	2.47	−2.89	1.05	0	8	17	13	1	sw.	W. T. Troughton
Birchtree (near	Shannon	1,000	30	78.6	+ 2.2	102	3	52	14	36	5.00	+1.01	3.00	0	7	21	5	5	se.	V. H. Kirkendall
Bolivar	Polk	1,071	31	78.2	+ 1.1	104	30	50	14	35	0.50	−3.25	0.37	0	2	18	9	4	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	96	5	..	..	..	5.18	+1.13	1.43	0	10	21	6	4	sw.	H. E. Dean
Eldon	Miller	934	29	78.0[c]	+ 1.0	100	18†	49	13	39	2.10	−1.56	0.70	0	6	7	19	5	s.	E. H. Shepherd
Farmington	St. Francois	918	14	78 2	+ 2.9	104	3	51	14†	43	2.79	−0.76	1.04	0	7	13	16	2	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	78.9	+ 2.0	103	3	49	14	41	1.50	−2.00	0.58	0	5	20	8	3	s.	A. C. Leach
Goodland	Iron	1,000	31	75.2	− 0.4	103	3	40	24	54	3.26	−0.92	1.13	0	5	17	8	6	s.	F. M Adams
Greenville	Wayne	381	3	76.4	. ....	105	3	48	14†	44	4.81	.....	1.25	0	9	19	7	5	s.	Wm. P. Owens
Hailey	Barry	1,350	0	....	......	..	..	..	..	..	3.29	......	1.00	0	6	21	9	1	w.	A. W. Madison
Hollister	Taney	735	38	78.0	− 1.4	101	4†	45	16	42	3.80	−0.12	1.60	0	5	22	2	7	s.	Mrs. W. P. Chapman
Koshkonong	Oregon	958	24	81.2	+ 2.9	103	3	57	15	32	3.88	−0.04	1 70	0	5	21	9	1	n.	R. M. Hitt
Lebanon	Laclede	1,265	37	76.8	− 0.1	103	6†	45	14†	42	2.44	−1.68	0.85	0	5	21	7	3	s.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	75.0	− 2.6	97	29	51	14	29	0.62	−4.25	0.30	0	3	22	6	3	sw.	C. S. Crow
Mountain Grove(near)	Wright	1,463	24	78.3	+ 2.3	102	4	46	14	30	2.06	−1.94	0.91	0	7	16	15	0	sw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	75.1	− 2.5	99	22	43	21	45	2.82	−1.36	0.91	0	7	23	7	1	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	78.6	+ 1.2	102	6	52	14	40	1.89	−2.20	1.02	0	5	20	10	1	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	76.4[d]	− 0.2	96	4†	54	15	30	3.14	−1.26	1.95	0	6	19[d]	6[d]	2[d]	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,642	19	75.4	− 0.1	98	30	44	14	38	1.41	−3.34	0.70	0	6	18	13	0	s.	Ira H. Hailey
Springfield	Greene	1,350	37	77.4	+ 0.6	96	5	56	14	27	1.02	−3.77	0.52	0	6	21	9	1	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	77.2	+ 0 4	105	3	40	24	54	2.85	−1.48	3.00	0	6	19	9	3	sw.	
Southwest Plain.																				
Amoret	Bates	831	18	78.0	+ 0.4	101	5†	48	14	38	1.97	−1.99	0.70	0	6	19	9	3	sw.	Andrew Rood
Appleton City	St. Clair	853	31	79.1	+ 0.8	102	5	53	14	32	2.40	−2.23	2.18	0	4	15	15	1	sw.	W. G. Bigelow
Clinton	Henry	765	32	80.2[a]	+ 2.7	104	3	54	14	35	4.23	−0.29	2.50	0	7	21[a]	9[a]	0[a]	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	78.6	+ 0.8	102	5	54	14	34	0.73	−3.05	0.45	0	5	9	22	0	s.	John H. Patterson
Lamar	Barton	980	38	77.8	− 0.7	100	5	51	14	32	1.66	−−2.58	0.72	0	5	23	7	1	sw.	Jesse A. Mann
Lamonte	Pettis	867	24	...	......	..	..	..	..	..	....	......	....	..	..	..	..	..	.	J. E. Wheeler
Marshall	Saline	779	36	79.2[a]	+ 1.9	104	2	51	14	40	5.13	+1.17	2.30	0	6	15	9	7	sw.	Dr. W. H. Black
Nevada	Vernon	862	32	78.6	− 1.6	99	3†	52	14	31	2.46	−1.47	1.15	0	3	22	4	5	sw.	George A. Kaupp
Warrensburg	Johnson	878	38	79.4	+ 0.6	99	6	53	14	21	3 29	−0.66	1.01	0	9	20	9	2	sw.	L. B. Johnston
Warsaw	Benton	687	25	79.8	+ 1.5	103	28	46	14	40	2.10	−2.20	1.34	0	6	16	9	6	w.	Everett Martin
Section means and	extremes	.....	..	79.0	+ 0.7	104	2†	46	14	40	2.66	−1.46	2.50	0	6	18	10	3	sw.	
Northwest Plateau.																				
Bethany	Harrison	916	33	78.0	+ 2.0	100	29	48	14	37	1.62	−2.89	0.44	0	6	14	11	6	sw.	M. H. Moulton
Chillicothe	Livingston	779	16	77.5	− 2.7	99	2†	48	14	36	1.39	−3.19	0.34	0	8	17	12	2	sw.	Wm. J. Olenhouse
Conception	Nodaway	980	36	77.9	+ 1.5	102	2	56	14	32	3.02	−1.28	0.56	0	12	11	16	4	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	77.1[c]	......	98	2†	50	14	34	3.61	−1.19	1.06	0	9	23[b]	5[b]	1[b]	s.	Fred L Stiff
Grant City	Worth	1,134	21	75.8	− 0.4	97	2	52	14	30	6.09	+0.93	1.75	0	9	16	13	2	s.	W. P. Spillman
Kansas City	Jackson	963	36	78.9	+ 0.8	99	2	61	14	25	6.59	+1.75	5.06	0	10	15	12	4	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	75.8	− 1.1	98	2	52	14	32	3.36	−0.57	0.90	0	9	19	7	5	sw.	Liin Terry
King City	Gentry	1,095	0	....	......	..	..	..	..	..	2.71	......	0.79	0	8	..	..	..	...	D. B. Oliver
Lexington	Lafayette	688	40	78.2	+ 1.1	99	2	54	14	30	3.33	+1.39	2.13	0	7	18	10	3	s.	Edwin G. Loomis
Liberty	Clay	859	35	79.2[g]	+ 1.1	101	2	52	14	35	4.82	+0.48	2.36	0	5	17[g]	3[g]	4[g]	s.	Doran H. Coffman
Maryville	Nodaway	1,169	35	76.4	+ 0.8	100	2	53	14†	32	4.99	−0.40	1.62	0	9	18	1	12	s.	J. R. Brink
Oregon	Holt	1,048	69	78.6	+ 3.0	102	2	57	11†	31	4.75	+0.43	1.52	0	9	19	9	3	sw.	Mina Wright
St. Joseph	Buchanan	967	17	78.6	− 0.2	101	2	59	11	28	3.78	+0.74	1.18	0	9	17	13	1	sw.	U. S. Weather Bureau
Tarkio	Atchison	916	22	77.0	0.0	100	20†	54	11†	36	2.92	−0.79	0.86	0	7	17	8	6	se.	Albert Volker
Trenton	Grundy	822	29	77.0	+ 0.1	95	2	53	15	29	3.66	−0.67	1.31	0	7	20	11	0	s.	W. H. Estes
Section means and	extremes	.....	..	77.6	+ 0.5	102	2	48	14	37	3.78	−0.38	5.06	0	9	18	9	4	s.	
State means and	extremes	.....	..	78.0	+ 0.6	108	2	40	24	54	3.14	−0.91	6.00	0	7	17	9	5	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b], represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson; of Gano, Salem, R. F. D. No. 5.

Daily Precipitation for July, 1926.

Stations.	Drainage-basins.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Northeast Plain.																																	
Boonville‖	Missouri			.35	.47			.26		2.20	.05		T.										.13					.06				.09	3.61
Brunswick‖	Grand				.03		.04	1.08		1.46	.38												.37									.60	3.96
Clifton Hill	Chariton						.15		.36	1.35			.03									T.	.64				.46					.53	3.52
Columbia***	Missouri			T.			.43		1.04	1.78			T.			T.						.04	.08				.76				.01	.01	4.15
Downing	Mississippi			.64	.06					.82			.11									T.	1.54								.70	.45	4.32
Fayette‖‖	Missouri			.71			1.88		.20	2.05												.09									.20	.41	5.54
Fulton‖	do									2.02	.31												.77					.40				.27	3.77
Gorin	Mississippi			.26	.02				.04	.57			.01									.12	1.08					.03	.15		.13	.14	2.55
Hannibal***	do			.02	T.		.15		.09	.82			.04									T.	.04								.29	.45	1.90
Hermann‖	Missouri	.43						.20		1.66	.50						T.						.20					.10				.06	3.15
Jefferson City‖	do							.10		2.75	.85			.03									.30									.71	4.74
Kirksville	Mississippi			.25	.05		.12															.20	1.72								.30		2.64
Louisiana	do			T.			.30		1.28	1.25	.35					T.							.01		T.				.23		.20	1.95	5.57
Macon ‖	Chariton			.05			.10	.09		.62	.12			.16									1.00					.41				.20	2.75
Mexico ‖	Mississippi			T.			.27	.68		3.72	.14												.02					1.18				.35	6.36
Milan‖	Grand		T.		.25		.10			1.05				.10									1.90		.25								3.65
Pacific‖	Meramec					.30					.42			.03																			0.75
St. Catharine (near)	Grand																																....
St. Charles	Missouri								T.		1.20																					.13	1.33
St. Louis (1)***	Mississippi							T.	.07	.40	T.		.02	T.								.05				T.							0.54
St. Louis (2)	do							T.	.02	.59			.02	T.								.02											0.65
Shelbina ‖‖	do			T.				.40		.80	.08			.19									.38									1.94	3.79
Steffenville	do			.67			.25		.17	1.16			.20										.30					1.05	T.	.38	.15	1.07	5.40
Union‖	Meramec	.99						.10		.07	.37																						1.53
Unionville ‖	Chariton			.70	.25					.50												T.	.30					.05	T.			.20	2.00
Warrenton	Mississippi								1.27	.65	.07					T.						.17										1.29	3.45
Keokuk, Ia.***	do			.08			.16		.10	.54	T.		T.									.92	.12						.10		.08	.67	2.77
Southeast Lowlands																																	
Benton	Mississippi				.25				.22					.29									.21		1.57		1.04	.23					3.81
Campbell‖	St. Francis	.02						.11		.05				.06										.38		.03	.30	2.40					3.35
Cape Girardeau‖	Mississippi	.34								.30					.18									.03				.56					1.41
Caruthersville ‖	do				.38			.12	.24						.59										T.	T.	T.	.58				.21	2.12
Dexter	St. Francis							.20	.42					.04	T.								35	1.30			.50	1.11					3.92
Doniphan	Black				.50	T			.43					.25									1.00		.10		.72					.12	3.12
Jackson	Mississippi				.08	.29			.43														.80	.02			.30	.11				1.24	3.27
Marble Hill	Mississippi				.30	.60	.10		.42	.10													.70				.70					.45	3.37
Morehouse	do					.02		.03	.45					1.13									.42				.13	.29				.92	3.39
New Madrid‖	do	.02						.80		.12				.02	.77									3.10			.51	.41					5.75
Parma	St. Francis								.09					.17									.19				.60					52	1.57
Patton	Mississippi					.04	.59	.04	.65														.18				1.28				.10	.04	2.92
Poplar Bluff ‖	Black				.58		.90	.05	.07														.30		.03		3.55					.07	5.55
Sikeston	Mississippi	6.00			.02					.34					.64									.05				1.60					8.65
Cairo, Ill.***	do			T.	.64	.31	.07	T.	.75					.01									.13		.58		.15	.44			.04	.10	3.22
Ozark Plateau.																																	
Arcadia ‖	St. Francis	T.					.06	.40		.12					T.								T.	.80		T.	2.22						3.60
Aurora	Neosho							.10	T.	.20	.23		.12													.09		.62			1.05	.06	2.47
Birchtree (near)	Black							3.00	.70														.44	.02	.42		.32					.10	5.00
Bolivar	Osage								.13													.37											0.50
Caplinger Mills	Osage							.01		.12			.10									.10	.25								.01		0.59
Dean	Neosho							.92	.82	1.00	1 43		.25	.05								.02	.04		.01	.64							5.18
Eldon ‖‖	Missouri								.53	.43												.70							.03	.29		.12	2.10
Farmington	St. Francis			.02			.08		.62	T.	.52			.03										1.04	T.	.48						T.	2.79
Fredericktown‖‖	do							T.		.03														.85		.20	.10	1.26					2.44
Galena‖‖	White							.36		.30															.32		.57						1.55
Gano	Meramec					.21	.08		.52																	T.	.11					.58	1.50
Goodland	Black					1.13		.46	.72																		.90					.05	3.26
Greenville	St. Francis					.32	.22			1.25				.92									.66	.66			.60	.09				.09	4.81
Hailey	White					.68	.48	.43					.40													1.00						.30	3.29
Hollister	do								1.00	.20				.10																.90	1.60		3.80
Jerome ‖	Gasconade							.40	.05	T.	.98																					.60	2.03
Koshkonong	Black				.27	T.	T.	T.	.30					.52											1.09		1.70						3.88
Lebanon ‖	Osage							.14	.50	.85	.35											T.		T.								.60	2.44
Lockwood	do									.30			.21									T.								.11		T.	0.62
Mountain Grove‖	White							.12	.26	.50	.12												.91				.12	.03					2.06
Neosho	Neosho							T.	.91	.47	.38		.25	.03								T.	T.		.72							.06	2.82
Owensvillh	Gasconade									.90													.17					.10			.17		1.34
Rolla ‖	Meramec						1.02			.58																					.05	.24	1.89
Seligman	Neosho								.28	1.95	.51		.17									T.			.08							.15	3.14
Seymour (near)	White						T.	.04	.70	.18			T.	T.								.13			T.	T.	.12				T.	.24	1.41
Springfield***	do						T.		T.	.07			.03	T.								T.	T.		.02	.38	.50				T.	.02	1.02
Steelville‖	Meramec	.73						.50	.05	.40	.44																					T.	2.12
Stover	Missouri									3.04	.20												.87										4.11
Tuscumbia ‖	Osage							.09		.77	.27												.13									.04	1.30
Willow Sprgs.‖‖ (near)	White						T.	.66			.12												.22				.26	.25				.31	1.82
Southwest Plain.																																	
Amoret	Osage									.05			.37									.26	.36							.70		.23	1.97
Appleton City	do								T	.02			.10									.10	2.18							T			2.40
Clinton	do							2.50	.05	.05												.30	.88								.35	.10	4.23
Concordia	Missouri						1.25	.25		2.33												.15										.10	4.08
Harrisonville‖	Osage							.15					.03	02									.45									.08	0.73
Joplin*	Neosho							.20	.20	.94			.28									.55	.06		.22								2.45
Lamar ‖	do									.13				.36									.15			.72					.30		1.66
Lamonte	Missouri																																....
Marshall	do			T.			.53	.05	.10	2.30			T.			T.						T.	T.								.05	2.10	5.13
Nevada	Osage									.76			.55										1.15									T.	2.46
Osceola‖‖	do									.41													.10										0.51
Warrensburg	Missouri			1.01			.25	34	T.	.13	T.		.01			.01							.69								.24	.61	3.29
Warsaw ‖	Osage			.43		.14		T.	T.	.14	T		.02									T.	.03									1.34	2.10
Waverly ‖	Missouri				T.	T.	T.	.22	.04	2.53			T.	T.		.10	T						.37								T.	T.	3.26
Northwest Plateau.																																	
Albany‖‖	Grand			.40					.80					.42								.82									.16		2.60
Bethany	do			T.	.41				T.	.03						.12						.37	44								T.	.25	1.62
Chillicothe ‖‖	do				.19		T.	T.	T.	.26	.21		T.	T		.04	.01						.34						T.		.01	.33	1.39
Conception	Missouri		.06		.50		.56		.16	.19				.15		.22						.31	.11							.11	.27	.38	3.02
Edgerton	do				.03		1.06	.27	.95	.25						.05							.23								.73	.04	3.61
Gallatin ‖	Grand				T.					.75				.38									1.30										2.43
Grant City	do				.30		.38		.12	.10				1.23		.68							1.75							T.	1.32	.21	6.09
Kansas City***	Missouri				T.		.08	.97	4.59	.47			.15			.10						.01	.01								.07	.14	6.59
Kidder ‖	Grand				.49			.17		.90	.13			.42		.10	.04						.22									.89	3.36
King City	Missouri				.79		.12		.42	.09						.39							.65								.20	.05	2.71
Lexington ‖	do							.65	.05	2.13	.02					.05							.33									.10	3.33
Liberty ‖	do							.15		2.36			T.	.51		.08																1.72	4.82
Maryville ‖	do			.01	.45		.37		1.04		.25			.83		.33							1.62								.09		4.99
Oregon	do				.51		.07	.20	1.20	.37				T.		1.52						.25								.27	.36		4.75
St. Joseph***	do				.52	.07	.02	1.18	T.	.15			.74			.74						.17									.19	T.	3.78
Tarkio	do			.57	.26		.05		04	.53			T.			.61															.86		2.92
Trenton	Grand		T.		.26		.03	.08	T.	.71			T.			T.						1.23									.04	1.31	3.66

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for July, 1926.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	96	101	94	87	95	96	90	87	90	80	84	85	78	83	82	91	92	95	95	96	92	85	90	95	88	90	92	98	101	91	87	90.5
	Minimum	68	71	77	69	69	74	67	70	68	66	59	64	65	53	65	63	63	63	66	68	72	68	64	66	64	64	64	70	72	76	68	67.0
Columbia	Maximum	94	97	94	90	92	94	90	85	88	78	80	80	76	78	78	87	88	92	93	95	92	83	88	93	84	90	87	94	96	94	85	88.2
	Minimum	68	75	74	68	70	68	68	70	66	63	58	62	56	51	64	62	63	63	67	68	71	67	65	67	65	65	64	72	72	72	69	66.2
Fayette §§	Maximum	94	99	95	91	95	96	91	86	88	81	83	82	77	82	80	87	90	93	94	95	91	85	90	95	87	93	90	96	100	96	89	90.0
	Minimum	69	66	71	66	66	68	64	65	66	63	56	58	60	47	50	57	58	60	60	62	66	66	61	62	63	62	59	65	66	70	69	62.6
Hannibal	Maximum	96	99	87	87	93	87	93	89	88	78	81	83	73	79	78	87	90	93	94	95	94	83	87	93	84	87	91	90	98	95	81	88.2
	Minimum	69	75	71	69	68	72	69	74	67	64	57	61	56	51	64	66	67	68	69	70	75	69	65	68	67	67	69	69	74	73	71	67.5
Jefferson City §§	Maximum	95	96	98	92	94	95	93	88	90	79	82	75	77	81	77	87	91	95	95	96	92	81	87	92	84	89	91	97	99	95	84	89.3
	Minimum	67	72	72	70	70	70	68	69	67	67	61	62	64	54	60	62	65	63	68	69	72	67	65	68	67	66	64	69	72	72	70	66.8
Kirksville	Maximum	92	95	94	85	91	86	88	89	85	80	86	83	81	81	81	87	86	90	93	94	92	81	84	89	81	83	87	92	97	89	80	87.2
	Minimum	69	71	68	66	67	71	66	69	65	65	67	56	56	52	62	67	64	66	62	67	72	75	61	62	60	61	62	67	67	70	69	65.2
Louisiana	Maximum	94	98	93	92	95	95	95	93	87	80	82	83	76	82	83	86	88	92	94	96	95	93	90	93	88	88	93	93	97	96	86	90.2
	Minimum	63	72	68	70	76	64	66	68	65	68	55	55	64	45	56	62	64	62	66	63	67	70	62	60	66	65	63	62	66	70	70	64.3
Macon §§	Maximum	95	98	93	87	95	93	93	94	91	79	82	87	75	82	81	88	92	94	96	96	96	88	89	94	83	88	90	94	99	87	89	89.9
	Minimum	69	70	72	67	67	71	65	69	66	63	56	60	60	51	58	63	63	64	65	67	71	65	62	65	62	61	63	68	71	73	69	65.0
Mexico §§	Maximum	97	101	86	91	95	92	92	91	88	84	84	84	76	79	80	89	91	94	95	96	95	83	89	96	86	89	90	94	98	98	83	89.9
	Minimum	68	71	75	68	67	70	67	70	65	65	57	60	64	51	60	61	64	64	67	66	72	66	61	64	64	64	63	65	70	72	69	65.5
St. Catharine (near)	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Louis (1)	Maximum	95	98	96	93	93	94	93	90	90	79	81	83	78	77	82	88	92	96	97	98	97	84	89	93	91	86	89	93	96	96	82	90.0
	Minimum	72	80	79	73	75	78	75	75	69	70	65	65	64	60	66	67	70	73	75	78	78	74	68	73	73	71	70	74	76	77	73	72.1
Unionville	Maximum	94	98	91	88	92	92	90	88	85	80	84	85	82	80	80	88	92	94	96	98	94	86	88	90	84	88	91	96	100	91	86	89.4
	Minimum	70	74	70	66	64	70	65	70	65	62	58	60	52	48	54	65	65	64	65	70	71	62	54	62	60	61	61	65	64	70	68	63.7
Warrenton	Maximum	95	98	98	92	95	93	95	91	89	83	81	80	76	77	76	87	89	96	96	97	97	80	89	95	88	88	92	97	99	100	83	90.1
	Minimum	67	74	71	68	69	73	67	70	66	68	57	62	64	52	59	62	64	67	67	67	74	65	63	66	65	67	62	70	71	74	68	66.4
Southeast Lowlands.																																	
Campbell	Maximum	101	104	106	100	97	101	94	91	92	92	86	90	86	82	86	89	94	97	99	100	95	96	92	93	92	82	85	90	93	93	93	93.3
	Minimum	66	68	69	75	66	69	69	70	72	75	62	54	66	55	49	54	54	57	61	62	68	70	70	70	70	71	70	68	68	73	72	65.9
Caruthersville	Maximum	98	102	104	99	94	99	92	92	93	92	85	89	83	79	84	87	94	96	99	100	96	96	94	96	92	83	84	91	94	94	92	92.7
	Minimum	72	76	76	72	70	75	72	71	71	76	67	63	71	60	58	65	64	67	70	72	76	72	72	73	73	72	70	71	73	74	75	70.6
Doniphan	Maximum	100	104	105	97	98	100	85	90	95	91	88	90	84	82	86	91	93	98	99	102	97	93	90	94	91	85	89	94	95	96	94	93.4
	Minimum	68	68	69	72	70	68	63	67	69	72	61	55	66	53	51	56	60	56	60	60	70	72	70	73	70	67	69	66	68	69	72	65.5
Jackson	Maximum	101	102	104	98	95	98	92	92	90	89	82	91	85	86	86	91	92	97	100	99	99	99	89	95	95	90	87	94	95	97	95	93.7
	Minimum	65	70	69	72	70	67	68	71	70	69	63	54	61	52	48	55	56	55	59	60	67	63	61	70	67	64	67	65	61	63	69	63.6
Poplar Bluff	Maximum	99	100	107	102	94	100	90	90	93	90	90	88	86	85	87	91	94	99	100	102	97	95	95	94	95	85	91	85	98	99	91	93.9
	Minimum	65	67	66	73	68	66	69	68	70	61	69	55	65	52	50	54	54	54	59	59	61	69	69	69	68	67	67	65	67	69	69	64.0
Sikeston	Maximum	97	100	102	94	94	99	92	90	91	89	84	89	83	80	84	88	91	96	97	98	96	98	94	95	94	84	86	91	94	95	91	92.1
	Minimum	64	74	73	76	70	72	70	71	72	76	68	58	67	56	54	59	59	61	64	69	72	72	72	71	71	71	69	68	69	71	74	68.2
Cairo, Ill.	Maximum	95	99	101	94	92	96	89	88	89	86	80	86	80	78	82	86	89	93	95	96	93	92	90	92	88	83	84	91	93	92	89	89.7
	Minimum	68	76	76	68	71	71	72	69	74	71	67	63	68	61	61	64	66	66	70	73	78	73	74	73	73	70	68	73	73	74	75	70.3
Ozark Plateau.																																	
Arcadia §§	Maximum	95	99	102	96	93	94	90	81	90	79	83	82	79	79	80	85	90	95	96	97	94	89	85	88	92	82	85	90	90	93	85	89.0
	Minimum	63	65	64	72	68	65	67	67	71	67	57	52	65	47	48	55	54	53	60	62	67	71	66	65	64	68	63	63	64	66	68	62.8
Birchtree	Maximum	97	100	102	100	95	95	86	84	90	89	89	89	79	79	80	88	90	94	99	97	95	86	89	89	89	80	86	90	94	95	89	90.5
	Minimum	66	70	69	75	72	70	68	66	70	68	59	59	65	52	53	58	60	64	63	65	70	70	68	69	68	67	63	66	67	72	69	65.8
Eldon §§	Maximum	99	97	94	..	..	..	88	90	84	84	76	80	82	83	90	92	100	98	99	96	96	89	95	87	91	90	100	100	98	89	82	[c]91.0
	Minimum	70	70	70	72	68	70	68	68	67	57	60	62	49	55	60	61	61	64	64	67	65	68	67	66	65	59	63	70	70	69	66	64.9
Farmington	Maximum	95	101	104	95	96	98	96	86	91	82	81	78	72	79	86	91	96	101	101	101	97	89	89	94	92	89	90	95	96	97	90	91.9
	Minimum	65	69	67	74	67	66	67	67	61	66	59	54	64	51	51	57	61	58	65	67	74	69	67	66	67	66	62	66	64	70	69	64.4
Hollister	Maximum	96	98	100	101	101	101	95	90	91	88	89	86	88	89	90	87	90	91	96	99	90	91	92	97	98	99	98	100	100	101	90	94.3
	Minimum	60	60	70	68	64	67	60	62	68	65	68	55	56	58	60	45	50	56	54	65	60	62	64	62	64	66	64	65	66	67	66	61.8
Koshkonong	Maximum	99	100	103	102	100	100	89	87	92	86	85	86	86	80	85	88	92	96	97	100	92	92	92	97	88	84	85	92	92	96	90	92.0
	Minimum	69	75	72	70	75	79	68	74	78	78	76	69	69	66	57	68	75	66	70	68	72	73	68	69	67	67	65	67	75	72	70	70.5
Lebanon §§	Maximum	92	96	99	100	98	103	93	85	89	85	83	80	80	81	86	88	92	96	96	90	96	84	92	97	93	92	94	99	103	102	87	92.0
	Minimum	62	63	69	69	67	67	68	67	68	67	53	54	59	45	45	57	58	58	59	62	65	62	58	62	64	63	57	57	68	66	66	61.5
Mountain Grove	Maximum	95	97	99	102	101	99	92	87	88	84	85	82	82	82	82	86	93	96	94	98	90	87	92	94	94	82	92	92	98	98	90	91.4
	Minimum	65	68	67	72	72	71	68	66	68	67	54	61	64	46	52	62	63	64	67	66	69	66	64	67	65	66	62	69	70	70	70	65.2
Neosho	Maximum	90	91	94	96	96	97	97	88	89	89	87	84	81	80	82	85	89	90	93	92	94	99	92	90	90	89	91	94	95	95	91	90.6
	Minimum	59	64	63	63	65	68	65	66	66	64	54	60	61	47	54	55	55	57	49	48	43	54	47	66	67	64	63	65	67	62	68	59.6
Rolla	Maximum	95	101	100	97	97	102	91	87	89	81	85	79	78	82	82	90	90	100	98	100	94	84	91	95	92	87	90	95	98	98	83	91.3
	Minimum	71	71	70	73	73	71	66	69	69	65	58	60	61	52	56	62	63	60	65	69	72	66	64	67	66	65	59	67	70	73	69	65.9
Springfield	Maximum	89	91	93	95	96	94	89	83	86	81	83	76	79	79	79	84	88	90	90	92	85	82	88	87	89	86	89	92	95	94	84	87.4
	Minimum	69	70	73	75	73	72	70	69	68	66	60	61	60	56	59	62	64	63	68	68	72	66	66	70	67	66	64	70	73	73	70	67.3
Southwest Plain.																																	
Amoret	Maximum	95	98	99	95	101	101	98	89	94	85	90	80	83	84	87	88	92	95	96	97	92	85	90	90	88	91	96	99	99	91	88	92.1
	Minimum	61	71	75	72	69	68	70	68	60	70	52	66	63	48	59	55	57	58	63	63	62	69	60	66	64	56	61	67	68	73	68	63.9
Appleton City	Maximum	94	97	100	99	102	100	95	84	87	85	91	80	81	85	85	88	93	94	94	95	85	82	90	94	86	90	94	97	98	95	89	91.3
	Minimum	66	71	74	73	72	72	72	69	68	65	61	66	65	53	60	59	61	63	64	67	71	69	64	69	66	63	65	70	72	74	70	66.9
Clinton	Maximum	98	100	104	..	99	98	93	90	92	90	90	81	80	87	95	91	94	97	98	97	90	85	92	99	94	93	96	100	101	98	81	[a]93.4
	Minimum	66	73	75	..	76	75	70	70	70	65	70	61	62	54	62	60	62	62	63	67	73	68	64	68	65	62	64	71	72	74	70	[a]67.1
Harrisonville §§	Maximum	95	100	100	95	102	98	94	85	95	82	85	71	81	88	84	91	95	95	96	97	88	85	88	98	86	93	96	98	99	93	88	91.7
	Minimum	65	69	74	70	71	71	68	68	70	63	57	67	61	54	58	58	62	66	65	64	69	68	63	65	63	59	63	68	70	73	67	65.5
Lamar §§	Maximum	93	97	97	98	100	99	95	82	89	87	86	76	81	83	85	87	90	92	92	93	87	84	92	93	86	89	94	97	98	94	86	90.4
	Minimum	64	69	72	69	69	73	69	68	68	68	56	58	64	51	54	59	59	61	64	66	70	67	63	67	66	65	64	67	70	71	69	65.2
Lamonte	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Marshall	Maximum	100	104	98	91	..	97	93	91	92	80	85	86	78	86	86	93	98	97	100	99	96	87	94	98	90	92	95	101	103	93	87	[a]93.0
	Minimum	64	70	78	85	..	76	56	68	65	64	65	60	61	51	62	58	58	67	62	65	69	67	62	65	64	60	61	67	68	67	73	[a]65.3
Nevada	Maximum	93	95	99	98	99	98	96	85	91	84	87	79	79	82	85	86	90	93	92	93	89	86	89	92	85	89	98	97	99	94	87	90.5
	Minimum	68	72	74	67	71	74	70	69	68	65	59	66	63	52	60	60	62	63	67	67	71	68	63	67	65	62	65	70	78	74	68	66.7
Warrensburg	Maximum	94	98	96	93	96	99	91	90	90	89	84	83	80	84	84	89	93	94	95	95	94	83	88	94	92	89	92	96	98	97	87	91.2
	Minimum	67	75	73	71	72	72	68	71	70	65	60	68	64	53	63	61	64	65	67	69	73	69	64	69	65	60	65	71	75	75	70	67.5
Warsaw	Maximum	97	100	102	97	100	100	98	97	91	88	87	86	78	85	88	92	95	99	98	99	92	86	94	98	94	94	97	103	102	100	87	94.3
	Minimum	63	69	76	72	69	70	68	71	71	67	56	62	65	46	60	58	59	59	60	60	70	69	61	67	65	63	64	71	69	74	70	65.3
Northwest Plateau.																																	
Chillicothe §§	Maximum	96	99	91	88	94	89	89	83	88	81	83	84	77	84	83	89	92	93	96	96	90	84	89	92	80	92	93	97	99	93	85	89.3
	Minimum	70	71	74	68	66	73	65	69	67	64	76	63	62	48	53	63	65	65	66	68	73	67	63	62	59	59	62	70	70	70	65	65.7
Grant City	Maximum	92	97	88	87	90	88	87	81	82	79	83	87	78	82	81	86	83	90	92	94	90	80	84	85	74	85	88	93	94	84	82	86.0
	Minimum	72	74	71	69	68	69	67	69	68	62	69	63	55	52	64	65	66	66	66	72	71	63	59	64	58	60	62	69	73	67	60	65.6
Kansas City	Maximum	96	99	94	90	94	90	93	82	90	80	84	78	74	84	84	88	93	93	94	95	88	80	88	94	77	87	92	98	96	89	84	88.6
	Minimum	74	78	73	71	74	72	70	65	68	68	65	65	63	61	67	66	69	72	72	74	72	66	66	69	63	63	67	75	78	70	68	69.2
Kidder §§	Maximum	91	98	91	88	91	88	88	84	86	81	83	83	74	82	80	87	90	93	94	95	89	80	84	90	87	87	90	90	97	91	86	87.8
	Minimum	67	70	70	67	68	70	65	68	65	62	55	63	59	52	60	60	64	61	68	70	72	64	59	61	60	57	58	63	70	68	61	63.9
Lexington §§	Maximum	96	99	96	89	95	93	88	84	89	80	84	83	76	83	83	89	92	93	95	96	91	84	87	94	83	89	92	96	98	92	84	89.5
	Minimum	67	75	77	71	70	70	69	70	66	65	58	65	65	54	62	64	66	66	70	69	71	68	63	64	63	60	63	70	70	72	67	66.8
Maryville	Maximum	91	95	100	86	87	90	89	90	83	82	80	83	89	78	85	83	88	91	92	95	96	86	81	86	89	81	84	89	96	94	84	87.8
	Minimum	73	76	70	68	68	67	69	68	69	61	54	65	55	53	53	64	64	64	70	72	72	62	61	64	58	59	61	71	72	71	68	65.2
Oregon	Maximum	97	102	89	90	95	90	94	83	87	81	87	85	80	87	88	92	94	95	96	98	89	86	92	89	76	86	94	99	97	88	87	90.1
	Minimum	74	76	71	70	70	72	69	69	67	63	57	70	59	58	62	65	66	67	72	74	69	63	61	65	58	57	64	75	75	72	68	67.0
St. Joseph	Maximum	97	101	88	88	92	87	92	82	88	79	81	85	77	87	86	90	93	95	96	97	90	83	87	86	77	84	91	99	98	88	85	88.8
	Minimum	75	78	71	70	72	73	71	71	70	66	59	64	62	59	63	68	68	70	74	75	69	65	65	66	60	60	65	76	77	70	68	68.4
Trenton	Maximum	92	95	89	87	87	86	88	87	85	82	79	81	83	80	82	85	87	88	90	94	92	84	86	89	86	86	88	90	94	87	84	87.0
	Minimum	75	78	78	70	69	70	68	71	67	65	59	57	61	59	53	63	65	68	70	72	73	65	63	64	65	64	66	72	71	73	63	67.0

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 8-24-26—875.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXX. COLUMBIA, MO., AUGUST, 1926. No. 8.

GENERAL SUMMARY.

August, 1926, was warmer than normal in all of Missouri, and it was wetter than usual in all except the northwest plateau. There were some real hot days but the excess of warmth was largely due to high minima or night temperatures. Probably the latter part of the month when the relative humidity was high was the most uncomfortable from the side of personal comfort.

The general lack of rain during the preceding months continued during most of the first half of August, and all crops were marked by drought effects and particularly the upland crops in the eastern, southern, and northwestern sections. Fortunately, before becoming too serious, the drought was broken by general and copious rains during the latter half of the month.

The deficiency in moisture was more than made up, large excesses occurring at nearly all stations. In the southeastern section the rainfall was more than twice the normal, and resulted in some temporary setbacks.

Thunderstorms were of almost daily occurrence during the latter part of the month, but were remarkably free from the usual attending hail and wind squalls, no damage to crops or property being reported from any section.

August rains came too late to help most of the earlier planted crops, but late corn, sorghums, and legumes were benefited. Pastures made some improvement after the rains, as well as alfalfa and wild hay, and most truck crops. Highway work as well as other outdoor building made slower progress after the rains began.

TEMPERATURE.

The monthly mean temperature for the State, was 77.5 degrees, about 1.5 degoees higher than the 36-year normal and the sixth consecutive warm August. Temperatures were quite uniform in all parts of the State, although the month did average about one degree warmer in the northwestern plateau than in the other divisions because there was more sunshine and less rain in the northwest. There were no prolonged periods of heat, five consecutive days of the last week being the longest. The highest temperatures, however, occurred during the first ten or twelve days. Afternoon temperatures in excess of 100 degrees occurred at one or more stations in all divisions on the 6th, 9th, and 11th. The maximum was 106°, and is not unusual for August. The night values dropped to about 50 degrees on the 25th, but, as a rule, the nights were rather persistently warm.

PRECIPITATION.

The precipitation for the State, 105 stations reporting, was 5.63 inches, or about 1.95 inches more than the 56 years' average. Most of the first ten or twelve days were dry, drought effects being quite marked in most of the eastern, southern, and northwestern counties; but from about or soon after the 12th on up to the 20th rains were frequent, copious, and general, and they were fairly general and heavy occasionally during the last ten days. Excessive amounts fell in the southeastern lowlands and locally in the Ozarks and southwestern plain. Amounts were less than normal and not quite satisfying in St. Louis and Franklin Counties, in the east, and Cass and Jackson Counties, in the west, thence northward to the Iowa border. The greatest rainfall in any 24 consecutive hours was 5.83 inches, at Doniphan. The heaviest monthly amounts were 13.55 inches, at Hollister, 12.71 inches, at Campbell, 11.09 inches, at Parma. 11.82 inches, at Morehouse, and 12.70 inches, at Sikeston. Several other stations in this wet section received more than 7 inches.

MISCELLANEOUS PHENOMENA.

Fogs.—4th, 5th, 15th, 17th, 18th, and 19th.

Hail.—Small (no damage) at Edgerton on the 19th, and Lebanon and Warrenton on the 20th.

Halos, lunar.—16th.

Halos, solar.—5th, 6th, 8th, 13th, 18th, 19th, 20th, 22d, and 29th.

Thunderstorms, local.—1st, 2d, 6th, 10th, 11th, 14th, 15th, 18th, 21st, and 22d. General.—12th, 13th, 16th, 17th, 19th, 23d, 29th 30th, and 31st.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.96	89	71	272	64	3,742	5.0	23	n.	13
Hannibal	29.96	87	..	...	..	4,501	6.0	26	nw.	19
Kansas City	29.95	79	55	331	78	5,855	7.9	34	ne.	6
St. Joseph	29.95	88	58	327	77	4,276	5.7	38	nw.	11
St. Louis	29.97	82	58	267	63	6,770	9.1	38	sw.	20
Springfield	29 97	83	64	282	67	5,510	7.4	35	nw.	20
Cairo, Ill	29.97	91	78	...	..	4,124	5.5	42	sw	16
Keokuk, Iowa	29.98	84	71	276	65	3,877	5.2	28	se.	9

COMPARATIVE DATA FOR AUGUST.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	74.0	−1.6	110	48	7.25	−3.80	....	0	11	....	....	....
1889	73.5	−2.1	101	52	1.96	−1.49	....	0	14	....	....	....
1890	73.3	−2.3	104	49	4.84	+1 39	....	0	9	....	....	....
1891	73.2	−2.4	108	38	5.34	+1.89	....	0	8	....	....	....
1892	74.3	−1.3	100	40	2.42	−1.03	4.55	0	6	17	8	6
1893	72.8	−2.8	100	40	2.20	−1.25	5.66	0	4	18	10	3
1894	77.0	+1.4	111	39	1.58	−1.87	3.07	0	5	14	16	1
1895	75.3	−0 3	104	48	4.23	+0.78	3.50	0	8	15	11	5
1896	76.6	+1.0	108	41	3.25	−0.20	4.80	0	6	17	10	4
1897	74.1	−1.5	108	41	2.39	−1.06	5.00	0	6	19	9	3
1898	75.8	+0.2	103	44	3.03	−0.42	4.75	0	5	17	10	4
1899	78.8	+3.2	107	49	3.35	−0.10	4.28	0	7	18	10	3
1900	80 3	+4.7	105	52	3.51	+0.06	2 77	0	6	19	9	3
1901	78.4	+2.8	109	47	1.88	−1.57	4.33	0	5	19	9	3
1902	75.0	−0.6	103	47	6.16	+2.71	7.84	0	10	14	11	6
1903	74.4	−1.2	102	43	5.40	−1.95	6.40	0	10	16	11	4
1904	73.7	−1.9	100	43	5.46	+2.01	4.43	0	8	16	10	5
1905	76.4	+0.8	102	48	4.69	+1.24	3.94	0	8	19	7	5
1906	76.6	+1.0	101	40	4.72	+0.27	3.55	0	11	14	10	7
1907	77.3	+1.7	109	47	3.71	+0.26	6.30	0	9	17	8	6
1908	76.4	+0.8	102	46	3.87	+0.42	3.57	0	8	17	9	5
1909	79.5	+3.9	110	40	0.55	−2.90	4.00	0	2	24	6	1
1910	74.7	−0.9	103	40	2.77	−0.68	5 80	0	6	15	9	7
1911	75.4	−0.2	109	41	4.20	+0 55	5.17	0	7	15	8	8
1912	76.2	+0.6	104	41	4.19	−0.74	2.62	0	9	17	8	6
1913	82.8	+6.9	110	41	1.06	−2.51	3.51	0	3	22	7	2
1914	78.0	+1.8	106	49	4.25	+0.60	8.50	0	9	15	9	7
1915	69.8	−6.5	98	37	7.86	+4.15	8.20	0	12	12	9	10
1916	79.2	+2.9	107	41	4.05	+0.49	6.48	0	7	19	7	5
1917	73.3	−2.9	104	38	4.45	+0.94	5.20	0	9	16	8	7
1918	81.8	+5.8	111	45	3.34	−0.27	3.42	0	8	17	9	5
1919	75.7	−0.5	106	44	4.29	+0.49	7 00	0	8	17	9	5
1920	73.1	−3.0	102	43	4.78	+0.89	5.77	0	9	15	8	8
1921	76.8	+0.8	109	48	5.27	+1.63	5.20	0	9	14	0	7
1922	77.5	+1.2	107	46	2.40	−1.60	3.87	0	6	18	18	5
1923	77 3	+1.3	108	42	3.99	+0.31	5.25	0	8	16	9	6
1924	77.2	+1.2	106	48	4.14	+0.46	3.50	0	7	19	8	4
1925	76.5	+0.5	107	45	3.45	−0.23	4.26	0	6	19	8	4
1926	77.5	+1.5	106	50	5.63	+1.95	5.83	0	10	15	9	7

Climatological Data for August, 1926.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	78.3	+ 4.5	101	9	56	25	34	3.32	−0.57	1.42	0	7	15	6	10	se.	O. K. Benecke
Clifton Hill	Randolph	731	26	76.2	0.0	102	10	54	25	36	4.03	0.00	1.14	0	9	13	7	11	......	Dr. A. J. Bradsher
Columbia	Boone	748	35	76.2	+ 0.6	101	10	55	25	27	5.07	+2.03	1.84	0	12	10	12	9	n.	U. S. Weather Bureau
Downing	Schuyler	878	4	76.4	......	95	5†	56	24†	32	2.85	−0.67	0.95	0	10	21	7	3	n.	E. E. St. Clair
Fayette	Howard	661	45	75.8	− 0.3	102	10	51	25	39	4.16	+0.94	1.03	0	6	..	..	..	......	J. D. Settle
Fulton	Callaway	818	37	77.2	+ 0.7	103	11	56	26	34	4.25	+0.74	1 30	0	8	17	8	6	......	Chamber of Commerce
Gorin	Scotland	700	38	....	......	..	..	..	..	..	2.81	−0.19	0.96	0	11	10	7	14	sw.	J. W. Pulliam
Hannibal	Marion	534	33	76.8	+ 1.8	98	10	58	25	30	6.31	+2.93	1.30	0	10	8	12	11	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	37	77.5	+ 0.8	104	10	59	25	37	4.52	+1.46	1.28	0	9	18	7	6	s.	Miss Emma Swift
Kirksville	Adair	969	36	75.7	+ 1.7	96	9†	56	24	34	5.84	+2.52	1.90	0	7	18	2	11	w.	Prof. J. S. Stokes
Louisiana	Pike	469	31	77.4[a]	+ 2.4	101	10	53	25	34	8.34	+4.61	2.05	0	12	20[c]	6[c]	2[c]	w.	J. T. Farrell
Macon	Macon	875	26	76.3	0.0	98	9	55	25	35	4.64	+1.36	1.75	0	8	18	8	5	sw.	W. C. Brown
Mexico	Audrain	800	36	76.2	+ 0.1	102	10	55	25	34	5.48	+2.23	2.16	0	10	16	2	13	sw.	Mrs. Abbie Snoddy
St. Catharine(near)	Linn	800	14	....	......	..	..	..	..	..	3 86	+0.16	2 00	0	6	..	..	..	......	L. D. Baker
St. Charles	St. Charles	456	37	79.7	+ 3.0	106	11	57	25	37	4 19	+0.73	0.89	0	10	12	9	10	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	79.4	+ 1.9	100	11	64	8	28	1.83	−0.83	0.58	0	9	10	14	7	sw.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	79.0	+ 1.8	100	6	62	25	27	2.37	−3.24	0.71	0	9	16	11	4	se.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	..	..	..	4.91	+2.06	1.84	0	11	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	27	78.0	+ 1.3	104	29	55	25	34	5.87	+2.40	2.10	0	12	12	16	3	e.	Frank Hall
Unionville	Putnam	1,062	32	75.4	+ 0.4	102	5	52	7	38	4.21	+0.25	1.50	0	10	14	4	13	sw.	Geo. W. Davis
Warrenton	Warren	816	43	78.6	+ 2.2	104	10	56	3	39	5.48	+2.30	1.40	0	8	12	13	6	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	76.0	+ 1.0	93	28	58	25	28	3.39	+0.15	0.83	0	13	11	6	14	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	77.2	+ 1.3	106	11	51	25	39	4.52	+0.93	2.16	0	10	14	9	8	sw.	
Southeast Lowlands.																				
Benton	Scott	340	0	....	......	..	..	..	..	..	6.56	......	1.86	0	16	..	..	..	......	E. R. Tirmenstein
Campbell	Dunklin	314	0	78.2	......	97	6	60	25†	30	12.71	......	3.32	0	16	10	14	7	s.	Jeff. King
Caruthersville††	Pemiscot	265	29	80 6	+ 0.9	99	6	64	25	25	5.98	+2.41	1.90	0	15	9	8	14	nw.	John T. Markey
Doniphan	Ripley	344	21	78.2	+ 0.8	103	6	56	26	34	9.30	+4.99	5.83	0	13	5	20	6	sw.	W.W. Martin
Jackson	Cape Girardeau	428	34	77.4	+ 1.2	97	11†	55	26	33	4.84	+1.23	0.73	0	13	7	4	20	s.	John G. Putz
Marble Hill	Bollinger	470	30	78.0	+ 1.0	98	6†	55	26	36	4.42	+0.92	0.95	0	11	11	16	4	w.	R.A. DeWitt
Morehouse	New Madrid	289	24	....	......	..	..	..	..	..	11.82	+8.01	3.69	0	15	14	15	2	sw.	John A. Spence
Parma	New Madrid	281	4	....	......	..	..	..	..	..	11.09	......	2.98	0	13	..	..	..	......	H. W. Kendall
Patton	Bollinger	605	16	....	......	..	..	..	..	..	4.05	−0.49	0.98	0	11	..	..	..	....	S. P. Presnell
Poplar Bluff	Butler	329	21	78.9	+ 0.9	101	6	57	25†	35	8.94	+4 67	3.50	0	10	17	9	5	s.	J. H. Wolpers
Sikeston	Scott	318	20	79.0	+ 1.4	96	7	59	25	30	12.70	+8.89	3.40	0	15	13	5	13	s.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	359	50	78.4	+ 0.6	94	11	64	25	23	12.02	+9.09	5.43	0	15	5	10	16	s.	U. S. Weather Bureau
Section means and	extremes	....	..	78.6	+ 1.0	103	6	55	26	36	8.70	+4.41	5.83	0	12	10	11	10	s.	
Ozark Plateau.																				
Arcadia	Iron	926	44	75.6	+ 1.1	99	6	53	26	32	7.22	+3 50	1.36	0	11	23	4	4	w.	Arcadia College
Aurora	Lawrence	1,370	..	76.3	− 0.5	98	6	54	25	28	6.05	+1.78	1.68	0	8	16	8	7	sw.	W T. Troughton
Birchtree (near	Shannon	1,000	30	77.2	+ 1.3	103	5	53	25	33	4.41	+0.02	1.30	0	9	18	7	6	se.	V. H. Kirkendall
Bolivar††	Polk	1,071	31	77.7	+ 0.7	103	10	56	25	35	3.73	+0.05	1.59	0	11	15	9	7	...	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	99	6†	..	..	..	8.67	+4.40	2.75	0	12	20	4	7	se.	H. E. Dean
Eldon	Miller	934	29	77.2[a]	+ 0.8	103	10	55	25	34	5.50	+1.52	2.17	0	11	4[a]	15[a]	11[a]	sw.	E. H. Shepherd
Farmington	St. Francois	918	14	78.0	+ 3.2	104	6	51	8	38	8.48	+5.10	1.96	0	13	13	13	5	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	77.8	+ 1.7	104	10	56	25†	38	4.87	+0.46	1.30	0	13	17	8	6	s.	A. C. Leach
Goodland	Iron	1,000	31	77.2	+ 2.7	106	6	50	25†	40	4.96	+0.93	1.55	0	12	11	11	9	s.	F. M Adams
Greenville	Wayne	381	3	75.9	......	97	6	51	25	37	5.46	......	1.28	0	15	13	8	10	s.	Wm. P. Owens
Hailey††	Barry	1,350	0	....	......	..	..	..	..	..	6.82	......	1.94	0	6	20	5	6	w.	A. W. Madison
Hollister	Taney	735	38	78.6	+ 0.7	105	6†	55	8	43	13.55	+9.58	4.50	0	8	19	4	8	s	Mrs. W. P. Chapman
Koshkonong	Oregon	958	24	78.1	+ 0.4	100	6	56	26	31	7.01	+2.56	3.75	0	12	16	8	7	n.	R. M. Hitt
Lebanon	Laclede	1,265	37	76.0	− 0.3	104	10	51	25	40	7.91	+4.38	2.05	0	9	18	2	11	e.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	74.8	− 2.4	98	9	56	25	28	5.96	+1.79	2.91	0	8	18	6	7	sw.	C. S. Crow
Mountain Grove(near)	Wright	1,463	24	77.6	+ 2.5	103	6	53	25	31	4 04	−0.36	1.13	0	9	16	9	6	sw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	77.1	+ 0.2	100	6†	50	25	44	9.68	+5.59	2.40	0	10	22	7	2	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	77.7	+ 1.9	103	10	56	25†	34	5.78	+1.70	1.73	0	11	17	7	7	w.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	77.4	+ 1.8	100	6	52	25	32	9.77	+5.78	2.52	0	10	18	7	6	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,612	19	75.8	+ 0.8	100	6	50	25	41	5.09	+1.25	1.00	0	12	17	10	4	sw.	Ira H. Hailey
Springfield	Greene	1,350	37	76.8	+ 1.1	98	6	58	25	27	6.63	+2.32	1.96	0	12	18	9	4	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	77.0	+ 1.0	106	6	50	25†	44	6.89	+2.91	4.50	0	11	17	8	6	sw.	
Southwest Plain.																				
Amoret	Bates	831	18	77.6	+ 1.2	106	9	53	25	43	4.86	+0.85	1.27	0	8	21	8	2	s.	Andrew Rood
Appleton City	St. Clair	853	31	78.2[c]	+ 0.4	103	9	57	25	39	6.96	+3.22	1.45	0	10	16	11	4	sw.	W. G Bigelow
Clinton	Henry	765	32	79.2	+ 2.4	104	9†	60	24†	36	6.98	+3.62	1.90	0	13	16	12	3	ne.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	78.0	+ 2.2	106	9	58	25†	36	2.90	−1.25	0.87	0	9	9	0	22	s.	John H. Patterson
Lamar	Barton	980	38	78.4	+ 0.9	102	6	56	25	34	7.38	+3.20	3.96	0	8	17	9	5	sw.	Jesse A. Mann
Lamonte	Pettis	867	24	78.5	+ 1.8	104	9†	54	25	35	6.63	+2.91	2.63	0	10	14	10	7	sw.	J. E. Wheeler
Marshall	Saline	779	36	78.8[c]	+ 3.2	103	9†	55	26	36	5.59	+1.93	2.75	0	9	15[d]	7[d]	5[d]	ne.	Dr W. H. Black
Nevada	Vernon	862	32	78.4	+ 1.5	103	9	55	25	38	4.55	+1 04	1.20	0	7	17	6	8	sw.	George A. Kaupp
Warrensburg	Johnson	878	38	78.8	+ 1.8	103	9†	57	25	30	5.86	+2.27	2.65	0	10	20	6	5	sw.	L. B. Johnston
Warsaw	Benton	687	25	78 2	+ 0.8	104	10	54	25	31	11.67	+7.38	2.87	0	8	18	6	7	w.	Everett Martin
Section means and	extremes	.....	..	78.4	+ 1.6	106	9	53	25	43	6.34	+2.52	3.96	0	9	16	8	7	sw.	
Northwest Plateau.																				
Bethany	Harrison	916	33	77.6[f]	+ 2.7	104	9	52	25	44	2.18	−1 70	1.11	0	7	11[f]	10[f]	4[f]	se.	M. H. Moulton
Chillicothe	Livingston	779	16	77.1	+ 1.0	103	9	55	25	37	4.21	−0.42	1.75	0	9	15	13	3	ne.	Wm. J. Olenhouse
Conception	Nodaway	980	36	78.0	+ 3.4	106	9	58	24	36	3.97	+0.49	1.18	0	8	9	19	3	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	77.0[b]	......	105	9	52	25	36	2.92	−0.92	0.78	0	7	26[a]	1[a]	3[a]	s.	Fred L. Stiff
Grant City	Worth	1,134	21	76.2	+ 1.3	102	9	57	24	30	3.23	−0.40	1.43	0	8	16	14	1	se.	W. P. Spillman
Kansas City	Jackson	963	36	79.0	+ 2.4	103	9	63	24	30	3.87	−0.88	2.24	0	9	11	16	4	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	75.6	− 0.1	105	9	54	24	43	2.08	−1.83	1.04	0	4	16	6	9	se.	Linn Terry
King City	Gentry	1,095	0	....	......	..	..	..	..	..	3.41	......	1.40	0	6	..	..	..	..	D. B. Oliver
Lexington	Lafayette	688	40	77.2	+ 1.2	104	9	59	24†	36	3.58	+0.35	1.30	0	7	13	15	3	s.	Edwin G Loomis
Liberty	Clay	859	35	78.2	+ 1.2	105	10	55	25	39	7.01	+3.08	2.42	0	9	21	6	4	e.	Doran H. Coffman
Maryville	Nodaway	1,169	35	77.0	+ 3.4	103	9	55	24†	37	3.25	−0.61	1.07	0	4	18	2	11	s.	J. R. Brink
Oregon	Holt	1,048	69	79.3	+ 4.3	106	9	51	24	36	2.97	−1.00	0 86	0	8	25	4	2	sw.	Mina Wright
St. Joseph	Buchanan	967	17	78.4	+ 1 5	106	9	60	24	30	4 60	+1.34	1.37	0	7	11	19	1	se.	U. S. Weather Bureau
Tarkio	Atchison	916	22	76.6	+ 1.0	100	9†	51	20	40	3.95	+0.08	1.23	0	10	10	14	7	ne.	Albert Volker
Trenton	Grundy	822	29	76.3	+ 1.1	97	9	58	24	27	2.04	−1.58	0.63	0	12	20	11	0	s.	W. H. Estes
Section means and	extremes	.....	..	77.4	+ 1.9	106	9	51	20†	44	3.55	−0 29	2.42	0	8	16	11	4	s.	
State means and	extremes	.....	..	77.5	+ 1.5	106	6†	50	25	44	5.63	+1.95	5.83	0	10	15	9	7	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b], represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5. ‡ Indicates plus.

Daily Precipitation for August, 1926.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	.25	....	....	....	....	....	....	....	....	....	....	.22	....	.60	....	T.	.86	....	.10	.30	....	....	....	1.05	....	....	....	....	....	.10	.56	4.04
Brunswick‖	Grand	....	....	....	....	....	....	....	....	....	....	....	....	....	.57	....	.30	....	....	....	1.42	....	....	.11	.20	....	....	....	....	....	.10	.52	3.32
Clifton Hill	Chariton	....	....	....	....	....	....	....	....	....	.01	T.	.02	....	.30	....	1.14	....	....	.50	.70	....	....	.21	....	....	....	....	....	T.	.08	.87	4.03
Columbia***	Missouri	T.	T.	....	....	....	....	....	....	T.	....	T.	.41	.36	.05	....	.78	.01	.06	1.67	.17	....	....	1.00	....	....	....	....	....	.01	.28	.27	5.07
Downing	Mississippi	.08	.11	....	....	....	....	....	....	....	.02	.25	.95	....	.93	....	.07	....	....	....	T.	....	....	.04	....	....	....	....	....	.24	....	.16	2.85
Fayette‖	Missouri	....	....	....	....	....	....	....	....	....	....	....	.34	....	.60	....	.71	....	....	1.03	....	....	....	.60	....	....	....	....	....	....	.88	....	4.16
Fulton	do	....	....	....	....	....	....	....	....	....	....	....	T.	T.	.75	....	....	1.30	.05	.08	.85	....	....	....	.71	....	....	....	....	....	.40	.11	4.25
Gorin	Mississippi	.14	.05	....	....	....	....	....	....	....	....	....	.61	.02	.96	....	.07	.65	....	....	.14	....	....	.09	....	....	....	....	....	.02	....	.06	2.81
Hannibal***	do	T.	.03	....	....	....	.01	....	T.	T.	T.	T.	T.	.38	.05	....	1.30	....	....	.85	.04	....	....	1.26	....	....	....	....	....	1.27	....	1.12	6.31
Hermann‖	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	.01	.25	....	T.	.14	....	.01	.32	....	....	....	.70	....	....	....	....	....	.72	.01	2.16
Jefferson City‖	do	.12	....	.03	....	....	....	....	....	....	....	....	....	.85	....	.33	....	.60	....	.13	1.28	....	....	1.10	....	....	....	....	....	....	.08	....	4.52
Kirksville	Mississippi	1.20	....	....	....	....	....	....	....	....	....	....	1.07	1.90	.80	....	....	....	....	....	.15	.15	....	....	....	....	....	....	....	....	....	.57	5.84
Louisiana	do	.02	.03	....	....	....	T.	....	....	.12	....	....	.01	.01	.07	....	2.05	....	....	1.65	....	....	....	1.77	.07	....	....	....	....	.92	....	1.62	8.34
Macon‖	Chariton	.57	....	....	....	....	....	....	....	....	....	....	.21	....	1.75	....	.30	.07	....	....	.80	....	....	.09	....	....	....	....	....	....	....	.85	4.64
Mexico‖	Mississippi	.56	....	....	....	....	....	....	....	....	....	....	.09	....	.56	....	.20	2.16	.02	....	.55	....	....	....	.78	....	....	....	....	....	.16	.40	5.48
Milan‖	Grand	.20	....	....	....	....	.18	....	....	.08	....	.07	....	....	1.75	....	....	....	....	.12	....	....	....	.10	....	....	T.	....	....	....	....	.35	2.85
Pacific‖	Meramec	....	.15	....	....	....	....	....	....	....	....	....	....	.42	....	....	....	.28	.09	.39	.32	.06	....	....	1.48	....	....	....	....	....	2.22	....	5.41
St. Catharine (near)	Grand	....	....	....	....	....	....	....	....	....	....	....	....	....	2.00	....	.05	....	....	.43	....	....	....	.26	....	....	....	....	....	.01	....	1.11	3.86
St. Charles	Missouri	....	....	....	....	....	T.	....	....	....	....	....	.15	....	.25	....	.25	T.	T.	.40	.89	....	....	.78	.01	....	....	....	....	.53	.11	.82	4.19
St. Louis (1)***	Mississippi	T	....	....	....	....	T.	....	....	.01	....	....	.12	T.	.02	....	.20	.01	T.	.35	.25	....	....	.58	....	....	....	....	....	.29	T.	T.	1.83
St. Louis (2)*	do	T.	....	....	....	....	....	....	....	T.	....	....	.13	T.	.08	....	.14	.08	T.	.17	.33	....	....	.71	....	....	....	....	....	.56	T.	.17	2.37
Shelbina‖	do	.03	.02	....	....	....	....	....	....	....	.47	....	.02	....	1.84	....	.62	.56	....	....	.66	....	....	.06	.42	....	....	....	....	....	....	.21	4.91
Steffenville	do	1.60	.03	....	....	....	.08	....	T.	....	.05	....	....	.36	.50	....	.28	....	....	.05	.20	....	....	.40	....	....	....	....	....	2.10	....	.22	5.87
Union‖	Meramec	.06	.02	....	....	....	.01	....	....	....	....	....	.03	.46	.05	....	....	.08	.03	.71	.51	....	....	....	1.00	....	....	....	....	....	.36	....	3.32
Unionville‖	Chariton	.06	....	....	....	....	T.	....	....	....	.15	.55	.10	....	1.20	....	....	....	....	T.	.15	.20	....	.10	....	....	....	....	....	1.50	....	.20	4.21
Warrenton	Mississippi	....	.05	....	....	....	....	....	....	T	....	....	....	T.	.06	....	.25	T.	....	....	1.04	....	....	1.40	....	....	....	....	....	1.25	.98	.45	5.48
Keokuk, Ia.***	do	.36	.01	....	....	....	....	....	.01	.52	T.	....	.02	.23	....	....	.14	.13	....	.07	.48	....	....	.42	....	....	....	....	....	.83	....	.17	3.39
Southeast Lowlands																																	
Benton	Mississippi	.28	1.12	.04	....	....	....	.50	....	....	....	.01	....	.80	.02	.43	.20	1.86	.26	.02	.20	....	....	.05	.67	....	....	....	....	.10	....	....	6.56
Campbell‖	St. Francis	.20	.60	.68	.99	....	....	.01	....	....	....	....	....	1.86	.53	....	.58	1.61	3.32	.08	.09	.05	....	....	1.82	.28	....	....	....	.01	....	....	12.71
Cape Girardeau‖	Mississippi	.12	....	.07	1.27	....	....	.48	....	....	....	....	....	.74	.02	....	.26	.78	.34	.04	.28	....	....	....	.60	....	....	....	....	....	.05	....	5.05
Caruthersville‖	do	.09	.22	.30	....	....	....	T.	....	....	....	....	....	1.90	.12	T.	1.20	.22	.43	.35	.38	.20	....	.40	.05	.10	....	....	....	T.	....	.02	5.98
Dexter‖	St. Francis	.36	.64	....	....	....	....	....	....	....	....	....	....	2.02	.55	T.	.10	2.45	.24	.05	.10	....	....	....	.78	.08	....	....	....	1.90	....	....	9.24
Doniphan	Black	1.08	....	....	....	....	....	....	....	....	....	....	T.	.09	.15	.34	.50	5.83	.18	.11	.22	....	....	.18	.32	....	....	....	....	.09	.21	T.	9.30
Jackson	Mississippi	.05	.24	....	.27	....	.47	....	....	....	....	....	....	.40	....	.57	.31	.73	....	....	.62	....	....	.72	.10	....	....	....	....	.05	....	.31	4.84
Marble Hill	Mississippi	....	.45	....	....	....	.10	....	....	....	....	....	....	.35	....	.20	....	.95	.12	....	.70	....	.30	.25	.10	....	....	....	....	.90	....	....	4.42
Morehouse	do	.42	.35	....	.11	....	....	.06	....	....	....	.30	....	2.18	....	.15	.54	3.69	1.22	.80	.28	....	....	.50	.68	....	....	....	....	.54	....	....	11.82
New Madrid‖	do	.38	1.25	.92	....	....	....	.02	....	....	....	....	....	1.10	.40	....	.61	1.60	.95	.10	.08	.05	....	....	.91	.10	....	....	....	....	.06	....	8.53
Parma	St. Francis	.21	.10	....	....	....	....	....	....	....	....	.50	2.00	2.87	....	.37	.37	2.98	.56	.18	.08	....	....	.56	....	....	....	....	....	....	....	.31	11.09
Patton	Mississippi	....	.14	....	....	....	.23	....	....	....	....	....	....	.83	.21	....	.36	.11	....	.41	.98	.06	....	.27	.45	....	....	T.	....	....	....	T.	4.05
Poplar Bluff‖	Black	....	....	....	....	....	.24	....	....	....	....	....	....	1.02	....	....	3.50	1.12	.04	.43	.10	....	....	1.97	.10	....	....	....	....	.42	....	....	8.94
Sikeston‖	Mississippi	.17	.14	1.23	2.06	....	....	.07	....	....	....	....	1.43	.35	....	....	.18	3.40	1.70	.24	29	....	....	....	.46	.38	....	....	....	....	.60	....	12.70
Cairo, Ill.***	do	.21	.70	T.	.53	....	.16	....	....	....	....	....	.63	1 41	01	.21	1.77	4.41	T.	T.	.25	....	....	.19	49	....	....	....	....	.88	....	.17	12.02
Ozark Plateau.																																	
Arcadia‖	St. Francis	....	.11	.05	....	....	....	T.	....	....	....	....	....	.53	.21	....	....	.97	.46	1.18	1.23	T.	.15	....	97	....	....	....	....	....	1 36	T.	7.22
Aurora	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	.62	....	....	.28	.36	1.68	.01	1.62	.01	....	1.47	T.	....	....	....	T.	....	....	....	6.05
Birchtree (near)	Black	.60	....	....	....	....	....	....	....	....	....	....	....	....	.40	.12	1.30	.60	.37	....	.42	....	....	.50	.10	....	....	....	....	....	....	....	4.41
Bolivar	Osage	.42	....	....	....	....	....	....	....	....	....	....	.05	.42	....	.45	.16	.31	.11	.03	1.59	....	....	.16	.03	....	....	....	....	....	....	....	3.73
Caplinger Mills	Osage	.68	....	....	....	....	....	....	....	....	....	.02	.15	.83	....	....	.76	.20	.56	....	.96	....	....	1.75	.25	....	....	....	.01	....	....	.15	6.32
Dean	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	.56	.38	T.	.72	2.75	.10	1.31	.92	.82	.02	.31	....	....	....	....	....	....	.58	.20	8.67
Eldon‖	Missouri	....	.02	....	....	....	....	....	....	....	....	....	.10	.82	....	....	.53	.06	.77	2.17	.02	....	....	.84	.03	....	....	....	....	....	.14	....	5.50
Farmington	St. Francis	.69	....	....	....	....	....	....	....	....	....	....	.11	1.96	....	....	.75	.13	.96	.83	.88	....	....	.30	.17	....	....	....	....	.48	.62	.60	8.48
Fredericktown‖	do	.87	....	.75	....	....	....	1.25	....	....	....	....	....	2.05	....	.15	....	.95	.26	....	.55	....	.30	.60	....	....	....	....	T.	....	.82	....	8.55
Galena‖	White	.08	....	....	....	....	....	....	....	....	....	....	....	.30	.12	....	....	1.92	....	.92	1.75	....	.63	....	.51	....	....	....	....	.33	....	.18	6.74
Gano	Meramec	1.30	....	....	....	....	....	....	....	....	....	....	.63	.25	.15	....	.30	.06	.18	.16	.73	....	....	....	.31	....	....	....	....	.33	.32	.15	4.87
Goodland	Black	....	....	.20	....	....	....	....	....	....	....	....	.37	....	.35	....	.15	.10	.30	....	1.55	....	....	.24	.15	....	....	....	....	.45	1.00	.10	4.96
Greenville	St. Francis	.20	.24	....	....	....	....	.29	....	....	....	....	....	.16	.07	.16	1.28	1.09	.02	.11	.52	....	....	.67	.11	....	....	....	....	.25	....	.29	5.46
Hailey	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1 20	1.00	1.20	....	1.32	1.94	....	....	....	....	....	....	....	....	.16	....	6.82
Hollister	do	....	....	....	....	....	....	....	....	....	....	....	.40	....	....	....	1.50	4.50	1.10	.85	1.50	1.40	2.30	....	....	....	....	....	....	....	....	....	13.55
Jerome‖	Gasconade	.98	.12	T.	....	....	....	....	....	....	....	....	....	2.35	.13	....	....	.67	.11	.60	.85	....	....	....	.84	....	....	....	....	....	....	.10	6.75
Koshkonong	Black	.75	....	....	....	....	....	....	....	....	....	....	....	....	....	.55	.35	3.75	.20	.10	.20	.30	....	.38	.20	....	....	....	.14	....	....	.09	7.01
Lebanon‖	Osage	....	.50	....	....	....	....	....	....	....	....	....	....	.51	2.00	....	.05	1.50	.05	.75	2 05	....	....	....	.50	....	....	....	....	....	....	....	7.91
Lockwood	do	.45	....	....	....	....	....	....	....	....	....	....	T.	.36	....	....	.73	.25	.30	.11	2.91	....	....	.85	....	....	....	....	....	....	....	T.	5.96
Mountain Grove‖	White	.04	05	....	....	....	....	....	....	....	....	....	....	1.13	.06	....	....	1.00	.69	.12	.80	T.	....	....	.15	....	....	....	....	....	....	....	4.04
Neosho	Neosho	.60	....	....	....	....	....	....	....	....	....	T.	....	T.	T.	....	.39	.84	1.78	.73	.62	2.40	T.	1.26	....	....	....	....	....	....	.45	.61	9.68
Owensville‖	Gasconade	....	....	....	....	....	....	....	....	....	....	....	....	.65	....	....	....	.30	.10	.30	1.68	....	....	....	.85	....	....	....	....	....	....	....	3.88
Rolla‖	Meramec	1.20	....	....	....	....	....	....	....	....	....	....	1.73	.12	....	....	.56	.09	.47	.74	.03	....	....	.36	....	....	....	....	....	.42	....	.06	5.78
Seligman	Neosho	.02	....	....	....	....	....	....	....	....	....	....	....	T.	T.	....	.96	2.52	1.09	.18	1.49	1.42	....	1.69	T.	....	....	....	....	....	.02	.38	9.77
Seymour (near)	White	.24	T.	....	....	....	....	....	....	....	....	T.	.14	.11	.10	....	.97	.71	.80	.14	1.00	.23	....	T.	.49	....	....	....	....	....	....	.16	5.09
Springfield***	do	.35	T.	....	....	....	....	....	....	....	....	.05	.02	.71	....	.01	.97	.44	.94	.14	1.91	....	....	.71	....	....	....	....	T.	....	.38	....	6.63
Steelville‖	Meramec	.03	....	....	....	....	....	....	....	....	....	....	....	.16	.22	....	T.	.45	.12	.18	.84	....	....	....	.54	....	....	....	....	.06	.80	....	3.40
Stover‖	Missouri	.19	....	....	....	....	....	....	....	....	....	....	.17	.15	.78	....	....	1.10	.35	....	1.29	....	....	....	1.55	....	....	....	....	....	....	1.53	7.11
Tuscumbia‖	Osage	.11	.26	....	....	....	....	....	....	....	....	....	....	.22	.78	....	....	.41	....	.35	2.03	....	....	....	.77	....	....	....	....	....	....	.09	5.02
Willow Sprgs.‖ (near)	White	.46	....	....	....	....	....	....	....	....	....	....	T.	.07	.12	....	....	1.18	1.94	.19	.85	....	....	....	.12	....	....	....	....	....	.08	....	5.01
Southwest Plain.																																	
Amoret	Osage	....	....	....	....	....	....	....	....	....	....	....	.90	1.27	....	.19	.25	....	.90	....	.67	....	....	.63	....	....	....	....	....	....	.05	....	4.86
Appleton City	do	.57	....	....	....	....	....	....	....	....	....	....	.45	.60	....	.80	1.45	....	1.30	....	.28	....	....	.93	....	....	....	....	....	....	.03	.55	6.96
Clinton	do	.12	....	....	....	....	....	....	....	....	....	....	1.90	.47	.12	.12	.80	.35	.35	.32	.50	....	....	1.40	....	....	....	....	....	....	.25	.28	6.98
Concordia‖	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	.84	....	.70	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.43	2.97
Harrisonville‖	Osage	.28	....	....	....	....	....	....	....	....	....	....	....	.14	.15	....	.20	.10	....	.29	.03	....	....	....	.87	....	....	....	....	....	....	.84	2.90
Joplin*	Neosho	T.	....	....	....	....	....	....	....	....	....	....	.29	.47	....	.29	.05	2.50	.89	.24	.63	1.35	....	1.02	....	....	....	....	....	....	.08	....	7.81
Lamar‖	do	....	T.	....	....	....	....	....	....	....	....	....	....	.50	.98	....	....	.64	.08	.60	3.96	....	....	....	.56	....	....	....	....	....	....	.06	7.38
Lamonte	Missouri	.05	....	....	....	....	....	....	....	....	....	....	....	.12	.70	....	2.63	.03	.10	.25	....	....	....	.90	....	....	....	....	....	.04	....	1.81	6.63
Marshall	do	.02	....	....	....	....	....	....	....	....	....	T.	.35	....	.35	T.	2.75	....	T.	02	.08	....	....	.60	....	....	....	....	....	....	.70	.72	5.59
Nevada	Osage	....	....	....	....	....	....	....	....	....	....	....	.25	.43	....	T.	.60	T.	.87	....	1.20	....	....	1.01	....	....	....	....	....	....	....	.19	4.55
Osceola‖	do	....	.26	....	....	....	....	....	....	....	....	....	....	.86	.25	....	.12	1.29	....	4.40	.70	....	....	....	1.67	....	....	....	....	....	....	....	9 55
Warrensburg	Missouri	T.	....	....	....	....	T.	....	....	....	T.	....	.05	.30	2.65	.09	1.37	T.	.22	.03	.31	....	....	.59	....	....	....	....	....	....	T.	.25	5.86
Warsaw‖	Osage	1.63	T.	....	....	....	....	....	....	....	....	....	2.87	.46	....	....	1.45	T.	.44	....	1.25	....	....	1.65	....	....	....	....	....	....	....	1.92	11.67
Waverly‖	Missouri	T.	....	....	....	....	T.	....	....	....	....	....	....	....	.83	....	.07	.10	....	....	.70	....	....	.49	.86	....	....	....	....	....	.10	.59	3.74
Northwest Plateau.																																	
Albany‖	Grand	....	....	....	....	....	....	....	....	....	T.	....	.55	.77	....	....	....	....	.50	....	....	....	.55	.04	....	....	....	....	....	....	....	.38	2.79
Bethany	do	....	....	....	....	....	....	....	....	....	....	.30	.15	....	.02	....	....	.20	....	....	....	....	....	.02	....	....	....	....	....	.38	....	1.11	2.18
Chillicothe‖	do	.14	....	T.	....	....	T.	....	....	T.	....	....	....	....	1.75	....	.02	....	.28	....	.73	....	.45	.25	.03	....	....	....	....	....	T.	.59	4.24
Conception	Missouri	....	....	....	....	T.	....	....	....	....	T.	.46	.41	....	....	....	....	.16	....	T.	....	....	.21	.42	....	....	....	....	....	1.18	.62	.51	3.97
Edgerton	do	....	....	....	....	T.	....	....	....	....	....	....	T.	T.	....	....	T.	T.	....	.78	.48	....	....	.66	....	....	....	....	.11	.13	.11	.65	2.92
Gallatin‖	Grand	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	1.12	....	.30	....	....	.60	....	....	....	....	....	....	T.	1.00	3.02
Grant City	do	....	....	....	....	....	.12	....	....	....	....	.87	.04	.15	....	....	....	.50	....	....	....	....	1.30	.13	....	....	....	....	....	....	T.	.12	3.23
Kansas City***	Missouri	T.	....	....	....	....	T.	....	....	....	....	T.	T.	T.	....	.02	.52	T.	.01	.62	....	....	.02	.29	....	....	....	....	.09	T.	.53	1.77	3.87
Kidder‖	Grand	....	....	....	....	....	T.	....	....	....	....	....	T.	....	T.	....	....	....	....	....	.65	....	....	.26	.13	....	....	....	....	....	....	1.04	2.08
King City	Missouri	....	....	....	....	....	....	....	....	....	....	.32	1.33	....	....	....	....	....	....	.08	....	....	....	....	....	....	....	....	.16	....	.12	1.40	3 41
Lexington‖	do	.61	....	....	....	....	....	....	....	....	....	....	....	....	1.30	....	....	.03	....	....	.22	....	....	.32	.36	....	....	....	....	....	....	.74	3.58
Liberty‖	do	.78	....	....	....	....	....	....	....	....	....	....	.97	....	.47	....	....	....	.21	....	.26	....	....	.94	....	....	....	....	....	.29	.67	2.42	7.01
Maryville‖	do	T.	T.	....	....	....	....	....	....	....	....	1.07	.76	....	....	....	....	....	....	....	....	....	.77	....	....	....	....	....	....	....	....	.65	3.25
Oregon	do	....	....	....	....	....	....	....	....	....	....	.56	.36	.09	....	....	....	.21	....	.35	....	....	....	.16	....	....	....	....	....	....	.38	.86	2.97
St. Joseph***	do	T.	....	....	....	T.	T.	....	....	....	T.	.62	T.	T.	T.	....	T.	....	....	1.37	T.	....	.02	1.13	....	....	....	....	.22	....	.46	.78	4.60
Tarkio	do	....	....	....	....	....	....	.03	....	....	....	1 23	.07	....	....	....	.10	....	....	.20	.16	....	.79	.05	....	....	....	....	....	....	.47	.85	3.95
Trenton	Grand	.08	....	....	....	T.	....	....	....	.09	....	.06	.04	.63	....	....	T.	.02	....	.24	....	....	.14	.23	....	....	....	....	....	.04	.27	.20	2.04

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for August, 1926.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	81	79	88	94	99	94	86	87	101	98	98	94	90	86	81	83	88	83	90	90	95	92	86	82	90	92	94	94	94	90	81	89.7
	Minimum	69	65	64	67	69	77	61	60	74	74	72	72	69	69	67	69	67	66	67	68	67	64	69	60	56	60	61	69	72	64	67	66.9
Columbia	Maximum	75	74	83	92	98	90	83	85	98	101	98	92	81	82	85	75	78	83	87	84	89	91	79	78	82	85	91	91	91	86	82	86.1
	Minimum	67	65	64	66	72	65	60	61	72	75	72	70	67	67	65	69	68	65	68	68	66	64	66	59	55	60	64	69	73	68	67	66.4
Fayette §§	Maximum	78	76	86	94	99	91	85	88	100	102	100	96	87	87	86	80	84	85	90	87	94	93	81	82	82	88	94	94	95	90	84	89.0
	Minimum	67	64	62	61	63	65	57	58	61	70	68	68	66	65	61	62	66	61	62	67	65	58	65	59	51	52	55	67	59	66	65	62.5
Hannibal	Maximum	72	75	84	91	97	85	80	82	94	98	98	92	88	80	85	79	81	83	87	86	92	92	77	78	84	86	90	91	94	85	83	86.1
	Minimum	66	65	66	68	73	71	62	63	70	77	72	74	69	68	68	69	68	68	65	66	68	62	68	62	58	62	67	68	69	68	70	67.4
Jefferson City §§	Maximum	80	72	85	93	100	91	93	89	100	104	100	96	80	88	89	75	77	82	90	89	90	92	80	78	85	87	92	93	92	87	89	88.3
	Minimum	68	66	65	66	70	76	63	65	63	70	72	72	68	68	66	67	67	65	65	66	66	65	68	64	59	60	62	65	73	69	69	66.7
Kirksville	Maximum	77	80	85	88	93	90	88	83	96	96	92	90	87	86	84	80	85	81	85	85	91	90	85	86	85	87	93	91	91	83	80	86.9
	Minimum	65	64	63	66	70	68	58	57	67	67	65	67	65	67	66	69	67	63	65	65	64	64	65	56	58	57	59	70	70	65	66	64.5
Louisiana	Maximum	76	76	87	92	95	86	88	86	92	101	100	99	88	84	86	83	..	84	88	..	..	..	94	87	87	90	92	97	96	88	89	^{d}89.3
	Minimum	68	65	63	64	70	58	74	56	65	74	66	72	70	68	64	68	..	66	70	..	..	..	60	65	53	57	62	64	72	66	69	^{d}65.5
Macon §§	Maximum	72	77	87	94	96	87	82	86	98	94	96	93	86	91	85	80	87	88	88	85	93	92	78	81	86	89	93	94	94	94	79	87.9
	Minimum	66	64	62	65	69	73	57	59	68	71	71	69	68	56	66	65	69	63	66	66	62	64	67	57	55	59	62	66	70	65	65	64.7
Mexico §§	Maximum	73	75	83	94	98	87	83	86	96	102	98	92	86	84	88	84	79	83	89	86	91	94	79	78	85	88	93	94	93	86	87	87.5
	Minimum	68	64	63	65	69	74	57	59	65	68	68	70	69	65	66	56	66	65	67	66	66	60	73	60	55	58	62	63	70	66	67	64.8
St. Catharine (near)	Maximum	..	..	..	..	..	..	..	..	..	..	..	95	85	88	83	82	88	86	89	81	91	91	88	79	86	89	92	93	94	89	80	^{k}87.4
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Louis (1)	Maximum	83	81	85	92	98	98	83	86	90	100	100	93	87	87	90	86	79	83	87	86	91	92	86	81	82	87	92	92	89	87	86	88.4
	Minimum	70	68	68	74	77	75	66	64	68	72	77	72	71	72	73	72	72	70	70	68	74	75	69	67	64	67	68	73	70	70	71	70.5
Unionville	Maximum	75	90	93	94	102	94	86	85	100	98	95	90	91	86	85	84	90	85	90	91	95	94	88	84	92	94	100	95	95	86	85	87.5
	Minimum	65	60	60	62	66	72	52	60	70	70	62	68	65	65	62	62	66	60	62	64	62	63	66	54	60	60	62	68	66	62	65	63.3
Warrenton	Maximum	81	75	84	94	100	95	83	88	95	104	103	95	91	86	89	86	80	87	90	86	93	91	90	97	97	90	94	96	95	90	85	90.6
	Minimum	68	64	56	67	73	72	60	60	67	72	73	74	69	67	64	69	68	65	68	66	67	68	68	58	63	60	63	64	72	66	70	66.5
Southeast Lowlands.																																	
Campbell	Maximum	88	85	85	89	91	97	89	83	89	95	96	96	88	86	88	87	76	83	86	87	85	92	93	76	81	84	89	93	92	91	90	88.1
	Minimum	66	69	69	71	70	73	65	63	62	65	74	71	70	70	71	69	69	70	70	70	70	68	71	69	60	60	60	67	71	70	72	68.2
Caruthersville	Maximum	90	88	85	89	93	99	92	87	93	98	97	98	92	89	87	88	78	83	87	87	83	92	91	76	82	86	90	91	94	90	93	89.3
	Minimum	70	72	77	72	73	76	70	67	70	73	76	75	70	72	73	70	70	73	73	72	73	74	74	71	64	67	68	73	75	72	73	71.9
Doniphan	Maximum	88	85	87	91	95	103	98	83	85	98	97	96	87	87	89	89	76	84	82	89	85	93	93	78	80	84	89	91	91	89	91	88.8
	Minimum	65	70	71	70	70	76	64	64	61	62	71	71	70	71	70	70	69	68	69	67	71	69	69	68	57	56	59	66	72	69	72	67.6
Jackson	Maximum	89	85	87	90	92	95	83	86	89	96	97	97	86	88	89	88	75	85	89	85	93	90	94	77	81	87	91	92	93	89	91	88.7
	Minimum	64	62	68	68	69	73	61	60	58	63	72	72	67	70	69	69	68	70	68	65	69	70	68	67	58	55	58	64	67	68	69	66.1
Poplar Bluff	Maximum	90	90	89	95	96	101	92	87	92	100	96	98	87	88	90	90	74	86	85	93	89	98	95	79	87	88	93	95	95	93	95	91.2
	Minimum	67	69	69	70	69	70	62	60	60	61	70	70	69	70	69	68	68	69	70	66	69	67	69	67	57	57	58	65	70	68	71	66.6
Sikeston	Maximum	90	87	88	91	92	95	96	84	89	95	94	97	83	89	84	90	77	89	88	89	92	93	94	76	82	85	90	92	93	90	92	89.2
	Minimum	70	69	70	70	71	73	69	62	64	68	74	73	69	71	71	70	69	71	71	67	70	68	71	69	59	60	60	67	71	70	72	68.7
Cairo, Ill.	Maximum	87	81	85	89	90	92	83	83	88	93	94	92	84	88	85	85	74	85	86	85	88	90	92	76	80	83	88	89	90	87	88	86.5
	Minimum	70	70	72	72	75	69	69	64	68	71	77	71	70	71	74	70	70	72	72	69	73	72	72	69	64	65	66	72	69	71	72	70.4
Ozark Plateau.																																	
Arcadia §§	Maximum	88	79	85	87	93	99	86	83	88	95	98	98	84	89	87	82	72	80	83	87	90	88	85	78	79	84	88	88	84	84	89	86.5
	Minimum	68	67	67	66	67	70	62	55	57	62	70	72	69	70	68	67	68	68	68	64	65	69	68	67	54	53	56	60	64	64	65	64.8
Birchtree	Maximum	83	81	86	94	103	89	89	89	95	98	97	89	88	88	86	87	74	80	81	88	82	91	90	80	86	85	88	90	90	90	90	88.0
	Minimum	65	68	66	67	74	62	62	61	64	72	71	68	67	65	69	66	68	67	67	64	69	68	70	68	53	56	60	68	73	67	70	66.3
Eldon §§	Maximum	82	77	86	93	99	95	86	90	99	103	101	99	84	87	90	74	80	82	90	86	93	92	80	80	85	85	92	93	90	89	87	88.7
	Minimum	..	66	64	65	66	75	60	59	66	71	73	71	66	67	66	69	68	65	65	65	66	65	70	64	55	58	59	59	70	69	69	^{a}65.7
Farmington	Maximum	94	82	90	93	100	104	87	86	94	103	103	103	86	94	90	90	78	78	88	90	94	92	92	79	80	87	93	94	90	88	84	90.5
	Minimum	67	68	69	68	66	75	61	51	57	65	70	72	67	71	69	67	66	66	68	64	67	74	68	67	57	53	57	62	65	67	70	65.6
Hollister	Maximum	88	90	92	94	104	105	100	98	101	104	105	105	102	85	88	90	95	90	88	86	89	88	89	90	84	89	90	91	94	94	96	93.7
	Minimum	60	61	62	64	68	81	70	55	60	65	62	64	62	70	72	64	68	60	59	58	69	59	59	62	60	60	60	62	62	65	68	63.6
Koshkonong	Maximum	85	83	85	89	96	100	90	86	94	98	98	99	85	85	90	81	77	84	78	85	82	91	88	77	78	85	88	91	91	91	89	87.7
	Minimum	74	68	67	71	72	75	66	63	63	67	75	73	70	72	71	69	67	67	68	65	68	69	72	68	58	56	59	71	73	70	76	68.5
Lebanon §§	Maximum	85	75	82	95	101	99	88	96	100	104	101	100	89	85	89	76	78	85	89	85	94	93	85	77	80	87	90	91	91	92	90	89.4
	Minimum	65	66	63	62	63	69	57	55	61	64	64	70	67	65	64	65	66	64	63	62	62	66	66	64	51	51	56	56	67	65	65	62.7
Mountain Grove	Maximum	85	81	87	93	98	103	91	90	95	101	100	99	87	87	89	87	73	80	85	90	86	94	87	80	82	84	87	89	91	93	89	89.1
	Minimum	63	66	63	64	69	73	60	62	64	82	72	68	68	67	68	67	67	63	66	62	69	65	70	65	53	56	62	69	71	67	70	66.1
Neosho	Maximum	84	83	84	92	97	100	100	98	98	98	97	97	95	89	92	83	82	81	89	89	92	95	84	80	81	87	90	90	90	90	88	90.2
	Minimum	63	64	62	60	65	71	61	54	66	63	65	69	70	70	65	69	65	66	64	64	68	68	70	65	50	53	54	67	61	64	67	64.0
Rolla	Maximum	78	76	84	95	95	98	90	90	96	103	100	97	86	86	86	81	75	81	90	86	91	93	92	89	83	87	92	92	90	89	87	89.0
	Minimum	65	64	66	68	71	74	62	63	66	69	72	68	69	67	66	68	68	66	67	64	68	69	67	65	56	56	59	68	72	67	71	66.4
Springfield	Maximum	75	76	80	90	96	98	86	91	95	96	93	93	84	85	87	81	75	79	85	87	91	91	78	77	78	83	85	85	86	87	86	85.8
	Minimum	66	66	66	67	72	71	66	66	70	72	74	72	69	70	70	66	68	67	67	63	71	70	67	63	58	62	64	71	73	68	70	67.9
Southwest Plain.																																	
Amoret	Maximum	81	83	89	95	101	92	90	101	106	103	101	98	88	90	84	83	82	85	81	88	93	90	86	80	83	85	89	91	89	89	87	89.8
	Minimum	66	60	63	62	67	77	62	58	69	72	71	70	68	68	67	70	65	67	60	67	68	65	69	60	53	56	55	67	70	67	67	65.4
Appleton City	Maximum	81	80	86	94	101	98	92	100	103	102	101	98	88	88	85	85	..	..	..	85	93	93	84	79	84	86	90	90	90	89	87	^{c}90.4
	Minimum	69	65	63	66	70	75	61	75	64	76	73	61	68	59	58	60	..	..	..	64	64	67	68	62	57	58	61	69	70	69	70	^{c}65.9
Clinton	Maximum	82	83	88	96	102	95	92	98	104	104	100	97	87	88	86	75	84	89	90	89	94	93	88	82	87	88	93	92	92	92	88	90.9
	Minimum	68	64	64	66	70	75	62	62	74	74	73	70	69	67	67	64	67	64	64	76	70	69	68	60	68	65	60	69	70	69	68	67.6
Harrisonville §§	Maximum	82	84	85	95	101	92	90	96	106	103	99	95	88	88	78	80	83	82	88	93	94	95	80	82	87	90	94	93	94	90	86	90.1
	Minimum	67	61	63	65	68	71	63	62	70	74	71	73	67	68	67	68	66	65	63	61	67	67	69	59	58	58	58	62	69	70	66	65.8
Lamar §§	Maximum	82	81	87	96	101	102	90	101	101	101	99	98	87	89	90	84	83	85	88	88	95	92	76	79	83	87	91	91	90	92	88	90.2
	Minimum	66	68	63	64	67	73	62	63	67	72	71	72	70	70	69	72	69	69	66	64	66	66	71	63	56	58	59	61	70	68	70	66.6
Lamonte	Maximum	79	81	88	96	101	92	90	94	104	104	102	102	96	87	88	85	84	85	91	90	95	94	80	83	88	89	95	95	95	93	87	91.4
	Minimum	68	62	63	66	70	69	59	61	73	74	71	71	67	65	66	64	67	64	64	67	68	67	68	58	54	57	60	69	69	66	68	65.6
Marshall	Maximum	88	..	90	96	101	88	88	92	103	103	100	97	91	86	89	84	89	88	87	90	94	93	87	83	88	91	97	..	..	90	83	^{c}91.3
	Minimum	69	..	67	65	67	74	59	75	71	71	71	69	66	65	61	67	66	61	64	67	66	64	69	59	63	55	67	..	..	67	67	^{c}66.4
Nevada	Maximum	82	82	87	95	101	95	89	100	103	102	98	91	88	87	87	84	81	85	88	89	92	92	84	79	82	86	89	90	90	91	89	89.6
	Minimum	67	67	61	65	68	77	62	62	72	75	69	75	70	70	68	68	68	65	64	65	71	66	68	61	55	60	62	70	71	69	70	67.1
Warrensburg	Maximum	87	79	85	93	98	97	89	93	103	103	101	98	88	88	83	79	82	86	87	87	95	92	90	80	84	87	90	91	92	89	85	89.7
	Minimum	68	62	65	67	72	78	62	63	75	76	73	74	70	65	67	68	68	67	66	67	71	70	70	61	57	60	64	71	72	70	69	68.0
Warsaw	Maximum	83	79	87	95	100	95	88	94	103	104	100	98	88	86	87	83	83	84	90	89	93	92	85	80	87	89	92	91	90	91	88	90.1
	Minimum	67	66	62	65	70	75	62	60	68	68	69	74	68	67	64	69	69	67	64	65	69	68	74	65	54	57	58	62	69	68	69	66.2
Northwest Plateau.																																	
Chillicothe §§	Maximum	75	84	89	93	99	89	87	89	103	96	97	94	92	82	82	86	89	83	87	89	94	92	79	82	87	96	94	94	93	87	80	89.1
	Minimum	67	62	62	64	69	76	57	62	66	74	67	72	68	67	65	66	67	64	63	63	60	63	68	57	55	60	62	68	70	67	67	65.1
Grant City	Maximum	74	85	88	90	94	85	85	87	102	90	90	88	88	83	85	88	88	83	85	88	92	88	82	80	85	91	92	91	91	86	79	87.2
	Minimum	59	62	62	66	67	70	58	65	75	73	66	70	66	66	64	68	63	62	63	64	67	66	67	57	65	61	62	67	64	68	65	65.1
Kansas City	Maximum	76	80	84	94	100	88	82	93	103	98	97	94	91	82	80	82	85	78	82	91	93	94	79	79	88	93	98	92	90	81	84	88.2
	Minimum	67	63	68	70	77	74	65	66	80	79	73	77	73	67	69	72	68	69	66	66	72	73	68	63	64	65	68	72	74	69	68	69.8
Kidder §§	Maximum	74	84	85	91	99	88	89	88	105	90	95	91	94	88	85	88	87	84	89	88	92	91	81	80	86	92	95	92	92	88	81	88.8
	Minimum	65	59	60	63	61	71	55	60	62	72	61	66	66	64	66	62	64	60	59	60	60	63	66	54	55	59	60	62	65	65	64	62.3
Lexington §§	Maximum	76	80	84	92	96	89	85	90	104	97	97	96	92	85	77	83	84	81	84	89	90	90	83	80	87	90	95	91	92	87	81	88.0
	Minimum	68	61	63	65	69	78	60	61	74	74	71	71	68	67	67	70	66	64	65	66	65	67	69	59	59	61	59	70	70	68	68	66.5
Maryville	Maximum	77	85	89	92	95	88	86	90	103	92	90	90	90	90	87	87	87	83	87	89	95	91	85	84	89	96	98	92	94	85	78	89.2
	Minimum	65	60	61	65	65	67	67	65	77	71	66	68	67	64	64	67	65	63	65	62	58	66	66	55	55	62	64	66	70	67	67	64.8
Oregon	Maximum	81	89	92	95	98	89	89	94	106	96	97	89	92	87	88	93	93	88	90	89	96	93	87	87	91	98	101	95	95	91	89	92.2
	Minimum	66	61	64	67	70	72	60	61	80	73	62	68	63	64	68	68	67	65	64	63	63	70	68	51	59	63	74	70	73	70	67	66.4
St. Joseph	Maximum	80	86	88	93	98	87	86	93	106	92	96	87	93	84	88	86	89	82	86	87	94	92	83	82	88	93	97	91	91	88	81	89.3
	Minimum	68	63	62	67	68	70	62	65	81	75	68	71	70	65	68	70	68	65	64	64	64	71	67	60	61	66	68	69	72	70	69	67.5
Trenton	Maximum	78	82	86	86	92	88	85	86	97	88	90	94	86	78	81	80	83	83	81	84	86	85	82	85	84	86	89	90	91	92	85	85.9
	Minimum	66	65	63	67	71	78	62	60	71	76	68	71	72	68	67	65	66	67	65	65	62	68	64	58	62	64	64	71	68	65	68	66.7

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^{a}, ^{b}, ^{c}, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 11-11-26—550.

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VMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXX. COLUMBIA, MO., SEPTEMBER, 1926. No. 9.

GENERAL SUMMARY.

The weather of September, in Missouri, differed in some respects quite widely from the usual. The outstanding features were the persistent and heavy rainfall over all the State, save a few of the extreme southeastern counties, and quite a nipping frost over the northern counties on the 26th.

During the period of more than 50 years that Missouri has been quite well covered by rainfall reporting stations, there had been no higher September rainfall marked than 7.67 inches, but this September exceeded 8 inches, 8.79 inches, in fact, for the State as a whole. Thirty-five stations recorded more than 10 inches, the greatest monthly fall, 18.04 inches, occurring at Maryville, Nodaway County. This was not only the wettest September of record but it runs close to the wettest of all other months, being exceeded only by the records of one May, one June, and one July.

With soil already saturated by the August rains and most creeks and small rivers full, the September rains caused unprecedented floods for autumn. Coming at a time when the principal crops had matured, the damage and loss can scarcely be told.

The frost of the morning of the 26th resulted in little damage, and fortunately, there were only a few local windstorms.

TEMPERATURE.

The monthly mean for the State, as shown by the records of 67 stations, was 69.3°, or only 0.3° above the normal. The divisions known as the southwestern and northeastern plains were practically normal; the northwestern plateau was more than 1° cooler than normal, while the Ozarks and southeastern low lands were 1° and 3°, respectively, warmer than normal. From about the 14th to the 23d was the most steadily warm period of the month, although the highest temperatures occurred at some stations on the 2d and 8th. A decided drop in temperature occurred on the 26th, when freezing and near freezing values were recorded at the more northern stations, and light frost values at nearly all other stations. The minimum was 27°, at Unionville, Putnam County. Tender vegetation suffered somewhat, but overcast sky before early morning prevented any serious damage.

PRECIPITATION.

The average precipitation for the State, as shown by the records of 100 stations, was 8.79 inches, or more than 5 inches greater than the 56 years' average. It was not only the wettest September of record but was very nearly the record for all the months. It being exceeded only by the records of July, 1875, June, 1877, and May, 1896. The excess was marked in all sections, save the southeast which was less than one inch wetter than normal. Five stations in the north received more than 10 inches; fifteen stations in the northeast, three in the Ozarks, one in the southwest, and nine in the northwest recorded totals of 10 inches or more, 18.04 inches, at Maryville, Nodaway County, was the greatest. There were not many excessive amounts in any one day, however; 5.83 inches, at Hannibal, on the 3d-4th, 4.68 inches, at Neosho on the 4th, ond 4.40 inches at Maryville on the 15th, were the heaviest amounts reported.

In the northern half of the State rain fell on every day, except the 7th, 10th, 11th, 17th, 18th, and 19th. There were only four days, the 10th, 11th, 17th, and 18th, on which no rain fell for the State as a whole. Nearly all creeks and small rivers were out of banks, resulting in perhaps the worst September floods with damage and loss of crops known in recent history.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---On the 6th, 13th, 20th, and 30th.

Frost, light.---On the 26th.

Frost, heavy in the northern tier of counties.---On the 26th.

Halos, lunar.---On the 18th.

Halos, solar.---3d, 5th, 7th, 13th, 25th, and 26th.

Thunderstorms.---1st, 2d, 3d, 4th, 5th, 8th, 9th, 11th, 12th, 14th, 15th, 16th, 19th, 20th, 24th, 25th, and 30th.

SPECIAL NOTES.

A thunderstorm, accompanied by high wind, occurred at and in the vicinity of Cameron, in the northwest part of Clinton County, Mo., at about 11:30 p. m., September 14th. The wind made a roaring noise, it came up suddenly and terminated suddenly. There was excessive rainfall after the wind. Trees were broken off, buildings damaged, and the light service was suspended. Total damage estimated to be about $5,000.

"Flood takes Million Dollar Toll."---"Not in the history of northwestern Missouri has it ever had a flood in September until this year. September rains have caused flood waters to sweep across the bottoms (Grand River), leaving devastation in its wake, and causing crop losses of more than a million dollars. Thousands of acres of fine corn, stalks carrying big ears, practically ready to be gathered, were wiped out in a few hours. Bridges were taken out and train service on the Wabash was at a standstill for a week. The September 1926 flood has exacted the greatest toll of all of the county's high waters. (Gallatin North Missourian.)

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.00	91	81	179	48	4,685	6.5	25	nw.	15
Hannibal	30.02	91	..	...	..	5,337	7.4	30	sw.	1
Kansas City	29.99	88	73	214	57	6,608	9.2	31	n.	23
St. Joseph	29.98	89	76	203	54	5,524	7.7	34	nw.	14
St. Louis	30.02	88	74	170	46	7,879	10.9	37	sw.	23
Springfield	30 00	90	76	224	60	6,814	9.5	23	se.	7
Cairo, Ill	30.02	89	76	...	..	5,200	7.2	34	sw.	23
Keokuk, Iowa	30.03	86	78	169	45	4,430	6.0	29	sw	3

COMPARATIVE DATA FOR SEPTEMBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	65.2	−3.7	97	28	1.11	−2.56	......	0	4	....	....	....
1889	64.7	−4.2	94	31	4.66	+0.99	......	0	11	....	....	....
1890	63.7	−5.2	98	34	3.98	+0.31	......	0	9	....	....	....
1891	70.6	+1.7	104	30	0.63	−3.04	......	0	6	....	....	....
1892	67.8	−1.1	97	32	2.39	−1.26	3.00	0	4	19	6	5
1893	69.9	+1.0	107	26	3.92	+0.25	5.20	0	6	17	7	6
1894	68.5	−0.4	101	34	4.93	+1.26	3.07	0	5	13	11	6
1895	71.8	+2.9	104	25	2.45	−1.22	6.21	0	4	19	8	3
1896	65.0	−3.9	101	28	4.17	+0.50	4.40	0	10	11	10	9
1897	74.3	+5.4	105	27	0.74	−2.93	2.13	0	2	23	5	2
1898	70.9	+2.0	103	30	6.74	+3.07	6.10	0	9	15	9	6
1899	67.4	−1.5	108	16	2.04	−1.63	3.01	0	4	20	6	4
1900	71.1	+2.2	100	29	4.81	+1.14	3.79	0	10	13	10	7
1901	68.9	0.0	103	27	2.31	−1.36	2.80	0	6	18	8	4
1902	63.2	−5.7	95	30	4.78	+1.11	6.55	0	10	15	6	9
1903	66.4	−2.5	98	32	4.41	+0.74	6.77	0	8	17	6	7
1904	69.6	+0.7	96	34	3.85	+0.18	2.46	0	3	16	8	6
1905	69.6	+0.7	98	41	7.67	+4.00	7.90	0	10	15	6	9
1906	71.9	+3.0	98	36	4.15	+0.48	4.28	0	11	15	8	7
1907	68.9	0.0	101	31	1.93	−1.74	2.25	0	6	18	7	5
1908	71.6	+2.7	99	28	1.80	−1.87	2.68	0	4	18	8	4
1909	68.7	−0.2	105	28	4.62	+0.95	4.48	0	8	18	6	6
1910	69.5	+0.6	97	34	5.53	+1.91	4.63	0	10	14	6	10
1911	73.7	+4.6	105	39	7.13	+3.46	7.75	0	11	13	7	10
1912	68.6	−0.3	105	27	3.06	−0.61	3.61	0	9	17	5	8
1913	69.4	+0.5	109	27	4.63	+0.79	4.08	0	9	13	7	10
1914	69.6	+0.5	99	35	6.27	+2.52	9.22	0	9	15	8	7
1915	70.6	+1.5	98	34	5.25	+1.51	5.91	0	7	16	7	7
1916	67.8	−1.5	101	27	2.94	+0.86	2.80	0	6	19	7	4
1917	67.9	−1.2	101	33	2.78	−1.09	4.13	0	5	19	6	5
1918	62.3	−6.7	96	29	4.73	+0.77	6.61	0	7	17	6	7
1919	71.4	+2.7	104	38	3.29	−0.54	4.93	0	5	20	6	4
1920	70.0	+1.4	100	31	4.81	+0.92	4.10	0	9	17	7	6
1921	73.4	+4.7	104	34	7.03	+3.15	5.45	0	13	13	9	8
1922	71.7	+2.6	107	34	3.31	−0.57	5.36	0	5	21	5	4
1923	68.7	−0.3	98	33	4.59	+0.86	5.26	0	11	12	9	9
1924	64.0	−5.0	96	29	3.77	+0.04	3.72	0	8	14	8	8
1925	74.6	+5.6	110	45	6.46	+2.73	8.92	0	10	14	6	10
1926	69.3	+0.3	97	27	8.79	+5.06	5.83	0	13	12	7	11

Climatological Data for September, 1926.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	69.4	+ 2.7	92	17†	35	26	35	11.17	+6.78	2.20	0	15	9	5	16	se.	O. K. Benecke
Clifton Hill	Randolph	731	26	66.8	− 2.1	89	19	32	26	34	7.83	+2.97	1.88	0	17	8	4	18	.....	Dr. A. J. Bradsher
Columbia	Boone	748	35	68.5	+ 0.3	90	18	37	26	27	10.00	+7.15	1.89	0	16	9	9	12	s.	U. S. Weather Bureau
Downing	Schuyler	878	4	66.3	......	90	17†	30	26	34	14.13	+9.42	3.06	0	19	10	6	14	e.	E. E. St. Clair
Fayette	Howard	661	45	67.2	− 1.1	92	17	33	26	38	10.37	+5.54	2.57	0	10	..	..	..	.....	J. D. Settle
Fulton	Callaway	818	37	69.4^{a}	+ 0.5	92	4†	36	26	31	10.06	+5.67	1.45	0	16	9^{a}	11^{a}	9^{a}	.....	Chamber of Commerce
Gorin	Scotland	700	38	....	......	..	..	..	..	..	12.94	+8.65	2.80	0	15	9	4	17	sw.	J. W. Pulliam
Hannibal	Marion	534	33	67.7	0.0	90	17	38	26	26	13.17	+9.61	5.83	0	20	8	7	15	s.	U. S. Weather Bureau
Jefferson City	Cole	557	37	69.1	0.0	91	2†	38	26	29	9.71	+6.43	1.37	0	14	16	3	11	n.	Miss Emma Swift
Kirksville	Adair	969	36	65.1	− 0.9	88	18	31	26	33	9.72	+5.41	1.53	0	16	9	3	18	sw.	Prof. J. S. Stokes
Louisiana	Pike	469	31	69.2	+ 1.3	92	1	33	26†	30	14.36	‡10.41	3.02	0	21	10	5	15	e.	J. T. Farrell
Macon	Macon	875	26	66.1	− 2.2	92	18	31	26	35	13.12	+8.91	2.80	0	17	6	7	17	se.	W. C. Brown
Mexico	Audrain	800	36	68.2	− 0.4	93	18	33	26	34	11.89	+7.21	3.00	0	18	14	0	16	se.	Mrs. Abbie Snoddy
St. Catharine(near)	Linn	800	14	68.4	+ 0.6	88	18†	29	26	28	7.88	+3.78	2.07	0	13	13	3	14	sw.	
St. Charles	St. Charles	456	37	71.3	+ 3.4	93	16†	37	26	31	7.87	+4.59	1.94	0	13	7	9	14	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	70.9	+ 0.4	92	3	39	26	35	7.40	+4.49	1.97	0	18	10	6	14	sw.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	70.8	+ 0.6	91	3†	40	26	34	8.15	+3.51	1.53	0	18	11	5	14	se.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	..	..	..	11.05	+7.07	3.50	0	18	..	..	..	.....	J. C. Jewett
Steffenville	Lewis	650	27	68.5	− 0.6	95	17	31	26	30	10.27	+6.08	2.60	0	20	11	7	12	s.	Frank Hall
Unionville	Putnam	1,062	32	66.0	+ 1.2	88	1†	27	26	34	13.91	+9.30	3.00	0	17	7	6	17	n.	Geo. W. Davis
Warrenton	Warren	816	43	70.1	+ 1.3	94	18	35	26	30	10.70	+6.66	1.85	0	16	10	9	11	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	66.2	− 1.3	90	17	38	26	26	12.56	+8.59	3.25	0	16	6	9	15	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	68.3	+ 0.1	95	17	27	26	38	10.83	+6.74	5.83	0	16	10	6	14	s.	
Southeast Lowlands.																				
Benton	Scott	340	0	....	......	..	..	..	..	..	3.25	......	0.82	0	8	..	..	..	.....	E. R. Tirmenstein
Campbell	Dunklin	314	0	74.4	......	96	18	44	26	35	2.85	......	1.42	0	9	10	14	6	s.	Jeff. King
Caruthersville††	Pemiscot	265	29	77.5	+ 4.1	95	14	49	26	30	1.80	−1.30	0.56	0	7	16	6	8	s.	John T. Markey
Doniphan	Ripley	344	21	73.0	+ 2.2	91	2†	45	25†	36	6.40	+2.76	2.00	0	6	14	9	7	sw.	W.W. Martin
Jackson	Cape Girardeau	428	34	73.0	+ 3.1	95	17	41	26	37	4.23	+1.68	1.68	0	8	2	7	21	s.	John G. Putz
Marble Hill	Bollinger	470	30	72.9	+ 2.5	94	16†	42	26†	32	4.10	+0.47	0.85	0	9	16	9	5	s.	R.A. DeWitt
Morehouse	New Madrid	289	24	....	......	..	..	..	..	..	2.62	−0.24	0.89	0	6	15	8	7	sw.	John A. Spence
Parma	New Madrid	281	4	....	......	..	..	..	..	..	2.88	......	0.91	0	7	..	..	..	......	H. W. Kendall
Patton	Bollinger	605	16	....	......	..	..	..	..	..	3.65	+0.44	0 83	0	11	..	..	..	....	S. P. Presnell
Poplar Bluff	Butler	329	21	74.5	+ 3.2	96	16†	42	26	37	4.89	+1.31	1.75	0	8	18	8	4	s.	J. H. Wolpers
Sikeston	Scott	318	20	74.6	+ 4.0	96	17	44	26	37	2.23	−0.63	1.32	0	10	18	6	6	sw.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	359	50	74.4	+ 2.9	90	16	46	26	28	4.30	+1.83	1.60	0	9	9	9	12	s.	U. S. Weather Bureau
Section means and	extremes	....	..	73.8	+ 3.0	96	16†	41	26	37	3.76	+0.83	2.00	0	8	13	9	8	s.	
Ozark Plateau.																				
Arcadia	Iron	926	44	68.8	+ 1.2	89	8	39	26	35	6.75	+3.11	1.09	0	15	19	3	8	se.	Arcadia College
Aurora	Lawrence	1,370	..	70.2	− 0.5	86	2†	40	25†	24	10.23	+6.50	3.01	0	10	14	6	10	sw.	W. T. Troughton
Birchtree (near	Shannon	1,000	30	72.1	+ 2.6	91	2†	42	26	37	5.58	+1.99	1.03	0	9	18	3	9	se.	V. H. Kirkendall
Bolivar††	Polk	1,071	31	73.8	+ 4.2	92	2†	39	25	36	9.02	+4.92	1.80	0	10	20	5	5	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	90	9†	..	..	..	12.54	+8.92	3.38	0	11	7^{h}	5^{h}	10^{h}	se.	H. E. Dean
Eldon	Miller	934	29	68.5	− 0.8	92	3	41	25†	30	9.58	+5.78	1.93	0	14	1	17	12	sw.	E. H. Shepherd
Farmington	St. Francois	918	14	71.2	+ 1.9	94	16†	38	26	31	5.91	+2.69	1.40	0	12	11	10	9	w.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	70.8	+ 1.3	92	2	37	26	32	5.13	+0.87	1.32	0	10	17	4	9	s.	A. C. Leach
Goodland	Iron	1,000	31	70.6	+ 3.3	95	19	39	26	41	5.42	+1.69	1.31	0	11	15	4	11	s.	F. M Adams
Greenville	Wayne	381	3	70.0^{c}	......	90	8	43	26	35	4.79	......	0.86	0	9	14^{c}	4^{c}	9^{c}	s.	Wm. P. Owens
Hailey††	Barry	1,350	0	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	....	A. W. Madison
Hollister	Taney	735	38	71.9	+ 0.3	95	19	44	26†	39	8.50	+4.79	2.00	0	7	15	7	8	s.	Mrs. W. P. Chapman
Koshkonong	Oregon	958	24	73.0	+ 2.1	91	16	43	26	29	4.91	+1.42	1.59	0	7	15	7	8	n.	R. M. Hitt
Lebanon	Laclede	1,265	37	69.2	− 0.3	91	19	36	26	39	9.14	+5.05	1.75	0	12	16	3	11	s.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	68.3	− 3.0	84	2†	40	25	27	12.07	+8.07	2.78	0	10	15	3	12	sw.	C. S. Crow
Mountain Grove(near)	Wright	1,463	24	71.0	+ 2.6	92	19	40	26	32	9.38	+5.34	1.55	0	13	14	5	11	sw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	71.8	+ 1.5	93	20	40	25	33	12.46	+8.24	4.68	0	12	18	3	9	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	70.4	+ 2.4	92	2	37	26	29	5.73	+1.89	0.87	0	12	14	8	8	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	....	......	..	..	..	..	..	....	......	. ..	0	..	..	..	..		Floyd E. Fawver
Seymour (near)	Webster	1,642	19	70.4	+ 1.8	90	19	39	26	41	8.83	+4.25	2.71	0	11	15	6	9	sw.	Ira H. Hailey
Springfield	Greene	1,350	37	70.0	+ 1.1	90	19	40	25	36	8.33	+4.57	2.75	0	13	18	3	9	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	70.4	+ 1.0	95	19	36	26	41	7.98	+4.36	4.68	0	11	14	6	10	s	
Southwest Plain.																				
Amoret	Bates	831	18	69.4	+ 0.7	90	2†	38	26	27	7.73	+3.83	2.04	0	12	16	8	6	s.	Andrew Rood
Appleton City	St. Clair	853	31	69.8	− 0.5	91	19	40	25†	33	7.68	+4.01	1.46	0	14	10	12	8	ne.	W. G Bigelow
Clinton	Henry	765	32	70.8^{b}	+ 0.6	95	17	38	26	33	7.14	+3.32	1.70	0	10	13^{a}	6^{a}	10^{a}	se.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	66.9	− 1.4	91	2	37	25†	31	8.59	+4.23	1 37	0	15	12	6	12	e.	John H. Patterson
Lamar	Barton	980	38	70.6	0.0	93	20	42	25†	30	11.37	+7.13	4.00	0	11	14	6	10	se.	Jesse A. Mann
Lamonte	Pettis	867	24	69.5	− 0.6	93	2†	34	26	32	8.69	+4.19	1.95	0	18	6	12	12	se.	J. E. Wheeler
Marshall	Saline	779	36	69.0^{a}	+ 0.7	97	8	34	26	41	9.44	+4.56	2.14	0	17	8	8	14	ne.	Dr W. H. Black
Nevada	Vernon	862	32	70.0	+ 0.9	90	2†	40	25†	35	8.74	+4.58	1.95	0	12	12	7	11	sw.	George A. Kaupp
Warrensburg	Johnson	878	38	69.8	− 0.3	90	18†	37	26	36	7.97	+4.38	1.30	0	16	10	8	12	sw.	L B. Johnston
Warsaw	Benton	687	25	71.3	+ 1.3	92	2†	41	25†	29	7.46	+3.14	1.35	0	12	15	5	10	w.	Everett Martin
Section means and	extremes	.....	..	69.7	+ 0.1	97	8	34	26	41	8.48	+4.34	4.00	0	14	12	8	10	se.	
Northwest Plateau.																				
Bethany	Harrison	916	33	66.8	− 0.2	92	2	28	26	35	14.13	‡10 27	2.34	0	17	8	6	16	se.	M. H. Moulton
Chillicothe	Livingston	779	16	66.4	− 3.2	91	16†	31	26	30	11.59	+5.85	2.41	0	13	11	5	14	ne.	Wm. J. Olenhouse
Conception	Nodaway	980	36	66.2	− 1.0	90	16†	32	26	31	14.61	‡10.76	3.89	0	17	7	8	15	s.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	68.0	......	89	23	31	26	37	9.22	+5.94	1.35	0	17	13	1	16	e.	Fred L Stiff
Grant City	Worth	1,134	21	64.9	− 2.1	87	21	30	26	26	14.10	‡10.11	3.22	0	17	9	7	14	se.	W. P. Spillman
Kansas City	Jackson	963	36	68.0	− 0.9	91	23	38	25	31	6.33	+2.57	1.35	0	18	10	8	12	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	64.8	− 2.9	88	2†	32	26	30	13.89	+9.65	3.63	0	16	9	4	17	se.	Linn Terry
King City	Gentry	1,095	0	....	......	..	..	..	..	..	11.75	......	3.60	0	17	..	..	..	..	D. B. Oliver
Lexington	Lafayette	688	40	68.0	− 0.5	90	2†	34	26	30	8.92	+4.48	2.30	0	16	10	5	15	s.	Edwin G. Loomis
Liberty	Clay	859	35	68.8	− 0.4	92	2	37	27	30	8.72	+4.28	2.06	0	11	14	3	13	e.	Doran H. Coffman
Maryville	Nodaway	1,169	35	65.8	+ 0.4	89	21	31	26	30	18.04	‡13.83	4.40	0	17	11	2	17	s.	J. R. Brink
Oregon	Holt	1,048	69	68.2	+ 1.2	91	17†	33	25†	31	9.79	+6.05	1.90	0	18	10	8	12	se.	Mina Wright
St. Joseph	Buchanan	967	17	67.4	− 1.4	90	21	36	25	31	8.67	+3.76	2.52	0	18	9	11	10	se.	U. S. Weather Bureau
Tarkio	Atchison	916	22	65.0	− 1.6	90	21	30	26	31	13.26	+9 76	2.89	0	16	7	4	19	se.	Albert Volker
Trenton	Grundy	822	29	66.0	− 1.4	88	17†	34	26	25	12.04	+7.78	2.60	0	17	11	6	13	se.	W. H. Estes
Section means and	extremes	.....	..	66.7	− 1.1	92	2	28	26	37	11.67	+7.51	4.40	0	16	10	6	14	se.	
State means and	extremes	.....	..	69.3	+ 0.3	97	8	27	26	41	8.79	+5.06	5.83	0	13	12	7	11	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5. ‡ Indicates plus.

Daily Precipitation for September, 1926.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	.02	1.65	....	2.75	.59	.06	....	....	.30	....	....	.15	.10	....	.20	.15	....	....	....	.20	....	....	....	....	.35	....	.50	.90	.05	.55	....	8.52
Brunswick‖	Grand	.78	2.15	....	.76	....	.17	....	....	1.35	....	....	.68	.70	.10	.60	.06	....	....	....	2.20	....	....	....	....	.06	....	.38	.63	....	.55	....	11.17
Clifton Hill	Chariton	T	1.30	.06	1.88	.15	....	....	1.08	....	....	....	.45	....	.23	.18	.23	....	....	.16	.52	....	....	....	.06	....	.08	.81	.18	.30	.16	....	7.83
Columbia***	Missouri	....	1.67	.61	1.23	.22	....	....	.99	....	....	....	.36	....	T.	.01	T.	....	....	....	.56	....	.15	.07	T.	.67	.30	.93	.22	.16	1.85	....	10.00
Downing	Mississippi	.06	.22	2.80	.82	.37	....	....	3.06	.14	....	....	1.03	....	.76	1.32	.16	....	....	.40	.41	....	....	....	.67	.12	....	.45	.01	.12	1.21	....	14.13
Fayette‖‖	Missouri	....	....	....	2.57	....	....	....	2.43	....	....	....	.81	....	.37	.27	.33	....	....	....	.94	....	....	....	....	.25	....	....	1.28	....	1.12	....	10.37
Fulton	do	.20	1.30	.36	1.45	.87	.10	....	....	1.30	....	....	....	.40	....	.13	....	....	....	....	.51	....	....	.27	....	.95	T	.80	.95	.10	.37	....	10.06
Gorin	Mississippi	.05	....	1.72	2.57	.39	....	....	2.80	....	....	....	.73	....	1.31	.86	.05	....	....	1.26	....	....	....	....	.17	....	....	.41	.03	.37	.22	....	12.94
Hannibal***	do	....	.29	1.36	4.47	.30	....	....	2.46	....	....	....	.14	.01	.14	1.18	.01	....	....	.74	.04	....	....	.26	.02	.12	.12	.84	.09	.12	.46	....	13.17
Hermann‖	Missouri	1.14	.22	.86	.46	1.02	.06	....	....	2.30	....	....	....	1.02	.14	.02	....	....	....	....	1.20	....	....	.01	....	.60	....	.64	.90	.06	.40	....	11.05
Jefferson City‖	do	.85	....	.60	.35	1.25	.08	....	....	1.37	....	....	....	1.02	....	....	....	....	....	....	....	....	....	.23	.16	1.17	....	1.05	.90	.23	.45	....	9.71
Kirksville	Mississippi	....	.30	1.53	1.40	.43	....	....	1.17	.25	....	....	.58	....	.69	.73	.26	....	....	.20	.98	....	....	....	.10	....	....	.38	....	.10	.62	....	9.72
Louisiana	do	.04	.25	.65	3.02	.33	....	....	.28	1.48	....	....	.01	.07	.55	.62	....	....	....	.12	.02	....	.01	.45	.04	2.50	....	1.20	.15	.12	2.45	....	14.36
Macon ‖	Chariton	.36	1.25	....	2.80	.36	.12	....	....	1.63	....	....	.86	.04	.10	1.05	.85	....	....	.05	.76	....	....	....	....	....	....	.51	.56	.02	1.80	....	13.12
Mexico ‖	Mississippi	.15	1.40	.23	3.00	1.57	.05	....	....	2.00	....	....	....	.10	.05	.22	T.	....	....	....	.32	....	....	.10	.10	.70	....	.47	1.10	.02	.31	....	11.89
Milan ‖	Grand	.38	....	.42	2.23	....	....	....	.25	.85	....	....	.35	....	.55	3.00	1.00	.12	....	.62	....	....	....	....	....	....	.05	.17	.08	.30	.72	....	11.09
Pacific‖	Meramec	....	....	.55	.08	.94	....	....	....	1 02	....	....	....	.65	T.	2.08	T.	....	....	....	....	....	....	T.	.13	.66	.05	.33	.95	.10	.47	....	8.01
St. Catharine (near)	Grand	.01	2.07	1.66	.25	.28	....	....	.71	....	....	....	.69	....	.45	.45	....	....	....	.05	.07	....	....	....	T.	....	....	.49	....	.70	....	....	7.88
St. Charles	Missouri	....	.58	....	.06	.33	....	....	T.	1.44	....	....	T.	.45	.55	T.	....	....	....	.41	....	....	....	.10	T.	.86	.02	.60	.53	T.	1.94	....	7.87
St Louis (1)***	Mississippi	....	.20	....	.19	.61	....	....	.89	.15	....	....	.02	.24	.06	.08	....	....	....	T.	....	....	.02	.55	.57	.30	.03	.72	.38	.52	1.87	....	7.40
St. Louis (2)*	do	....	.21	....	.10	.62	....	....	1.41	.19	....	....	.01	.27	.07	.20	....	....	....	....	....	T.	.02	.75	.75	.34	.04	.72	.37	.55	1.53	....	8.15
Shelbina ‖|	do	.86	.76	.22	2.20	.39	.10	....	....	3.50	....	....	.53	.03	.01	.72	.17	....	....	....	.18	....	....	....	.13	.09	....	.37	.69	T.	.10	....	11.05
Steffenville	do	.10	.60	.85	2.60	.10	....	....	.35	1.20	....	....	.70	....	.60	.45	.15	....	....	.35	.50	....	....	.05	.10	.12	T.	.60	.20	.15	.50	....	10.27
Union‖	Meramec	.25	....	2.57	.04	.85	.04	....	....	.77	....	....	....	.65	.02	2.60	....	....	....	....	....	....	....	....	.13	.80	.07	.45	.91	.11	.99	....	11.25
Unionville ‖	Chariton	.05	.40	1.85	.74	.40	....	....	1.90	.90	....	....	.40	....	1.20	1.80	.12	....	....	.50	1.15	....	....	....	.70	....	....	.50	....	.10	1 20	....	13.91
Warrenton	Mississippi	....	.26	1.20	.94	.26	....	....	T.	1.77	....	....	T.	.56	.10	....	....	....	....	.12	.07	....	.09	.20	....	1.35	T.	1.02	.66	.25	1.85	....	10.70
Keokuk, Ia.***	do	.04	.17	1.49	2.43	.10	....	....	2.10	....	....	....	.32	.06	.58	.55	T.	....	....	2.93	....	....	....	T.	.12	T.	T.	.44	.02	.46	.75	....	12.56
Southeast Lowlands																																	
Benton	Mississippi	.55	....	....	....	.39	....	....	....	....	....	....	....	.14	....	....	....	....	....	....	....	....	....	.26	....	.82	....	....	.64	.44	.01	....	3.25
Campbell‖	St. Francis	.01	....	....	....	.36	.03	....	....	....	....	....	....	....	.13	....	....	....	....	....	....	....	....	....	.15	.17	.53	....	.05	1.42	....	....	2.85
Cape Girardeau‖	Mississippi	.31	....	....	....	.44	.35	....	....	.06	....	....	....	.03	....	....	....	....	....	....	....	....	....	.02	.22	.16	.22	....	.02	.60	.36	....	2.79
Caruthersville ‖	do	....	....	....	....	.10	.22	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	.10	.07	....	.49	....	....	.26	.56	....	....	1.80
Dexter‖	St. Francis	....	....	....	....	.23	....	....	....	....	....	....	....	T.	T.	....	....	....	....	....	....	....	....	.37	....	.90	.49	....	....	1.25	.53	....	3.77
Doniphan	Black	....	....	....	....	1.60	....	....	....	....	....	....	....	2.00	....	....	....	....	....	....	....	....	....	.55	....	65	....	....	1.25	.35	....	....	6.40
Jackson	Mississippi	1.68	....	....	....	.31	....	....	....	.13	....	....	....	.07	....	....	....	....	....	....	....	....	....	.12	....	.56	....	....	.66	.70	....	....	4.23
Marble Hill	Mississippi	.72	....	....	.20	.80	....	....	....	....	....	....	....	.23	....	....	....	....	....	....	....	....	....	.10	....	.85	.10	....	.70	.40	....	....	4.10
Morehouse	do	....	....	....	....	.08	....	....	....	....	....	....	....	.10	....	....	....	....	....	....	....	....	....	.31	....	.43	....	....	.81	.89	....	....	2.62
New Madrid‖	do	....	....	....	....	.40	.16	....	....	....	....	....	....	.03	.02	....	....	....	....	....	....	....	....	.02	.12	.02	.90	....	.01	.81	.38	....	2.87
Parma	St. Francis	....	....	....	.32	....	....	....	....	....	....	....	....	.14	....	....	....	....	....	....	....	.10	.12	.62	....	....	....	....	67	.91	....	....	2.88
Patton	Mississippi	.83	....	.46	....	.11	....	....	....	.41	....	....	....	.13	....	....	....	....	....	....	....	....	....	.23	....	.56	....	.10	.15	.18	.49	....	3.65
Poplar Bluff ‖	Black	....	....	....	1.14	....	....	....	....	....	....	....	.14	.18	....	....	....	....	....	....	....	....	....	.25	1.75	....	.12	....	1.27	.04	....	....	4.89
Sikeston‖	Mississippi	....	....	....	....	.05	T.	....	....	.02	....	....	....	.05	....	.05	....	....	....	....	....	....	....	.03	.09	.10	.15	....	....	1.32	.37	....	2.23
Cairo, Ill.***	do	....	....	....	.04	T.	....	....	....	.48	....	....	....	.09	1.60	....	....	....	....	....	....	....	.04	.10	T.	.63	....	T.	.66	.66	T.	....	4.30
Ozark Plateau.																																	
Arcadia ‖	St. Francis	1.09	T.	....	....	.76	.04	....	....	.25	....	....	....	.22	....	.52	.10	....	....	....	....	....	....	.45	.55	.97	.21	.11	.23	.39	.86	....	6.75
Aurora	Neosho	....	....	....	.90	3.01	....	24	....	1.76	....	....	T.	.90	....	....	....	....	....	....	....	....	....	....	....	1.38	T.	.03	.68	1.03	.30	....	10.23
Birchtree (near)	Black	....	....	....	.34	.53	....	....	....	....	....	....	....	1.03	....	....	....	....	....	....	....	....	.07	.54	.79	.82	....	....	.83	.63	....	....	5.58
Bolivar	Osage	....	....	....	1.64	1.70	....	....	....	1.80	....	....	....	.87	.01	....	....	....	....	....	....	....	....	....	....	.50	.80	.70	.50	....	.50	....	9.02
Caplinger Mills	Osage	....	....	.10	1.54	1.73	....	.27	....	.66	....	....	1.13	....	....	....	....	....	....	....	....	....	....	....	....	.88	.10	1.12	.48	.65	17	....	8.83
Dean	Neosho	....	....	....	3.18	3.38	....	....	.02	....	1.25	....	....	.14	T.	....	....	....	....	....	....	....	....	....	....	1.76	.10	.31	.74	1.56	.10	....	12.54
Eldon‖|	Missouri	.15	.08	....	1.32	1.93	.05	....	....	1.20	....	....	....	.59	.02	....	....	....	....	....	....	....	....	....	1.00	....	.95	.94	.31	.48	.56	....	9.58
Farmington	St. Francis	.30	....	....	....	58	....	....	....	.95	....	....	....	.11	....	.02	....	....	....	....	....	....	.03	.63	....	1.40	....	.19	.45	1 20	.05	....	5.91
Fredericktown‖‖	do	.68	....	....	....	T.	.38	....	....	....	.20	....	....	.40	....	....	....	....	....	....	....	T.	....	....	.48	.40	....	....	.25	.36	1.02	....	4.17
Galena‖|	White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Gano	Meramec	.13	....	....	T.	.77	....	....	....	1.32	....	....	.08	....	....	....	....	....	....	....	....	....	....	.44	....	.43	T	.46	.59	.79	.12	....	5 13
Goodland	Black	.15	....	....	....	.50	....	....	....	.80	....	....	....	.34	....	....	....	....	....	....	....	....	.03	.73	....	1.31	....	17	.56	.80	.03	....	5.42
Greenville	St. Francis	.50	....	....	.76	.73	....	....	....	....	....	....	....	.43	....	....	....	....	....	....	....	....	....	.59	....	.48	....	....	.86	.42	.02	....	4.79
Hailey	White	....	....	....	.97	....	....	2.50	....	....	....	....	.12	....	....	....	....	....	....	....	....	....	....	....	....	....	1.38	....	....	....	.12	....	5.09
Hollister	do	....	....	....	.60	2.00	....	.50	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.90	.50	....	....	....	....	2.00	2.00	....	....	8.50
Jerome ‖	Gasconade	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Koshkonong	Black	....	....	....	....	.62	....	....	....	....	....	....	....	.19	....	....	....	....	....	....	....	....	.04	.75	....	1.59	....	....	1.10	.62	....	....	4.91
Lebanon ‖	Osage	1.75	....	....	....	.91	.54	....	....	1.75	....	....	....	1.17	.05	....	....	....	....	....	....	....	....	T.	.12	.25	T	.80	.85	.75	.20	....	9.14
Lockwood	do	....	....	....	2.14	2.78	....	.12	....	1.63	....	....	2.15	....	....	....	....	....	....	....	....	....	....	....	....	.75	.15	.75	.59	1.01	....	....	12.07
Mountain Grove‖	White	....	....	....	..	1.55	.96	....	.06	.69	....	....	....	1.04	....	....	....	....	....	....	....	....	....	.25	1.30	1.36	.33	.10	.47	.76	.51	....	9.38
Neosho	Neosho	....	....	....	4.68	2 08	T.	.03	....	1.47	....	....	T.	.15	....	.16	....	....	....	....	....	....	....	T.	....	1.27	.10	.45	.68	1.32	.07	....	12.46
Owensville ‖	Gasconade	....	....	.40	....	.75	.10	....	....	1.02	....	....	....	.40	....	....	....	....	....	....	....	....	....	....	....	1.40	.12	.55	.40	.42	.29	....	5.85
Rolla ‖	Meramec	....	....	....	.63	.28	....	....	.87	....	....	....	.40	....	....	.14	....	....	....	....	....	....	....	T.	.53	.06	.37	.65	.78	.64	.38	....	5.73
Seligman	Neosho	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Seymour (near)	White	....	....	....	.71	2.71	....	T.	....	1.15	....	....	.50	.39	T.	....	....	....	....	....	....	....	T.	.57	....	1.15	T.	.23	.84	.50	.08	....	8.83
Springfield***	do	....	....	....	.88	1.91	....	T.	.08	1.02	....	....	.95	.04	....	....	....	....	....	....	....	....	T.	.05	T.	1.41	.15	.27	.54	.98	.05	....	8.33
Steelville‖ ‖	Meramec	.15	....	....	....	1.42	.20	....	....	.95	....	....	....	.28	....	....	....	....	....	....	....	....	....	.10	.07	.52	....	.50	.65	.82	1.05	....	6.71
Stover ‖	Missouri	....	.27	....	.68	.93	....	....	....	1.40	....	....	....	.94	....	....	....	....	....	....	....	....	....	T.	....	.85	....	1.30	.76	.31	.26	....	7.70
Tuscumbia ‖ ‖	Osage	.02	....	....	.35	2.16	.13	....	....	1.09	....	....	....	.72	....	....	....	....	....	....	....	....	....	.04	....	1.17	....	.78	.86	.35	.65	....	8.32
Willow Sprgs. ‖| (near)	White	....	....	....	....	1.40	.85	....	....	.25	....	....	....	.84	....	....	....	....	....	....	....	....	....	.09	.54	1.12	.21	.09	.40	.77	1.03	....	7.59
Southwest Plain.																																	
Amoret	Osage	....	....	.13	2.04	.83	....	....	.06	.38	....	....	1.80	.04	....	.32	....	....	....	....	....	....	....	....	....	....	.15	.21	1.64	.13	....	....	7.73
Appleton City	do	....	....	.01	1.44	.59	....	.03	T.	.93	....	....	1.44	.01	T.	.08	....	....	....	....	....	....	....	T.	....	.97	.30	1.46	24	.03	.15	....	7.68
Clinton	do	....	....	....	1.23	..	....	1.05	....	....	....	....	1.50	.05	....	.11	....	....	....	....	....	....	....	....	.65	....	....	1.70	.35	.10	.40	....	7.14
Concordia‖|	Missouri	1.70	....	....	....	.90	....	.33	1.50	....	....	....	.60	....	.10	....	....	....	....	....	....	....	....	....	....	....	.70	.60	.40	2.60	.15	....	9.58
Harrisonville‖	Osage	.65	....	....	1.37	.49	.03	....	.13	1.66	....	....	.84	.43	.02	.68	....	....	....	....	....	....	....	....	....	.01	....	.69	.60	.03	.96	....	8.59
Joplin*	Neosho	....	....	.14	5.23	1.34	T.	.05	.14	1.30	....	....	.17	.04	....	.21	....	....	....	....	....	....	....	....	.12	.76	.64	.79	.53	.52	.02	....	12.00
Lamar ‖	do	....	....	....	.48	4.00	....	....	.11	1.07	....	....	....	2.27	....	.14	....	....	....	....	....	....	....	....	....	.68	....	.80	.77	.40	65	....	11.37
Lamonte	Missouri	.05	1.95	....	1.55	.30	....	.07	.16	.77	....	....	.63	.05	.01	.30	....	....	....	....	....	....	....	....	.01	.16	.15	1.00	.30	.18	1.05	....	8.69
Marshall	do	.10	1.50	T.	.48	.06	....	.11	.15	1.30	....	....	.38	....	.01	.38	....	....	....	....	1.30	....	....	....	T.	.03	.08	.97	.25	.20	2.14	....	9.44
Nevada	Osage	....	....	.14	1.95	1.12	....	....	....	.92	....	....	1.62	....	....	.40	....	....	....	....	....	....	....	....	....	.60	.16	1.12	.31	.31	.09	....	8.74
Osceola‖|	do	....	....	....	1.37	.87	....	....	.19	1.40	....	....	1.66	.40	....	.46	....	....	....	....	....	....	....	....	....	.96	....	.89	.74	.30	.65	....	9.89
Warrensburg	Missouri	.22	1.30	.21	1.15	.25	....	T.	.36	1.30	....	....	.72	06	.10	.29	T	....	....	....	T.	....	....	T.	....	..	.05	1.07	.30	.09	.50	....	7.97
Warsaw ‖	Osage	....	..	.13	1.35	.60	....	.05	T.	1.10	....	....	1.20	T.	....	.10	....	....	....	....	....	....	....	....	....	1.10	.75	.07	.76	.25	T.	....	7.46
Waverly ‖	Missouri	.68	1.83	.02	.58	T.	.24	....	.33	1.54	....	....	.30	.16	.27	.50	.05	....	....	....	2.37	....	....	....	T.	T.	....	.79	.50	T.	1.09	....	11.25
Northwest Plateau.																																	
Albany‖|	Grand	....	.62	3.20	2.20	.63	....	....	T.	....	....	....	2.50	....	1.05	3.60	1.60	....	....	....	1.72	....	.28	....	....	....	....	.30	....	....	.24	....	17.94
Bethany	do	.16	.91	2.34	1.01	.77	....	....	.35	....	....	....	1.15	.05	.95	1.91	1.13	....	....	1.25	1.05	....	.11	T.	T.	....	T.	.42	T.	.04	.53	....	14.13
Chillicothe ‖|	do	.27	2.00	..	....	2.41	....	....	T.	.70	....	....	1.58	.07	T.	.91	T.	....	....	....	2.00	....	....	....	.02	.06	....	.28	.32	....	.97	....	11.59
Conception	Missouri	.64	1.20	1.36	.20	.62	....	....	.22	....	....	....	1.94	.02	.92	3.89	1.10	....	....	1.03	.75	....	.30	....	....	....	T.	.33	....	.03	.06	....	14.61
Edgerton	do	.79	.85	1.28	1.35	.15	....	....	.46	....	....	....	.76	.76	.23	.65	.04	....	....	....	1.09	....	....	....	T.	T.	.07	.58	.02	.03	.11	....	9.22
Gallatin ‖	Grand	.30	2.35	1.20	2.00	T	....	....	....	1.40	....	....	.56	....	....	1 67	T.	....	....	....	1.91	....	....	....	....	....	....	.60	....	T.	.40	....	12.39
Grant City	do	.36	1.73	2.32	.12	1.00	....	....	1.90	....	....	....	.52	....	.92	2.30	.09	....	....	1.12	.35	....	.52	.20	....	....	T.	.41	....	.13	.11	....	14.10
Kansas City***	Missouri	.35	.22	.29	.76	.07	....	.01	.55	....	....	T.	.59	.02	.27	.64	....	....	....	.22	....	....	....	....	.07	.01	.09	.82	....	.41	.94	....	6.33
Kidder ‖	Grand	.65	2.64	.86	3.63	....	.24	....	....	1.16	....	....	1.43	.04	.06	1.40	.17	....	....	....	.67	....	....	....	....	.07	....	.33	.18	....	.36	....	13.89
King City	Missouri	.80	.84	1.08	.60	.33	....	....	.05	....	....	....	.78	.07	1.07	3.60	.22	....	....	.50	.61	.08	....	....	....	....	....	.58	....	.02	.52	....	11.75
Lexington ‖	do	.37	2.30	....	.60	....	.12	....	....	1.15	....	....	.51	.11	.02	.60	.02	....	....	....	.44	....	....	....	....	.06	....	.57	.62	.03	1.40	....	8.92
Liberty ‖	do	2.06	1.73	....	.83	....	.09	....	....	.54	....	....	.61	....	....	1.03	....	....	....	....	.58	....	....	....	....	.24	....	.70	.31	....	....	....	8.72
Maryville ‖	do	.77	2.50	3.00	.25	1.42	.20	....	.37	.13	....	....	1.42	....	.60	4.40	.55	....	....	....	1.52	....	.18	....	....	....	....	.55	.04	....	.14	....	18.04
Oregon	do	.86	1.43	1.48	.20	.69	....	....	.14	....	....	....	.33	.02	1.90	.91	.39	....	....	.57	.24	....	.06	....	T.	....	.04	.40	....	03	.10	....	9.79
St. Joseph***	do	2.35	.17	.99	.79	.63	....	....	.11	....	....	.46	.29	.08	1.18	.23	.01	....	....	.22	.36	....	T.	....	.04	....	.11	.39	T.	T.	.26	....	8.67
Tarkio	do	.31	2.89	2.60	.14	1.25	....	....	.12	....	....	....	.76	....	1.92	.50	.31	....	....	1.25	....	....	.35	....	....	....	.02	.31	....	.46	.07	....	13.26
Trenton	Grand	1.26	.97	1.78	.18	.58	....	....	.36	....	....	....	.30	.14	.82	2.60	.04	....	....	1.66	....	....	....	....	.17	....	.35	.11	....	.34	.38	....	12.04

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for September, 1926.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	84	90	86	78	77	82	85	82	81	78	85	82	65	83	86	91	92	92	85	84	91	85	87	84	53	50	48	55	60	80	..	78.7
	Minimum	71	65	73	71	64	56	60	72	54	51	59	60	56	62	65	69	70	69	70	65	68	66	70	49	39	35	41	46	49	61	..	60.2
Columbia	Maximum	84	89	88	74	76	78	82	85	70	75	84	73	65	83	84	90	89	90	84	83	90	78	84	74	52	49	48	55	62	77	..	76.5
	Minimum	71	66	73	67	61	56	62	70	53	50	57	62	57	63	65	70	72	68	70	67	68	65	71	48	41	37	43	48	53	62	..	60.5
Fayette §§	Maximum	84	91	89	76	77	82	84	86	73	79	85	76	64	86	87	91	92	92	86	86	91	77	87	71	55	50	49	57	65	79	..	78.2
	Minimum	65	64	64	69	66	51	55	66	52	47	47	57	54	54	62	63	65	64	64	63	64	61	65	55	38	33	36	42	46	55	..	56.2
Hannibal	Maximum	86	82	88	78	75	77	81	78	68	72	82	70	63	80	82	90	90	90	76	79	88	79	84	76	51	51	47	55	60	74	..	75.1
	Minimum	71	69	70	68	63	58	63	68	53	49	56	57	56	63	66	67	71	68	69	67	67	68	70	50	40	38	43	47	54	60	..	60.3
Jefferson City §§	Maximum	86	91	90	74	75	82	82	88	70	78	84	70	70	85	87	90	90	91	90	85	90	84	84	69	51	51	51	57	64	78	..	77.9
	Minimum	70	68	68	73	66	58	61	65	58	52	55	60	58	58	66	66	69	66	68	67	66	66	68	67	41	38	41	44	50	56	..	60.3
Kirksville	Maximum	83	79	79	79	75	78	83	77	74	74	81	78	63	72	78	87	87	88	81	75	86	82	84	79	50	49	47	52	57	71	..	74.3
	Minimum	70	65	68	68	60	53	59	66	51	48	48	48	48	59	58	64	68	68	68	64	64	53	63	46	35	31	39	39	50	55	..	55.9
Louisiana	Maximum	92	89	90	89	83	80	82	79	78	76	84	80	70	83	84	90	90	90	85	84	88	81	83	80	72	55	52	55	60	70	..	79.1
	Minimum	69	69	70	69	69	62	61	66	58	46	52	65	56	61	67	64	67	64	66	65	62	62	72	52	43	33	33	46	52	58	..	59.3
Macon §§	Maximum	85	83	84	78	71	81	85	79	72	77	85	71	66	84	83	91	90	92	76	83	90	83	85	53	54	50	48	54	63	76	..	75.7
	Minimum	67	65	66	68	66	53	56	62	51	46	50	57	53	53	63	63	67	66	68	63	65	63	65	51	36	31	41	42	46	51	..	56.5
Mexico §§	Maximum	90	89	90	75	76	82	85	87	71	77	86	72	72	85	87	92	92	93	84	84	91	77	85	86	55	50	49	55	63	75	..	78.5
	Minimum	68	67	65	67	65	55	57	60	54	49	52	56	54	54	64	65	68	66	68	65	64	64	63	60	50	33	42	43	44	54	..	57.9
St. Catharine (near)	Maximum	82	85	78	79	78	79	82	83	75	76	84	79	65	80	81	87	87	88	84	80	88	81	85	75	51	50	47	55	65	75	..	76.1
	Minimum	69	60	66	69	59	58	71	63	56	60	67	55	54	59	70	72	69	75	64	70	76	69	69	47	36	29	42	47	59	62	..	60.7
St. Louis (1)	Maximum	89	89	92	85	77	78	81	91	71	73	81	76	67	83	86	91	90	91	92	87	83	85	77	88	53	53	52	58	63	71	..	78.4
	Minimum	73	73	73	71	65	64	64	68	60	55	58	62	59	64	70	73	75	73	72	70	66	71	72	53	44	39	44	51	57	62	..	63.4
Unionville	Maximum	88	84	80	82	72	80	84	80	76	75	84	80	67	75	81	86	88	87	80	74	86	82	84	80	52	53	48	54	60	70	..	75.7
	Minimum	64	64	65	67	60	54	60	64	48	47	56	56	52	60	60	63	67	67	65	60	67	60	64	46	33	27	40	44	50	55	..	56.2
Warrenton	Maximum	88	90	92	85	75	82	83	89	83	77	83	74	72	85	83	92	92	94	92	86	89	84	80	80	64	52	49	56	61	73	..	79.5
	Minimum	67	68	69	69	66	58	59	67	57	50	53	65	56	62	68	69	69	68	69	67	64	68	71	63	42	35	42	47	54	60	..	60.7
Southeast Lowlands.																																	
Campbell	Maximum	89	91	91	90	90	83	86	92	84	79	85	88	80	90	91	93	92	96	91	90	91	89	81	87	79	62	67	62	79	89		85.2
	Minimum	71	72	70	71	70	65	61	66	67	53	50	53	69	66	67	67	62	67	69	67	67	69	70	72	50	44	48	56	60	65	..	63.5
Caruthersville	Maximum	91	92	93	93	93	84	87	94	79	80	85	92	83	95	93	94	93	91	92	92	94	94	87	90	77	67	71	67	83	87	..	87.1
	Minimum	73	73	73	74	73	70	66	72	72	60	59	62	71	70	72	72	69	73	70	70	70	74	75	76	54	49	52	60	64	69	..	67.9
Doniphan	Maximum	90	91	90	90	85	87	84	91	81	77	82	84	76	87	88	90	90	90	90	90	87	89	81	85	81	61	62	61	81	85	..	83.5
	Minimum	71	71	70	71	64	65	60	66	67	52	50	53	67	65	69	64	66	67	69	69	68	67	57	72	45	45	50	55	62	62	..	62.6
Jackson	Maximum	91	89	92	90	90	82	85	92	89	76	85	86	82	92	91	93	95	94	92	90	90	89	87	86	84	61	61	61	68	85	..	84.9
	Minimum	66	70	70	70	68	62	55	63	62	49	47	52	66	65	67	65	64	65	65	66	65	67	71	71	47	41	46	52	52	64	..	61.1
Poplar Bluff	Maximum	91	93	93	92	88	90	89	94	86	84	87	89	82	91	93	96	96	90	96	95	94	90	84	89	76	64	63	61	70	89	..	86.5
	Minimum	70	71	69	70	68	62	59	64	69	51	50	52	67	66	68	65	62	65	69	66	65	68	72	70	50	42	48	55	58	64	..	62.5
Sikeston	Maximum	90	91	91	91	90	85	87	93	82	79	87	92	81	92	91	95	96	93	94	91	93	90	82	86	78	63	65	61	72	90	..	85.7
	Minimum	70	72	71	71	69	65	58	65	69	52	51	55	62	67	69	68	66	68	68	68	66	69	66	72	51	44	49	56	60	65	..	63.4
Cairo, Ill.	Maximum	88	88	89	89	88	78	84	90	78	75	83	87	79	89	88	90	90	89	88	88	88	88	82	85	76	61	63	62	71	87	..	82.7
	Minimum	72	76	74	71	71	67	63	69	63	58	55	63	68	69	71	72	71	71	70	70	69	74	71	75	50	46	52	57	62	67	..	66.2
Ozark Plateau.																																	
Arcadia §§	Maximum	87	87	88	84	76	78	80	89	72	75	83	77	72	85	85	86	86	86	87	86	86	79	77	85	49	55	54	59	64	84	..	78.0
	Minimum	67	69	71	72	69	62	55	58	65	48	48	53	63	65	67	65	62	61	62	63	62	62	68	70	47	39	41	44	53	57	..	59.6
Birchtree	Maximum	89	91	89	88	75	84	80	90	81	80	89	83	77	88	86	90	89	89	89	91	91	80	79	87	75	55	56	60	65	85	..	81.7
	Minimum	69	70	69	73	68	61	61	62	61	52	52	63	64	66	68	68	68	67	67	67	66	69	67	70	45	42	45	54	58	62	..	62.5
Eldon §§	Maximum	85	92	89	74	76	82	82	88	73	76	84	69	68	87	87	90	90	90	85	90	86	88	77	46	49	51	55	68	85	82	..	78.1
	Minimum	69	68	69	72	65	56	56	60	58	49	51	58	60	59	65	65	68	65	65	65	62	62	63	43	41	41	43	51	55	64	..	58.9
Farmington	Maximum	89	90	92	82	79	82	84	92	78	76	82	77	77	90	87	94	93	93	94	89	90	85	77	90	77	54	51	59	65	88	..	81.9
	Minimum	68	67	69	72	67	61	56	64	59	48	52	57	67	65	65	66	65	64	63	66	64	64	71	67	46	38	44	49	56	59	..	60.6
Hollister	Maximum	90	92	90	91	93	90	84	90	90	90	91	89	90	91	94	94	92	94	95	92	90	89	90	92	81	58	60	61	70	74	..	86.2
	Minimum	60	64	60	60	62	60	60	61	60	51	51	53	56	58	60	65	59	60	60	62	60	60	59	60	45	44	44	54	58	60	..	57.6
Koshkonong	Maximum	87	89	89	88	81	82	82	89	83	78	83	82	78	88	87	91	90	90	90	89	90	80	79	86	80	63	69	65	67	83	..	82 6
	Minimum	67	70	70	71	69	62	62	69	65	52	54	59	66	66	68	69	68	73	68	67	65	70	70	71	49	43	48	55	59	61	..	63.5
Lebanon §§	Maximum	87	89	88	76	75	82	80	89	71	88	83	90	71	87	86	89	90	90	91	89	90	84	84	87	53	50	55	58	66	86	..	80.1
	Minimum	65	69	69	69	66	55	54	59	58	49	49	55	63	65	65	65	66	63	63	65	64	65	65	69	43	36	38	38	50	52	..	58.4
Mountain Grove	Maximum	89	87	89	82	78	82	76	88	78	79	80	79	78	86	84	88	85	89	92	90	87	82	80	86	76	57	54	60	65	83	..	80.3
	Minimum	68	69	69	70	65	58	61	67	59	52	54	61	64	66	67	68	66	68	67	66	66	68	69	68	44	40	43	51	57	62	..	61.8
Neosho	Maximum	88	89	90	83	76	85	87	89	85	82	88	84	77	89	87	90	90	91	92	93	92	87	90	89	73	52	55	57	67	83	..	82.7
	Minimum	70	72	70	65	64	60	62	71	59	51	58	63	65	61	67	64	65	62	61	61	60	57	71	72	40	41	45	48	55	63	..	60.9
Rolla	Maximum	82	92	90	81	77	81	81	81	83	77	84	74	70	87	86	90	88	89	90	89	89	82	82	87	70	52	51	55	64	83	..	79.6
	Minimum	69	70	71	70	67	58	60	69	58	50	55	61	62	65	71	68	68	65	68	65	64	66	62	68	41	37	42	50	53	62	..	61.3
Springfield	Maximum	85	88	85	77	74	79	77	86	75	76	81	71	73	86	85	86	86	87	90	87	87	79	84	85	49	50	51	57	66	82	..	77.5
	Minimum	71	71	71	67	64	59	65	71	58	54	59	64	66	67	70	69	70	69	69	68	68	68	70	49	40	40	44	49	57	65	..	62 4
Southwest Plain.																																	
Amoret	Maximum	85	90	89	77	77	81	85	85	78	77	84	80	71	87	83	88	88	89	90	90	89	83	89	82	61	50	50	51	66	82	..	79.2
	Minimum	71	70	71	65	65	57	60	73	53	50	62	63	59	63	64	67	68	67	64	68	67	59	66	56	39	38	41	40	47	59	..	59.7
Appleton City	Maximum	86	90	84	76	77	83	80	85	81	77	85	78	66	87	85	89	88	90	91	89	90	82	89	82	51	48	51	53	66	83	..	78.7
	Minimum	72	68	73	66	65	56	63	63	56	52	62	65	60	64	64	68	69	67	68	67	69	64	71	49	40	41	40	48	51	63	..	60.8
Clinton	Maximum	81	92	89	79	..	..	88	75	88	80	88	77	71	87	85	90	95	91	93	92	92	83	91	83	65	56	52	65	68	83	..	[b]81.4
	Minimum	71	70	66	68	..	..	55	55	55	50	60	66	59	64	64	70	69	67	68	67	68	64	71	50	50	38	40	48	50	63	..	[b]60.2
Harrisonville §§	Maximum	83	91	79	72	72	83	81	83	72	75	85	69	66	84	85	88	87	90	87	89	89	80	88	58	52	47	48	52	67	81	..	76.1
	Minimum	66	65	65	65	65	55	56	65	53	52	54	63	57	57	62	63	68	67	67	65	65	63	66	56	37	37	39	41	46	50	..	57.7
Lamar §§	Maximum	86	91	88	73	77	84	85	89	73	80	85	71	71	88	84	89	88	91	90	93	92	88	90	85	49	48	53	56	71	84	..	79.7
	Minimum	72	73	73	67	66	60	62	67	59	54	55	63	63	63	68	67	69	67	67	67	67	64	65	70	42	42	43	46	49	56	..	61.5
Lamonte	Maximum	85	93	93	76	77	85	85	87	75	81	87	72	64	86	87	92	93	93	89	90	93	81	90	79	55	49	48	54	67	83	..	79.6
	Minimum	70	65	65	67	65	54	61	71	53	49	57	60	57	62	64	69	70	69	70	65	68	62	70	48	38	34	41	46	48	63	..	59.4
Marshall	Maximum	86	94	91	86	78	81	83	97	80	80	86	80	81	85	88	92	93	92	90	88	..	80	88	82	54	50	48	55	53	82	..	[a]80.1
	Minimum	67	64	71	68	66	54	57	70	52	47	55	65	58	63	65	67	68	68	62	65	..	66	68	41	38	34	40	45	42	52	..	[a]57.9
Nevada	Maximum	88	90	80	80	80	82	84	86	70	78	85	81	68	88	83	88	88	88	90	90	90	84	89	86	51	48	52	53	67	82	..	79.0
	Minimum	69	72	71	66	65	58	63	74	57	52	62	64	60	65	65	68	70	68	69	68	69	53	70	51	40	42	40	47	50	63	..	61.0
Warrensburg	Maximum	85	89	88	78	74	80	83	85	81	77	84	82	64	83	84	88	89	90	88	87	90	86	87	86	52	51	48	54	65	81	..	78.6
	Minimum	70	65	73	67	66	57	63	73	55	52	61	64	58	62	64	70	72	70	70	65	70	65	72	50	40	37	41	47	49	63	..	61.0
Warsaw	Maximum	86	92	90	80	78	83	82	86	83	79	85	80	79	88	86	90	90	91	92	89	91	86	89	84	62	57	55	56	72	84	..	81 5
	Minimum	71	68	71	66	60	59	60	65	58	50	61	65	62	61	65	68	71	67	66	67	66	62	72	62	41	41	44	50	52	63	..	61.1
Northwest Plateau.																																	
Chillicothe §§	Maximum	84	87	84	84	70	82	85	82	72	77	86	63	66	82	85	91	91	90	81	82	90	80	89	52	52	48	47	55	63	80	..	76.0
	Minimum	68	65	65	63	61	53	59	63	51	51	57	62	52	52	62	63	67	68	71	65	65	63	63	51	36	31	35	41	46	51	..	56.7
Grant City	Maximum	84	81	79	84	78	75	76	80	74	73	79	77	68	73	80	85	84	86	78	75	87	77	85	70	50	47	46	50	56	75	..	73.7
	Minimum	65	63	65	64	52	53	55	64	49	50	61	54	53	65	61	64	67	68	65	63	67	58	62	44	34	30	38	44	49	55	..	56.1
Kansas City	Maximum	83	91	80	77	70	85	83	82	68	76	86	74	62	85	84	89	89	90	86	85	90	78	91	60	49	45	46	52	62	82	..	76.0
	Minimum	69	64	71	66	63	60	66	63	55	56	65	57	57	60	64	71	72	71	68	67	72	65	60	45	38	38	40	45	50	62	..	60.0
Kidder §§	Maximum	83	88	81	82	82	81	83	82	68	74	85	62	63	80	81	87	88	88	79	80	87	78	86	52	48	46	47	52	62	79	..	74.5
	Minimum	67	61	61	65	69	52	54	61	43	50	55	58	50	51	60	62	66	66	67	64	66	59	62	48	34	32	35	39	44	49	..	55.0
Lexington §§	Maximum	79	90	84	79	72	82	82	81	72	75	84	78	63	81	81	87	89	89	82	85	89	80	90	79	53	46	47	53	62	81	..	76.5
	Minimum	72	65	70	68	67	55	61	72	53	50	60	60	56	61	63	68	69	69	71	67	68	63	69	49	38	34	40	46	47	53	..	59 5
Maryville	Maximum	78	86	79	81	80	75	81	83	80	74	77	81	77	69	74	81	88	88	80	77	89	82	84	62	53	50	45	51	55	80	..	74.7
	Minimum	65	62	65	66	60	52	62	70	50	52	63	55	54	59	61	62	68	68	63	64	69	58	62	46	33	31	39	44	48	55	..	56.9
Oregon	Maximum	86	88	82	79	75	86	87	83	76	80	82	78	67	82	85	90	91	91	82	87	91	84	90	72	56	54	47	52	57	83	..	78.1
	Minimum	66	69	61	66	61	55	63	73	51	52	66	56	55	60	63	65	71	71	62	67	71	61	69	42	33	33	40	45	49	56	..	58.4
St. Joseph	Maximum	87	85	81	79	71	84	85	84	72	77	87	69	65	82	83	89	90	90	79	84	90	80	90	59	51	45	46	52	60	82	..	75.9
	Minimum	65	65	68	67	59	58	64	62	52	54	66	56	56	61	64	69	71	72	65	67	72	63	59	46	36	36	39	45	49	60	..	58.9
Trenton	Maximum	80	79	76	79	75	75	80	78	74	70	79	67	67	74	78	83	88	88	84	77	84	77	82	74	60	51	49	52	58	76	..	73.8
	Minimum	69	66	64	65	63	55	65	70	51	60	56	54	53	58	62	68	70	68	66	68	69	62	64	51	37	34	41	40	50	51	..	58.3

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 10-22-26—875.

51.03
U N MS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXX. COLUMBIA, MO., OCTOBER, 1926. No. 10.

GENERAL SUMMARY.

October, 1926, in Missouri, was generally a mild month, but much wetter than normal. It was slightly cooler than normal over the northern half of the State, the deficiencies being less than 1 degree. Over the southern half, outside of the southeastern lowlands, the temperature was nearly normal; in the southeastern lowlands the excess over the normal averaged about 1.4 degrees. The first general killing frost and freeze occurred on the 25th, except in a few protected localities; heavy frost, (heavy to killing,) occurred locally on the 24th. There was no damage as all staple crops had matured.

The more outstanding and adverse feature was heavy rainfall. The tendency toward frequent and heavy precipitation, so persistent during the latter part of August and most of September, continued through much of October, although the frequency was less marked in the southeastern quarter of the State during the first half of the month, and there was more or less letting up in the rain spells over the remainder of the State the latter half of the month.

With more rain and less sunshine than usual, most of the month was unfavorable for the farming interests. The wet weather caused corn to sprout and rot in much of the lower lands; stalks also were badly tangled in most sections and interfered with gathering and husking. Much corn was destroyed by overflows in the northwestern counties. Wheat seeding was delayed by wet ground, and considerable acreage was in poor condition for planting. The State highway work was much interrupted by the too frequent rainy spells.

TEMPERATURE.

The monthly mean temperature for the State, as shown by the records of 68 stations, was 57.3 degrees, or about normal. The southeastern lowlands were about 1.4 degrees warmer than normal; the northern half of the State was less than one degree colder than normal, and the southwestern plain and the Ozark Plateau were a little warmer than normal. Temperatures alternated above and below normal for periods of three or four days together, as a rule. About the coldest and longest period prevailed from about the 19th to the 26th, with the first general killing frost and freeze on the 24th and 25th. These two dates and the 31st, and probably locally on the 21st, were the only days with minima of 32 degrees or lower. The opening days of the month were the warmest, with maxima ranging from 85 to 93 degrees.

PRECIPITATION.

The average precipitation for the State, 101 stations reporting, was 4.67 inches. This amount is about 1.92 inches more than the 56 years' average, and about 0.18 inch less than last October. Not more than four Octobers during 50 years or more were wetter than the last two. All parts of the State were decidedly wetter than usual, but, all things considered, the rains were not quite so steady and so heavy in the southeastern lowlands as in the other sections during the first part of the month. Over all the State there was a break in the rainy spells on the 7th and 8th, and from the 14th to the 18th; and over the western half of the State there was less rain during the latter half of the month, which also would include much of the Ozark region. More than 8 inches occurred at one station, more than 7 inches at four stations, while from 4 to 6 inches were quite common as the monthly totals. The greatest amount in any 24 consecutive hours was 3.85 inches, at Eldon on the 9th.

MISCELLANEOUS PHENOMENA.

Earthquake.—Tremor felt at Poplar Bluff on the 27th.

Aurora.—At St. Joseph on the 13th.

Fogs.—2d, 10th, 11th, 13th, and 14th.

Frost.—Light to heavy 23d, and 24th. Killing.—Locally on the 24th, and more or less general on the 25th.

Hail.—Light at Clifton Hill on the 5th. Heavy few miles northwest of Amoret on the 19th; considerable damage, but no estimate obtainable.

Halos, solar.—3d, 12th, 14th, 17th, and 28th.

Halos, lunar.—On the 14th.

Thunderstorms.—1st, 2d, 3d, 4th, 5th, 9th, and 19th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.97	87	74	173	50	5,110	6.9	24	s.	3
Hannibal	29.97	86	..	...	..	5,754	7.7	36	nw.	3
Kansas City	29.97	79	64	224	65	7,492	10.1	30	sw.	3
St. Joseph	29.96	81	65	220	64	5,231	7.0	36	nw.	1
St. Louis	29.98	84	68	170	49	8,341	11.2	37	sw	27
Springfield	29 97	86	70	191	55	7,434	10.0	31	s.	3
Cairo, Ill	29.99	86	70	...	..	5,758	7.7	29	n.	30
Keokuk, Iowa	29.96	80	66	172	50	4,839	6.5	28	s.	3

COMPARATIVE DATA FOR OCTOBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	53.6	−3.5	89	24	2.65	+0.21	......	....	7	....	....	....
1889	53.8	−3.3	91	27	2.50	+0.06	......	....	6	....	....	....
1890	54.8	−2.3	91	22	2.24	−0.20	......	....	6	....	....	....
1891	55.7	−1.4	98	19	1.11	−1.33	......	....	3	....	....	....
1892	57.5	+0.6	95	16	2.28	−0.16	2.40	0	5	16	7	8
1893	56.7	−0.4	95	16	0.99	−1.45	2.81	....	10	20	8	3
1894	57.6	+0.5	94	18	1.74	+0.70	3.52	T.	6	17	8	6
1895	54.2	−5.9	89	15	0.35	−2.09	1.20	T.	2	21	6	4
1896	54.1	−3.0	90	19	2.48	+0.04	2.68	0	5	19	6	6
1897	62.5	+5.4	99	23	0.71	−1.73	1.70	0	3	22	6	3
1898	53.5	−3.6	94	19	4.23	+1.79	4.51	1.4	8	11	7	13
1899	62.4	+5.3	100	24	2.93	+0.49	2.53	0	5	20	6	5
1900	62.4	+5.3	92	25	4.18	+1.74	4.04	0	7	17	7	7
1901	60.1	+3.0	96	24	1.64	−0.80	2.98	0	6	18	8	5
1902	59.5	+2.4	88	28	2.52	+0.08	2.69	0	5	21	5	5
1903	57.2	+0.1	90	19	2.85	+0.41	3.80	0	6	19	6	6
1904	57.6	+0.5	90	19	0.90	−1.54	2.46	0	3	20	7	4
1905	55.1	−2.0	90	20	4.64	+2.20	7.24	0.3	5	17	6	8
1906	56.3	−0.8	94	17	0.87	−1.57	1.50	0	10	15	7	9
1907	56.7	−0.4	94	18	2.90	+0.46	3.46	0	7	19	5	7
1908	56.3	−0.8	92	21	2.74	+0.30	4.90	0.8	5	18	6	7
1909	57.2	+0.1	96	20	2.77	+0.33	2.57	T.	6	19	5	7
1910	59.4	+2.3	94	15	2.71	+0.27	5.50	0	5	22	4	5
1911	56.9	−0.2	96	25	3.30	+0 86	5.12	0.2	8	11	7	13
1912	59.1	+2.0	97	21	3.83	+1.39	5.12	0.7	6	20	5	6
1913	54.7	−2.5	93	11	4.46	+1.94	2 80	3.3	9	15	6	10
1914	59.2	+2.0	88	19	4.54	+2.04	5.40	0	7	14	6	11
1915	59.8	+2.9	95	22	1.19	−1.45	1.97	0	3	23	5	3
1916	58.0	+0.7	95	20	2.17	−0.54	3.90	0	6	18	5	8
1917	49.8	−7.4	93	12	1.16	−1.49	2.00	0.2	6	16	8	7
1918	60.6	+3.5	95	28	3.37	+0.71	5.61	0	7	14	6	11
1919	58.4	+1.4	98	17	6.74	+3.92	4.91	0	11	10	7	14
1920	61.3	+4.3	93	18	2.89	+0.25	2.45	T	7	17	6	8
1921	57.9	+0.8	92	24	2.19	−0.40	2.32	0	5	21	5	5
1922	59.9	+2.4	97	18	2.00	−0.77	3.00	0	5	20	5	6
1923	53.0	−4.4	89	17	3.39	+0.64	2.76	0.1	9	15	5	11
1924	61.8	+4.4	92	21	1.22	−1.53	2.73	0	4	22	5	4
1925	48.6	−8.8	92	− 3	4.85	+2.10	3.12	2.4	10	8	8	15
1926	57.3	−0.1	93	21	4.67	+1.92	3.85	0	9	14	6	11

Climatological Data for October, 1926.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	57.1	+1.9	85	3	26	25	33	4.46	+1.73	1.10	0	13	13	4	14	nw.	O. K. Benecke
Clifton Hill	Randolph	731	26	55.4	−1.8	84	3	25	25	36	4.33	+2.21	1.33	T.	12	11	8	12	.....	Dr. A. J. Bradsher
Columbia	Boone	748	35	55.9	−0.7	85	3	27	25	33	3.72	+1.30	0.94	0	11	12	6	13	s.	U. S. Weather Bureau
Downing	Schuyler	878	4	54.4	......	83	3	25	25	31	3.97	+1.77	0.96	0	9	10	4	17	s.	E. E. St. Clair
Fayette	Howard	661	45	53.6	−3.1	85	3	22	25	41	3.88	+1.40	1.03	0	8	..	..	..	.....	J. D. Settle
Fulton	Callaway	818	37	56.2	−1.5	81	4	27	25	36	6.63	+3.88	1.68	0	13	12	9	10	......	Chamber of Commerce
Gorin	Scotland	700	38	....	......	..	..	..	..	..	5.17	+2.79	1.53	0	8	9	7	15	nw.	J. W. Pulliam
Hannibal	Marion	534	33	55.4	−0.6	86	3	29	25	34	2.95	+1.31	1.61	0	9	11	7	13	nw.	U. S. Weather Bureau
Jefferson City	Cole	557	37	55.4	−1.3	85	3	27	25	36	6.38	+3.79	1.65	0	10	22	4	5	n.	Miss Emma Swift
Kirksville	Adair	969	36	54.2	−0.5	82	3	25	25	31	3.33	+0.60	0.75	0	10	13	1	17	nw.	Prof. J. S. Stokes
Louisiana	Pike	469	31	55.9	−0.4	86	3	27	25	37	4.21	+1.58	1.52	T.	11	18	3	10	w.	J. T. Farrell
Macon	Macon	875	26	55.0	−1.8	88	3	25	25	35	7.08	+4.35	1.60	0	11	14	7	10	sw.	W. C. Brown
Mexico	Audrain	800	36	56.3	−0.1	88	3	27	25	40	4.34	+1.96	1.05	0	9	20	0	10	w.	Mrs. Abbie Snoddy
St. Catharine(near)	Linn	800	14	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	.....	Mathias Schoch
St. Charles	St. Charles	456	37	58.8	+0.7	87	1	28	25	34	5.04	+2.37	1.63	0	9	12	7	12	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	58.4	−0.4	87	1	33	25	31	3.84	+1.43	1.26	0	13	13	9	9	sw.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	57.9	−1.0	88	1	33	25	29	4 29	+0.50	1.24	0	13	9	10	12	se.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	..	..	..	4.19	+1.47	0.95	0	11	..	..	..	.....	J. C. Jewett
Steffenville	Lewis	650	27	57.0	−0.7	86	3	25	25	35	3.03	+0.91	0.70	0	9	9	14	8	s.	Frank Hall
Unionville	Putnam	1,062	32	54.5	−0.9	80	3	25	25	31	4.25	+1.79	1.25	0	8	10	11	10	s.	Geo. W. Davis
Warrenton	Warren	816	43	57.4	+1.8	86	3	27	25	35	3.50	+0.64	0.81	0	11	10	12	9	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	54.2	−1.2	85	3	28	25	33	3.41	+0.92	1.42	0	11	7	10	14	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	55.9	−0.6	88	1†	22	25	41	4.38	+1.84	1.68	0	10	12	7	12	s.	
Southeast Lowlands.																				
Benton	Scott	340	0	....	......	..	..	..	..	..	3.46	......	1.60	0	6	..	..	..	....	E. R. Tirmenstein
Campbell	Dunklin	314	0	61.5	......	91	2	29	25	39	2.29	......	0.89	0	9	11	12	8	n.	Jeff. King
Caruthersville††	Pemiscot	265	29	64.4	+2.7	93	2	31	25	30	4.01	+1.05	2.00	0	8	14	6	11	se.	John T. Markey
Doniphan	Ripley	344	21	59.4	+1.0	88	2	28	25	40	4.53	+1.48	1.57	0	8	17	8	6	sw.	W.W. Martin
Jackson	Cape Girardeau	428	34	59.0	+1.0	91	1	27	25	41	3.75	+0.53	1.43	0	8	6	5	20	n.	John G. Putz
Marble Hill	Bollinger	470	30	59.0	+1.0	91	1	27	25	38	4.25	+1.60	1.76	0	8	6	5	20	n.	R.A. DeWitt
Morehouse	New Madrid	289	24	....	......	..	..	..	..	..	2.84	+0.24	1.41	0	7	14	9	8	sw.	John A. Spence
Parma	New Madrid	281	4	....	......	..	..	..	..	..	2.67	......	1.05	0	5	..	..	..	.....	H. W. Kendall
Patton	Bollinger	605	16	....	......	..	..	..	..	..	6.63	+3.46	2.78	0	9	..	..	..	...	S. P. Presnell
Poplar Bluff	Butler	329	21	61.1	+0.8	92	2	27	25	42	2.81	−0.39	1.12	0	4	17	9	5	s.	J. H. Wolpers
Sikeston	Scott	318	20	61.1	+2.3	91	1†	28	25	35	3.34	+0.74	1.42	0	8	14	6	11	sw.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	359	50	61.2	+0.8	88	2	33	25	25	3.43	+0.80	1.18	0	12	11	10	10	s.	U. S. Weather Bureau
Section means and	extremes	....	..	60.8	+1.4	93	2	27	25	42	3.67	+1.06	2.78	0	7	12	8	11	sw.	
Ozark Plateau.																				
Arcadia	Iron	926	44	55.6	−0.5	86	1	27	25	37	4.92	+1.85	1.66	0	8	21	0	10	s.	Arcadia College
Aurora	Lawrence	1,370	..	59.6	+1.1	84	1	29	25	33	3.18	−0.09	1.95	0	6	12	6	13	sw.	W T. Troughton
Birchtree (near	Shannon	1,000	30	59.0	+0.8	87	1	23	25	37	7.53	+4.95	3.30	0	6	17	1	13	se.	V. H. Kirkendall
Bolivar††	Polk	1,071	31	59.8	+1.3	87	1	27	25	34	4.50	+1.19	1.53	0	15	18	5	8	ne.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	88	1†	..	..	..	5.38	+1.89	2.86	0	11	17	3	11	nw.	H. E. Dean
Eldon	Miller	934	29	55.2	−2.5	84	2	25	24†	38	8.66	+5.63	3.85	0	10	12	8	11	w.	E. H. Shepherd
Farmington	St. Francois	918	14	57.3	+0.9	90	1	26	25	37	5.05	+2.16	2.05	0	10	11	12	8	nw.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	57.6	−0.4	86	1	24	25	35	4.59	+0.71	1.47	0	9	15	5	11	s.	A. C. Leach
Goodland	Iron	1,000	31	57.5	+1.7	91	1	23	25	44	5.70	+2.48	2.85	0	7	14	7	10	s	F. M Adams
Greenville	Wayne	381	3	56.6	......	82	3	25	25	37	5.01	......	1.68	0	8	19	1	11	sw.	Wm. P. Owens
Hailey††	Barry	1,350	0	....	......	..	..	..	..	..	1.35	......	0.90	0	3	21	6	4	w.	A. W. Madison
Hollister	Taney	735	38	60.4	0.0	90	3	22	26	39	4.25	+1.42	1.50	0	4	12	4	14	sw.	Mrs. W. P. Chapman
Koshkonong	Oregon	958	24	61.0	+1.0	88	3	27	25	30	4.64	+1.73	2.00	0	7	16	1	14	s.	R. M. Hitt
Lebanon	Laclede	1,265	37	56.6^{a}	−1.4	86	3	21	25	39	6.50	+3.24	2.20	0	6	14	4	13	s.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	57.8	−0.8	77	3†	29	25	26	5.50	+2.05	2.12	0	8	12	5	14	nw.	C. S. Crow
Mountain Grove(near)	Wright	1,463	24	58.5	+0.9	84	3	23	25	34	3.56	+0.51	1.30	0	5	14	8	9	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	60.7	+1.5	85	1	25	25	41	4.03	+0.64	1.94	0	8	15	8	8	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	57.4	+1.5	85	1	25	25	30	5.58	+2.63	2.03	0	10	15	10	6	sw.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	....	Floyd E. Fawver
Seymour (near)	Webster	1,642	19	57.6	+0.1	81	3	22	25	41	4.81	+1.80	1.55	0	8	13	8	10	sw	Ira H. Hailey
Springfield	Greene	1,350	37	58.2	0.0	84	1	28	25	29	4.14	+1.34	2 36	0	10	13	11	7	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	58.1	+0.3	91	1	21	25	44	4.95	+2.01	3.85	0	8	15	6	10	s.	
Southwest Plain.																				
Amoret	Bates	831	18	58.2	+1.1	80	1†	26	25	36	7.08	+4.56	2.33	0	8	22	4	5	s.	Andrew Rood
Appleton City	St. Clair	853	31	58.6	−0.5	81	3	28	25	34	4.01	+1.67	1.60	0	10	13	11	7	nw.	W. G. Bigelow
Clinton	Henry	765	32	59.6	+1.0	83	1†	27	25	32	6.16	+3.35	1.88	0	9	16	8	7	nw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	56.2	+0.2	79	3	27	25	31	4.65	+2.06	1.45	0	8	7	0	24	e.	John H. Patterson
Lamar	Barton	980	38	59.2	+0.3	81	3	29	25	35	4.14	+1.01	1.30	0	6	12	7	12	se.	Jesse A. Mann
Lamonte	Pettis	867	24	57.7	−0.3	85	3	24	25	38	5.98	+3.65	1.80	0	11	18	8	5	sw.	J. E. Wheeler
Marshall	Saline	779	36	56.4^{c}	−0.2	87	3	28	25	38	3.28	+0.70	1.30	0	13	15^{b}	4^{b}	10^{b}	nw.	Dr. W. H. Black
Nevada	Vernon	862	32	58.7	+1.4	81	3	28	25	32	3.75	+0.67	1.51	0	8	17	3	11	sw.	George A. Kanpp
Warrensburg	Johnson	878	38	58.4	+0.3	82	3	29	25	31	4.55	+2.00	1.55	0	10	16	4	11	sw.	L. B. Johnston
Warsaw	Benton	687	25	58.8	−0.3	85	1	25	25	43	4.70	+1.39	2 00	0	5	19	4	8	w.	Everett Martin
Section means and	extremes	.....	..	58.2	+0.3	87	3	24	25	43	4.83	+2.11	2.33	0	9	16	5	10	sw	
Northwest Plateau.																				
Bethany	Harrison	916	33	55.2	+0.5	80	3	24	24†	33	3.92	+1.71	1.43	0	10	15	5	11	nw.	M. H. Moulton
Chillicothe	Livingston	779	16	54.7	−3.5	82	3	26	25	36	4.04	+0.59	1.17	0	11	13	5	13	nw	Wm. J. Olenhouse
Conception	Nodaway	980	36	55.0	−0.5	78	3†	25	24	34	5.21	+2.76	1.66	0	8	13	9	9	se.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	55.7	......	80	3	24	25	35	4.48	+2.23	1.38	0	9	19	2	10	s.	Fred L. Stiff
Grant City	Worth	1,134	21	54.2	−1.2	78	3	25	24	31	3.67	+0.95	1.25	0	8	19	7	5	nw	W. P. Spillman
Kansas City	Jackson	963	36	57.5	−0.2	80	3	31	24	30	4.27	+2.06	1.32	0	10	14	5	12	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	53.2	−3.2	79	3	25	24†	33	4.82	+2.20	1.87	0	10	12	9	10	nw	Linn Terry
King City	Gentry	1,095	0	....	......	..	..	..	..	..	5.48	......	1.90	0	9	..	..	..		D. B. Oliver
Lexington	Lafayette	688	40	57.0	−0.5	79	3	27	25	31	5.89	+3.32	2.52	0	7	15	6	10	se.	Edwin G Loomis
Liberty	Clay	859	35	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..		Doran H. Coffman
Maryville	Nodaway	1,169	35	55.2	+1.9	77	12†	26	24	34	5.74	+3.07	2.72	0	8	19	2	10	n.	J. R. Brink
Oregon	Holt	1,048	69	57.7	+2.8	80	1†	26	24	33	5.62	+3.06	1.88	0	8	15	11	5	sw.	Mina Wright
St. Joseph	Buchanan	967	17	56.6	+0.3	80	3	28	24	29	4.82	+2.40	2.48	0	8	15	8	8	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	22	51.8	−3.7	76	8	25	24	29	2.20	−0.37	0.94	0	4	12	6	13	nw.	Albert Volker
Trenton	Grundy	822	29	55.1	−1.2	77	3	28	24†	25	3.27	+0.71	1.18	0	10	14	5	12	ne.	W. H. Estes
Section means and	extremes	.....	..	55.3	−0.7	82	3	24	24†	36	4.53	+1.90	2.72	0	9	15	6	10	nw.	
State means and	extremes	.....	..	57.3	−0.1	93	2	21	25	44	4.67	+1.92	3.85	0	9	14	6	11	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson; of Gano, Salem. R. F. D. No. 5. ‡ Indicates plus.

Daily Precipitation for October, 1926.

Stations.	Drainage-basins.	Day of month. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Northeast Plain.																																	
Boonville||	Missouri	.95	.03	.50	1.20	.05	T.				.95			.05						T.	.27				.35		.05				.05		4.45
Brunswick||	Grand	.20	.05	1.10	.80	.30	.05			.10	1.10		.05	.08							.40				.20		.03						4.46
Clifton Hill	Chariton	.15	.84	.01	1.33	.36				1.10	.09		.02							.22				.13	.04		.04						4.33
Columbia***	Missouri	.01	.52	.58	.36	.07				.90	.01		T							.84				.40		.02				T.	.01		3.72
Downing	Mississippi	.02	.70	.75	.96	.33				.37			.67											.12	.05								3.97
Fayette||	Missouri	.27	.53		1.03	.16					1.28									.22				.36		.03							3.88
Fulton	do	.83	.23	.85	1.11	.03	.02				1.68			.02							1.39				.30		.05			.02	.10		6.63
Gorin	Mississippi	1.53	1.42		.97	.49				.19	.04		.35											.18									5.17
Hannibal***	do	1.47	.39	.12	.38	.12				.04			T.						T.	.23				.18		T.	.02				T.		2.95
Hermann||	Missouri	.92	.45	.76	.70	.06					.96										1.05		.05		.86		.04			.32	.34		6.51
Jefferson City||	do	.62	.37	.50	1.07						1.65									.05	1.35				32					.25	.20		6.38
Kirksville	Mississippi	.12	.75	.37	.48	.46				.62			.25							.05				.16	.07								3.33
Louisiana	do	.78	1.52		.72	.40				.05	T.						.01			.30	.02			.04	.30		T.		T.		.07		4.21
Macon||	Chariton	1.60	.08	1.00	1.15	.28	.06				1.52		.55	.07							.47				.30								7.08
Mexico||	Mississippi	1.05	.40	.70	.90	.05					.32	.02		T.							.45				.45								4.34
Milan||	Grand	.72		1.25	.63	.27	.20				.72		.08	.20							.15												4.22
Pacific||	Meramec	1.22	.67	.72	.44	.07	.05				.15			.05							.89	T.			.35		.01			.38	.42	.07	5.49
St. Catharine (near)	Grand																																....
St. Charles	Missouri	.36	1.63		.75					T.	.39								T.	.49	.20				.28				T.	.39	.55		5.04
St. Louis (1)***	Mississippi	.12	1.25		.35	.04				.02	.18		T.	.02			.01			.71				.26					.35	.24	.29		3.84
St. Louis (2)*	do	.15	1.24		.40	.05				.05	.14			.04			.02			1.06				.30					.45	.09	.30		4.29
Shelbina||	do	.41	.95	.72	.66	.05	.26				.47	T.		.26			T.				.25				.14		.02						4.19
Steffenville	do	.35	.70	.05	.60	.51				.15	T.		.20						T.	.22				.25									3.03
Union||	Meramec	.72	1.10	1.45	.75	.04					.36			.12							.98				.38		.03			.32	.46	.03	6.74
Unionville||	Chariton		1.15	.30	.70	.20				1.20	.05	T.	.40											.25									4.25
Warrenton	Mississippi	.18	.12		.69	T.				.20	.16									.81	.11		.04	T.	.42				T.	.41	.36		3.50
Keokuk, Ia.***	do	.88	.72	.26	.41	.54				.08	.04		.31						T.	.02		T.		.13	.02								3.41
Southeast Lowlands																																	
Benton	Mississippi				.61						.52														1.60		.03			.61	.09		3.46
Campbell||	St. Francis										.10	.11									.02				.62	.40	.04			.05	.89	.06	2.29
Cape Girardeau||	Mississippi					.50					.65										.15			.03	.82	.05	.02			.60	.46	.02	3.30
Caruthersville||	do				.55	.32					.32													.03	2.00		.06				.48	.25	4.01
Dexter||	St. Francis					.78					.27										T.			T.	1.69					.30	.46	.04	3.54
Doniphan	Black				1.57					.25	.07										.02			.21	.51					1.55	.35		4.53
Jackson	Mississippi				.51	.05					.61										.18				.83		.02			1.43	.12		3.75
Marble Hill	Mississippi				.51	.05					.65										.19				.86		.04			1.76	.19		4.25
Morehouse	do		T.		.50	.18					.20														1.41		.03			.26	.26		2.84
New Madrid||	do					1.13					.18	.17									.01				1.25	.27	.05			.02	1.20	.12	4.40
Parma	St. Francis				.51						.15													1.05						.42		.54	2.67
Patton	Mississippi				1.03	.06					.63										.69				1.16		.11		2.78	.13	.04		6.63
Poplar Bluff||	Black									.22													T.	1.12					.90	.57			2.81
Sikeston||	Mississippi					1.02					.14										.22			T.	1.42	.02				.10	.38	.04	3.34
Cairo, Ill.***	do		T		.84	.01				.02	.52	T.								.10	.01		T.	.78	.41	T.	.01		.01	.61	.11		3.43
Ozark Plateau.																																	
Arcadia||	St. Francis				.73	.61	T.			.69			T.				T.				.18				.41					1.66	.57	.07	4.92
Aurora	Neosho		.25		1.95					.02	T.													.23	T.		T.			.43	.30		3.18
Birchtree (near)	Black				1.28						1.16										.82				.82					3.30	.15		7.53
Bolivar	Osage	.10	.30	1.53					.50	.30	.15	.25	.01							.53	.02			.12	.07		.03			.46	.13		4.50
Caplinger Mills	Osage	.12	.75		2.00					1.40	.20		.12							.10				.42						.11			5.22
Dean	Neosho		.11		2.86	.01				.49	.09		.39										.11	.04					.11	.90	.27		5.38
Eldon||	Missouri	86	.56	1.01	.06					3.85										1.12				.73		.04			.19	.24			8.66
Farmington	St. Francis	.07			1.27	.10					.33						T.			.18				.02	.63		.03			2.05	.37		5.05
Fredericktown||	do		T.			.05	.88				.67				T	.03					.18				1.05	.14				2.00	.95	.15	6.10
Galena||	White										.70		.66							.18					.22		.03			2.15	.33		4.27
Gano	Meramec	.35			1.03	T.				.31	.64									T.	.10			T.	.34		.05			1.30	.47		4.59
Goodland	Black		.21		.92						.67														.75		.08			2.85	.22		5.70
Greenville	St. Francis				1.30						.43										.09				.96		.03			1.68	.48	.04	5.01
Hailey	White									.25															.20				.90				1.35
Hollister	do				1.50						1.30									.15										1.30			4.25
Jerome||	Gasconade																																....
Koshkonong	Black				1.21					.10											.62			.15	.41					2.00	.15		4.64
Lebanon||	Osage				1.00						2.20	.10		T.											.30					2.00	.90		6.50
Lockwood	do	.29	1.01	.12	2.12					1.34		.32												.10						.20			5.50
Mountain Grove||	White				1.07																.23				.28					1.30	.68		3.56
Neosho	Neosho		81	T.	1.94					.65	.07		.24										.10	T.	.10				T.		.12		4.03
Owensville||	Gasconade	.54	.29	1.54	.80	.10					1.52										1.38				.35					.47	.50		7.49
Rolla||	Meramec	.03		.82	.12					2.03			.06							.57				.48					.91	.47	.09		5.58
Seligman	Neosho																																....
Seymour (near)	White		T.		1.10	T.				.42	.52									.08			.52	T.		T.	.07		1.55		.55		4.81
Springfield***	do	T.	.05	1.86	.50					.46			T.							.08			T.	28		.01			.22	.37	.31		4.14
Steelville||	Meramec	.95	.98		.67	.05	.06				1.20			.05							.76		.05		.33					1.30	.50	.07	6.97
Stover||	Missouri	.16	.08	.45	1.12						1.43			T.							.93				.35			.05					4.57
Tuscumbia||	Osage	.06	.89	.26	1.30						2.86										1.26				.46		.04			.46	.42		8.01
Willow Sprgs.|| (near)	White				1.30	.32					.83		.02								.30			.01	.79					2.60	.30		6.47
Southwest Plain.																																	
Amoret	Osage	.65	2.33	.35	.70					.55	.55									1.60				.35									7.08
Appleton City	do	.05	.66	.47	.26	T.				1.60	.63		.01							.15				.15	.03		T.			T.	T.		4.01
Clinton	do	.10	.84	1.42						1.15	.35		.02							1.88				.35	.05								6.16
Concordia||	Missouri	.12		1.66	1.17						1.98									.28				.22									5.43
Harrisonville||	Osage		04	1.45	.88					.26	.60			.07							1.06				.29								4.65
Joplin*	Neosho	1.83	1.44	1.17	.18					.63	.05		.29				T			T.				.25					.35	.47	.02		6.68
Lamar||	do		1.30		1.25						.68			.46						T.					28		T.			.17			4.14
Lamonte	Missouri	.01	1.10	.70	.65					1.80	.10									1.00				.56	.01		.01				.04		5.98
Marshall	do	.01	.98	.07	.13	.08	.09	.08		1.30	.07									.20				.15	.07		.05						3.28
Nevada	Osage	.30	1.51	.24	.80	T				.40	.18		.05							T.				.27									3.75
Osceola||	do		1.14	.25	1.81						1.96										.19				.68					.08			6.11
Warrensburg	Missouri	.08	1.55	.21	.50	.05				1.11	.25		.01							.72					.07	T.							4.55
Warsaw||	Osage		.45		1.10					2.00	.50		T						.65														4.70
Waverly||	Missouri	.03	T.	1.55	.67	.25	T.			.50	.98										.18				.20		.15						4.51
Northwest Plateau.																																	
Albany||	Grand	.31	1.25		1.35																			.45						.24			3.60
Bethany	do	.02	1.15	1.43	.12	.15				.60	.02	T.	.07			T.			T.	T.			T.	.34			.02						3.92
Chillicothe||	do	.69	.08	1.17	.29	.25	.02			.82	.39	.01	T.	T.						T.	.07				.25		T.						4.04
Conception	Missouri	.10	1.31	1.66	.08	.10				1.15			.39											.39									5.21
Edgerton	do	T.	.85	1.37	.12	.26	T.			1.38	.13		.05							.11				.21	T.	T							4.48
Gallatin||	Grand	.50	T.	2.45	.70	T.				.20	1.00													T.	.30								5.15
Grant City	do	.20	.84	1.25	.08	.07				.35	T.		.52											.36									3.67
Kansas City***	Missouri	01	1.00	1.16	.28	.03				1.28	.01		.04							.44				.02		T.							4.27
Kidder||	Grand	.63	.37	1.87	.58	.09				.50	.30		.03											T.	.37		.08						4.82
King City	Missouri	.14	1.90	1.86	01	.15				.81	.05													.50		.03							5.48
Lexington||	do	.32	.05	1.89	.54	.34					2.52										.23												5.89
Liberty||	do																																....
Maryville||	do	.12	1.20	2.72	.13	.11				1.09			.07												.30								5.74
Oregon	do	.21	1.70	1.88	.02	.06				.98			.11											.66									5.62
St. Joseph***	do	.50	1.83	1.41	.01	.05				.50	T.		.05							T.				.47		T.							4.82
Tarkio	do		.48	.91						.41														.37									2.20
Trenton	Grand	.20	1.18	.55	.05	.11				.78	.04		.09						T.	T.				.24		.03							3.27

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for October, 1926.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	76	70	85	72	69	65	75	79	73	69	72	70	68	66	76	71	73	74	60	52	63	61	53	45	47	61	73	69	61	54	60	66.5
	Minimum	68	65	65	59	54	45	46	56	58	61	62	55	42	50	44	56	43	56	41	38	36	45	37	29	26	35	40	49	41	44	34	47.7
Columbia	Maximum	80	75	85	70	66	65	74	78	64	68	72	66	67	67	74	67	72	74	46	51	64	58	54	43	47	60	76	64	58	49	58	64.9
	Minimum	69	64	65	56	50	45	48	58	57	57	56	53	45	46	44	46	41	45	41	39	36	45	38	32	27	36	43	52	47	39	33	46.9
Fayette §§	Maximum	82	74	85	75	69	65	56	81	62	68	70	65	73	70	77	71	75	76	45	50	66	60	54	42	41	46	63	66	60	48	61	64.4
	Minimum	63	62	63	61	51	42	42	40	55	55	59	59	42	43	38	40	38	45	38	36	30	32	31	28	22	25	28	45	43	44	30	42.9
Hannibal	Maximum	80	71	86	71	66	63	69	80	67	69	72	66	67	63	72	65	68	70	48	47	59	57	52	43	48	56	74	67	58	51	56	63.9
	Minimum	66	65	64	57	49	47	44	59	60	62	61	53	47	46	42	48	42	45	41	38	37	39	35	32	29	36	40	54	45	38	32	46.9
Jefferson City §§	Maximum	80	77	85	73	68	50	76	78	66	70	70	67	66	67	72	68	72	76	48	50	63	57	52	35	47	49	75	68	56	50	48	63.8
	Minimum	64	65	65	63	54	46	45	50	56	58	60	61	46	45	46	48	41	44	43	40	35	42	36	33	27	34	39	48	48	45	34	47.1
Kirksville	Maximum	72	68	82	78	68	64	68	77	73	70	69	67	66	61	71	66	70	68	50	50	61	56	48	44	46	60	70	68	57	50	51	63.5
	Minimum	67	61	62	56	51	42	41	55	54	60	61	45	38	47	40	60	40	50	35	39	32	40	35	26	25	31	40	50	40	37	31	44.9
Louisiana	Maximum	76	80	86	80	73	65	68	82	70	70	72	68	68	66	72	65	68	72	62	50	61	55	54	47	48	58	72	68	58	53	56	65.9
	Minimum	65	63	63	65	52	44	38	54	54	58	60	55	44	44	38	50	38	56	38	42	32	45	32	34	27	34	35	52	45	40	27	45.9
Macon §§	Maximum	75	75	88	72	67	66	72	81	68	67	70	62	71	65	75	72	71	60	46	52	62	55	50	40	48	60	72	69	60	48	57	64.4
	Minimum	67	63	62	61	50	42	43	48	54	56	60	60	40	45	41	40	54	53	42	37	35	39	35	27	25	31	37	48	42	41	32	45.5
Mexico §§	Maximum	80	75	88	73	68	73	84	71	63	70	71	67	68	69	77	69	73	76	62	49	62	58	54	52	48	63	75	67	58	49	60	66.8
	Minimum	61	63	63	63	53	45	45	56	59	57	59	59	42	49	40	56	40	45	38	39	35	36	34	30	27	33	35	45	42	40	30	45.8
St. Catharine (near)	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Louis (1)	Maximum	87	84	85	76	67	66	69	79	74	69	73	71	68	73	72	71	65	77	54	50	59	60	60	43	48	55	70	75	56	49	58	66.5
	Minimum	68	66	66	62	53	49	49	58	60	59	62	55	51	54	50	50	48	48	43	44	39	50	41	37	33	40	39	55	49	40	37	50.2
Unionville	Maximum	76	76	80	76	67	66	70	76	70	73	68	67	66	62	72	67	66	67	55	52	66	60	50	42	46	60	70	66	60	50	53	64.4
	Minimum	66	66	62	56	50	42	40	55	56	60	62	46	36	45	42	50	40	54	34	40	35	40	35	26	25	35	40	45	36	33	30	44.6
Warrenton	Maximum	83	85	86	77	69	64	70	81	67	69	72	72	68	68	73	68	69	75	61	48	60	58	52	52	48	58	72	70	62	53	60	66.8
	Minimum	66	64	64	64	53	45	44	54	56	59	60	58	45	51	44	56	40	59	40	40	34	47	35	33	27	36	37	53	48	43	30	47.9
Southeast Lowlands.																																	
Campbell	Maximum	89	91	89	82	75	72	77	80	81	75	68	75	69	73	75	81	71	85	79	67	64	72	60	58	51	63	73	73	70	62	61	72.9
	Minimum	63	66	67	67	56	46	45	47	50	60	59	62	56	53	49	50	42	57	50	49	32	38	50	42	29	38	34	53	55	47	41	50.1
Caruthersville	Maximum	92	93	91	90	78	70	78	82	82	70	68	75	70	72	75	81	73	88	80	68	65	74	66	58	52	60	72	76	70	70	61	74.2
	Minimum	72	71	71	72	60	48	52	55	59	62	62	62	60	58	55	55	50	59	55	52	38	46	53	42	31	41	42	55	62	48	42	54.5
Doniphan	Maximum	87	88	87	74	71	69	74	76	77	71	68	70	65	72	72	78	80	83	76	67	62	67	61	55	65	69	70	71	71	62	64	71.7
	Minimum	56	64	68	65	53	44	44	53	52	60	58	60	53	52	48	50	42	45	50	46	32	41	29	39	28	29	31	45	48	34	36	47.0
Jackson	Maximum	91	89	88	85	72	68	75	80	81	71	69	70	70	72	73	79	80	83	71	61	61	68	59	60	49	57	69	73	70	54	59	71.2
	Minimum	64	65	63	66	53	42	40	49	55	57	60	51	55	47	42	43	39	52	47	45	30	42	44	38	27	37	31	49	43	44	33	46.9
Poplar Bluff	Maximum	91	92	90	80	77	77	80	82	80	76	69	72	74	75	77	82	74	88	79	70	66	71	60	51	50	70	75	71	67	57	66	73.9
	Minimum	66	64	64	71	54	44	43	47	48	58	57	61	54	52	46	48	40	52	48	44	31	38	48	42	27	36	33	44	53	48	36	48.3
Sikeston	Maximum	91	91	88	82	73	70	76	79	78	71	67	74	71	74	75	80	70	85	72	63	62	70	59	50	51	58	70	74	66	57	60	71.2
	Minimum	65	65	71	67	58	45	45	57	52	59	61	63	58	52	48	50	43	55	50	47	35	42	49	43	28	40	35	52	56	51	39	51.0
Cairo, Ill.	Maximum	88	88	87	81	71	68	73	76	77	68	67	72	68	70	72	78	66	81	71	60	60	68	56	49	47	57	67	71	68	55	57	68.9
	Minimum	69	72	72	66	56	50	53	58	61	60	61	64	58	55	53	55	48	57	51	47	40	47	49	39	33	42	42	55	55	47	40	53.4
Ozark Plateau.																																	
Arcadia §§	Maximum	86	85	83	74	69	69	72	76	75	69	67	64	67	71	73	73	68	77	67	53	61	61	54	42	46	63	69	70	50	46	62	66.5
	Minimum	63	64	65	65	53	44	39	45	51	54	57	57	52	47	41	45	39	42	46	42	29	33	36	38	27	29	30	33	45	44	32	44.7
Birchtree	Maximum	87	86	82	80	71	69	76	69	73	73	69	76	71	65	74	76	69	80	73	68	60	64	54	48	47	67	72	71	66	52	61	69.3
	Minimum	65	66	69	64	53	44	47	53	55	58	59	59	54	55	47	54	40	55	46	42	32	45	47	36	23	35	35	48	47	44	33	48.7
Eldon §§	Maximum	80	84	72	68	69	78	78	67	69	70	66	68	73	75	71	74	79	50	55	65	58	53	43	50	62	76	71	55	52	61	50	65.9
	Minimum	63	64	65	52	46	45	48	54	58	59	57	46	46	43	43	42	44	44	40	34	34	35	33	25	25	38	40	48	45	33	35	44.6
Farmington	Maximum	90	87	86	74	70	69	75	80	76	68	70	66	67	69	72	75	70	75	67	55	62	60	55	48	47	59	71	72	66	49	58	68.0
	Minimum	65	65	66	65	52	44	40	45	51	57	59	56	52	48	42	51	39	57	44	44	30	44	33	36	26	34	34	47	45	44	30	46.6
Hollister	Maximum	80	78	90	80	78	75	82	80	81	84	78	79	74	76	78	78	79	80	78	78	80	79	70	68	60	61	60	59	70	68	68	75.1
	Minimum	59	60	60	62	55	40	45	44	45	46	45	46	55	58	59	54	56	58	56	40	44	42	35	30	24	22	24	44	35	38	36	45.7
Koshkonong	Maximum	85	85	84	88	70	68	74	74	77	72	69	71	77	70	70	75	70	82	74	72	59	72	54	58	47	64	70	70	67	57	58	70.4
	Minimum	67	67	68	65	55	54	58	58	54	59	62	60	57	55	58	57	44	57	49	44	37	47	48	37	27	38	40	50	51	45	36	51.7
Lebanon §§	Maximum	83	84	86	74	68	69	78	76	70	68	70	69	70	71	75	74	73	78	70	56	66	60	54	42	50	65	76	77	50	51	..	[a]68.4
	Minimum	63	64	65	61	49	42	46	51	55	58	51	54	45	48	43	45	39	42	46	39	33	37	37	30	21	26	37	44	44	42	31	44.8
Mountain Grove	Maximum	83	81	84	82	75	67	69	70	63	70	72	67	72	70	71	73	75	80	81	73	60	61	60	53	42	57	64	73	72	68	57	69.2
	Minimum	65	65	67	62	50	44	47	53	55	57	56	57	50	52	47	51	41	49	48	40	34	41	45	35	23	33	41	51	44	43	35	47.8
Neosho	Maximum	85	84	83	78	69	74	79	75	75	72	79	79	73	71	73	73	78	80	80	67	67	64	60	57	66	65	73	72	64	52	60	71.8
	Minimum	69	63	67	60	49	41	47	55	60	62	56	55	53	56	54	57	43	63	57	38	36	43	39	35	25	37	37	60	47	44	31	49.6
Rolla	Maximum	85	84	83	77	65	65	75	75	70	68	69	69	67	68	72	70	70	67	69	50	62	59	52	45	45	61	72	71	67	50	58	66.5
	Minimum	69	66	65	64	50	44	45	55	58	54	57	57	48	54	45	57	40	58	45	40	34	47	37	34	25	34	43	55	45	42	31	48.3
Springfield	Maximum	84	84	82	70	65	68	76	74	68	71	70	68	68	69	70	71	74	76	73	57	63	56	53	41	52	62	74	71	53	50	57	66.8
	Minimum	67	65	62	58	51	47	52	55	60	60	59	56	51	56	52	53	46	57	45	41	39	45	41	31	28	38	45	53	45	42	37	49.6
Southwest Plain.																																	
Amoret	Maximum	80	76	80	70	69	71	80	77	71	71	75	73	68	69	74	72	78	77	68	62	68	68	56	47	60	65	75	70	61	57	60	69.3
	Minimum	67	63	65	55	49	43	50	53	60	60	58	48	42	50	43	56	48	55	54	38	36	45	35	31	26	37	39	42	41	44	31	47.2
Appleton City	Maximum	80	73	81	72	67	72	79	79	79	68	74	68	69	69	76	72	78	75	64	58	67	60	53	44	54	66	75	67	61	55	60	68.2
	Minimum	67	65	64	57	52	46	50	55	58	61	60	56	44	54	46	58	46	60	45	39	37	47	38	32	28	37	41	52	48	44	35	49.1
Clinton	Maximum	83	83	81	75	69	73	81	80	73	69	74	70	70	70	77	73	73	78	69	57	67	69	67	45	54	60	75	67	60	60	60	69.7
	Minimum	67	65	68	58	50	45	57	55	59	60	68	55	42	52	45	58	48	59	44	40	38	47	37	32	27	36	46	50	48	45	35	49.5
Harrisonville §§	Maximum	78	71	79	72	67	70	78	76	63	68	73	61	67	67	75	72	76	76	49	59	66	59	53	46	55	68	74	67	60	50	61	66.3
	Minimum	65	61	64	54	49	43	44	52	56	57	57	59	41	42	48	50	45	48	43	38	37	38	40	28	27	32	43	45	45	41	34	46.0
Lamar §§	Maximum	89	80	81	72	69	73	80	79	69	69	77	69	70	70	75	73	78	78	71	60	68	57	54	44	58	67	76	70	57	56	62	69.4
	Minimum	68	65	67	62	51	45	46	53	58	62	57	59	50	50	52	53	48	48	52	40	39	40	39	35	29	33	41	47	49	47	36	49.1
Lamonte	Maximum	82	70	85	73	68	70	80	80	64	69	74	68	74	72	80	74	77	79	56	57	69	63	56	45	53	66	77	67	62	53	64	68.6
	Minimum	67	62	64	56	49	48	42	56	57	59	59	53	41	53	44	53	42	55	42	37	35	43	36	29	24	34	41	49	44	42	34	46.8
Marshall	Maximum	82	68	87	76	72	68	74	80	74	71	..	68	69	67	72	68	78	73	67	..	64	47	55	42	53	52	73	69	68	56	59	[b]67.3
	Minimum	67	61	62	52	53	42	48	..	61	60	..	55	40	46	48	43	40	52	40	..	37	41	35	29	28	32	36	49	46	43	32	[c]45.6
Nevada	Maximum	80	75	81	69	67	70	79	77	69	68	75	71	68	70	74	70	78	75	66	57	67	62	52	43	58	65	75	67	60	55	60	67.8
	Minimum	66	63	64	56	52	44	51	56	61	61	60	56	46	51	47	49	47	62	48	40	40	47	36	37	28	40	43	55	49	44	35	49.6
Warrensburg	Maximum	79	73	82	70	70	67	79	79	75	68	73	70	69	65	76	73	76	77	70	53	65	63	53	42	50	64	75	72	63	56	60	68.0
	Minimum	67	63	65	57	50	45	50	58	58	61	61	54	42	53	46	57	45	59	43	39	39	45	42	30	29	35	45	50	45	45	37	48.9
Warsaw	Maximum	85	78	80	84	69	70	80	78	75	69	73	68	70	73	70	76	76	79	65	68	64	63	55	53	55	66	78	71	65	61	60	70.2
	Minimum	70	65	63	59	52	44	46	65	59	58	60	55	44	53	56	43	42	46	39	33	34	47	35	30	25	36	35	48	50	35	38	47.3
Northwest Plateau.																																	
Chillicothe §§	Maximum	77	70	82	72	64	69	76	80	63	69	72	58	70	66	75	64	75	71	50	56	66	58	46	44	46	64	75	68	60	49	59	65.0
	Minimum	62	61	62	56	51	45	44	51	51	57	61	53	37	38	42	48	41	48	37	38	34	44	34	27	26	31	39	45	40	40	33	44.4
Grant City	Maximum	74	67	78	71	64	65	73	76	70	69	69	66	66	61	71	68	72	66	54	53	63	60	48	42	47	63	72	64	59	52	58	63.9
	Minimum	61	58	63	50	51	43	45	55	52	61	60	46	39	45	41	53	44	50	35	37	36	38	37	25	26	37	41	41	42	33	34	44.6
Kansas City	Maximum	73	69	80	72	64	69	79	77	65	68	74	65	68	65	73	68	78	72	48	54	68	58	50	43	54	66	75	66	55	49	59	65.3
	Minimum	65	64	64	55	52	48	54	58	58	61	63	49	46	53	52	54	48	46	42	43	43	47	39	31	35	44	49	51	46	42	39	49.7
Kidder §§	Maximum	74	68	79	70	62	65	74	76	65	69	70	59	65	61	72	64	73	69	49	65	60	53	47	41	47	61	71	65	56	48	56	63.0
	Minimum	60	60	60	52	48	41	44	51	54	55	60	50	38	44	42	46	41	47	36	36	35	42	37	25	25	28	40	44	39	37	32	43.5
Lexington §§	Maximum	75	67	79	71	65	68	77	77	69	67	72	69	67	67	74	69	74	72	60	53	64	60	49	45	50	64	73	67	60	52	58	65.6
	Minimum	65	61	65	58	52	45	47	56	58	62	62	59	40	52	44	55	44	57	41	40	37	46	37	29	27	37	42	53	45	43	37	48.3
Maryville	Maximum	75	67	74	71	65	68	74	74	70	67	67	77	68	63	73	67	74	68	56	53	68	60	47	40	48	65	77	64	57	52	59	64.8
	Minimum	60	58	63	54	48	43	46	55	57	60	61	46	38	45	46	52	44	50	37	38	38	41	38	26	28	36	43	48	42	36	32	45.5
Oregon	Maximum	80	71	72	74	65	72	80	80	71	75	70	69	71	71	72	70	77	72	61	60	68	62	51	48	56	69	80	77	58	53	60	68.2
	Minimum	60	51	64	59	50	43	49	58	59	62	61	48	41	45	48	53	47	51	39	39	41	42	43	26	31	41	47	48	43	39	35	47.2
St. Joseph	Maximum	75	69	80	71	61	67	79	78	67	70	71	66	68	65	72	66	77	69	55	54	67	57	46	43	52	65	78	66	58	50	59	65.2
	Minimum	64	61	64	55	50	46	51	59	59	62	64	47	41	49	49	49	48	44	41	41	42	45	38	28	32	39	50	50	46	41	37	48.1
Trenton	Maximum	72	72	77	69	74	68	69	73	65	69	71	65	60	58	70	65	68	64	56	54	62	56	48	40	45	59	62	62	56	56	57	62.6
	Minimum	63	64	64	58	54	45	52	60	59	58	60	51	42	45	45	54	58	51	40	39	37	42	37	28	28	36	42	47	43	40	35	47.6

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 12-6-26—890.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXX. COLUMBIA, MO., NOVEMBER, 1926. No. 11.

GENERAL SUMMARY.

There were a few pleasant days during November, 1926, in Missouri, but the month was mainly cold, the outstanding features being persistently low temperatures, excessive cloudiness, unusually heavy snows, and a few severe wind storms in the southern part of the State on the 25th. The snowfall was about four times more than the November normal amount, and for many of the central and east-central counties, probably the heaviest of record.

The month was mainly unfavorable for outdoor work in the eastern half of the State, but moderately favorable in the western. Much corn is still in the fields, especially the lower lands. The wheat crop, however, has started off well. The weather somewhat handicapped the highway work, but rather favored fuel and heavy clothing lines of business.

TEMPERATURE.

The monthly mean temperature for the State, 66 stations reporting, was 39.6 degrees. This value is nearly 5 degrees colder than the normal, about 3 degrees colder than last November and about 7 degrees colder than the same month in 1924. The temperature deficiency was about the same for all parts of the State, differing from north to south less than 1 degree. Only about two days in each decade were warmer than the normal. The warmest day was the 25th, when summerlike weather obtained, especially over the southern half. The coldest period probably prevailed from the 19th to the 22d; on the 21st, and 22d minimum temperatures ranged from near zero to 10 degrees or more above; and there were ten or more days with real winter cold, days on which the temperature did not rise above 32 degrees in any hour of the 24.

PRECIPITATION.

The average precipitation for the State, 100 stations reporting, was 2.98 inches, or about 0.63 inch more than the 56 years' average. The northwestern plateau was the driest section, while practically all of the remainder of the State was wetter than usual, the largest excess occurring in the southeastern lowlands. As a rule, the most persistent precipitation period covered the third week---13th to 21st. The first week, as well as the 10th, 11th, and 12th, and a few days during the last of the month, were mostly free from much precipitation.

The snowfall was the heaviest of record for most of the State, particularly the east-central sections; 16 inches occurred at Warrenton, and 10 to more than 13 inches at St. Louis, and Rolla, as compared with the past heavy fall of 13 inches. For the State as a whole, however, 5.0 inches fell in 1906, 4.3 inches this month. The average for November is less than one inch. It is likely that the snow of the 17th, and 20th-21st, broke previous 24 hour snow records at most central-east stations. There was no snow this month in the extreme Southeast, and it was hardly appreciable on the western border from Cass to Newton County.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---On the 22d, and 25th.

Halos, lunar.---13th, 16th, 21st, 23d, 24th, 28th, and 30th.

Halos, solar.---2d, 6th, 10th, 12th, 13th, 20th, 22d, 23d, 27th, and 30th.

Sleet.---8th, and 26th.

Thunderstorms.---8th, 12th, 13th, 14th, 17th, 25th, 26th, 28th, and 29th.

STORM NOTES.

Toward the close of a near summer like day, severe thunder and wind storms, some hail, and at least two tornadoes—associated features of a well developed low pressure—occurred over the southern half of Missouri on November 25th

Between 4 and 5 p. m. severe thunder with high wind and some hail began in the western part of Missouri from about Barry to Henry Counties, thence across the State to the Mississippi River, crossing into Illinois between 7 and 8 p. m. About 5 p. m. a tornado, with the usual funnel-shaped cloud formation, developed near and struck the village of Competition near the southern border of LaClede County. The storm advanced northeastward, passing over the village of Big Piney, Pulaski County, and the hamlet known as Vida, Phelps County, where, apparently, it arrived at 6;30 p. m., more, however, as a straight wind, so reported. The path was between 45 and 50 miles long. At Competition the path of marked destruction was from 100 to 150 yards wide; at Big Piney, one-fourth mile, and at Aida, about one-half mile wide. At Competition one person was killed, and one seriously injured; property, consisting of buildings, household effects, livestock, etc, damaged to the amount of $25,000; crops, $1,000. At Big Piney, no person was killed, but 10 seriously injured. The damage to buildings and tangible property was about $3,000; crops about $200. At Vida no one was killed or injured. Damage to buildings, household effects and livestock was estimated around $10,000; crops $200

A little later, at about 6:20 p. m., and approximately 100 miles farther south, a tornado struck the town of Brandsville, Howell County, from thence going northeastward it struck the villages of Rover and Thomasville, Oregon County, about seven and fourteen miles, respectively, from Brandsville. The storm traveled the distance from Brandsville to Thomasville in ten minutes. Beyond Thomasville all the way to Jackson, Cape Girardeau County, high winds were reported but no material damage. The storm's path was from one-fourth to one-half mile wide, narrowing down for short distances to one hundred yards. At Brandsville, three persons were killed and thirty-five injured (according to press reports one of the injured died a few days after the storm). The damage to buildings and tangible property was put at $75.000; crops $25,000; at Rover, none killed, five injured; property damaged, $8,800; crops, $5,000; at Thomasville, none killed, none injured; damage $5,000 and $100, respectively. At Jackson, Cape Girardeau County some out buildings, barns, etc. were blown down, damage about $300. Total lives lost in the two storms, five; injured fifty-three. Total damage to property, other than crops, $127,100; crops, $31,800. Hail was a conspicuous feature of the storms, but the stones were small, and caused no damage.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.03	80	70	155	51	7,264	10.1	31	nw.	26
Hannibal	30.02	78	..	...	..	7,679	10.7	58	se.	14
Kansas City	30.04	75	64	166	55	9,563	13.3	48	n.	9
St. Joseph	30.03	80	68	146	49	7,913	11.0	38	nw.	26
St. Louis	30.05	77	67	117	39	11,032	15.3	60	nw.	26
Springfield	30.05	85	66	142	46	9,292	12.9	39	s.	25
Cairo, Ill	30.10	80	62	...	..	7,478	10.4	46	sw.	25
Keokuk, Iowa	30.03	76	68	[illegible]	36	6,967	9.7	35	sw	25

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COMPARATIVE DATA FOR NOVEMBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	41 6	−2.0	87	15	3.26	+0.94	.....	.....	11	....	.....	.....
1889	39.9	−3.7	73	8	3.43	+1.11	.....	.....	7	....	.....	.....
1890	46 5	+2.9	80	20	2.31	−0.01	.....	.....	5	....	.....	.....
1891	39.6	−4.0	82	− 2	3.60	+1.28	.....	.....	5	....	.....	.....
1892	40.1	−3.5	79	9	2.60	+0.28	.....	1.0	6	11	7	12
1893	40.9	−2.7	79	− 1	1.54	−0.73	4.86	0.3	4	14	9	7
1894	41.0	−2.6	80	3	1.58	−0.74	2.20	T.	4	15	9	6
1895	41.6	−2.0	82	2	3.37	+1.05	2.98	3.2	8	10	7	13
1896	42.3	−1.3	82	5	2.18	−0.14	4.00	0.2	6	11	7	12
1897	43.4	−0.2	82	− 3	2.40	+0.08	3.39	T.	6	13	8	9
1898	39.9	−3.7	79	− 8	2.28	−0.04	2.75	2.3	6	14	8	8
1899	49.5	+5.9	82	16	1.90	−0.42	2.66	0.2	7	11	9	10
1900	43.7	+0.1	84	7	2.58	+0.26	4.55	0.2	6	15	7	8
1901	43.6	0.0	84	9	1.38	−0.94	1.90	0.3	4	17	7	6
1902	50.1	+6.5	85	18	3.62	+1.20	2.14	0.4	9	8	9	13
1903	40.9	−2.7	79	2	1.24	−1.08	2.44	1.1	5	13	8	9
1904	46.3	+2.7	83	11	0.22	−2.10	0.68	T.	2	21	5	4
1905	45.8	+2.2	83	2	1.94	−0.38	2.49	T.	6	18	6	6
1906	42.5	−1.1	88	− 3	2.60	+0.28	3 60	5.0	8	12	6	12
1907	43.8	+0.2	88	5	2.52	+0.20	3.00	T.	4	19	4	7
1908	47.6	+4.0	87	9	4.14	−1.82	4.00	0.2	8	15	7	8
1909	53.6	+10.0	87	11	4 43	+2.11	6.18	0.4	8	12	7	11
1910	42.0	−1.6	83	11	0.38	−1.94	0.70	0.1	3	15	8	7
1911	39.1	−4 5	93	− 3	2.55	+0.23	2.15	1.1	7	13	6	11
1912	45.9	+2.3	88	12	1.52	−0.80	2.37	0.1	3	20	5	5
1913	51.7	+7.4	80	11	2.73	+0.35	2.50	T.	7	10	8	12
1914	48.6	+4.0	89	2	0.65	−1.84	1.90	0.1	3	19	6	5
1915	49.5	+4.9	87	12	2.76	+0.33	2.62	0.1	5	16	7	7
1916	49.6	+5.9	85	3	2.49	+0.14	2.53	0.1	4	19	4	7
1917	46.1	+1.5	80	8	1.05	−1.46	3.26	T.	3	14	5	11
1918	44.9	+0.5	85	12	3.18	+0.79	4.60	1.2	6	15	4	11
1919	42.2	−2.2	78	2	3.62	+1.40	3.36	1.0	6	15	5	10
1920	40.9	−3.5	82	6	1 21	−1.09	1.89	T.	6	12	6	12
1921	45.6	+1 2	84	10	2.82	+0.40	4.29	0.4	5	13	7	10
1922	47.8	+2.9	84	15	3 82	+1.45	3.40	T.	7	16	6	8
1923	45.1	+0.6	79	14	2.15	−0.20	2.30	3.0	6	15	6	9
1924	46.7	+2.2	88	4	1.72	−0.63	1.68	0.5	4	15	8	7
1925	42.8	−1.7	80	− 2	2.99	+0.64	3.20	2.0	6	16	6	8
1926	39.6	−4.9	78	0	2.98	+0.63	2.25	4.3	7	11	7	12

Climatological Data for November, 1926.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	40.2	− 1.3	72	25	3	22	39	2.55	+0.58	0.87	6.0	7	12	3	15	se.	O. K. Benecke
Clifton Hill	Randolph	731	26	38.4	− 5.4	70	25	1	22	39	3.12	+1.21	0.90	4.8	10	6	8	16	......	Dr. A. J. Bradsher
Columbia	Boone	748	35	39.4	− 3.9	71	25	9	22	37	2.38	+0.07	0.85	7.7	11	7	8	15	nw.	U. S. Weather Bureau
Downing	Schuyler	878	4	37.6	......	67	6	14	10†	32	2.36	+0.73	0.66	1.0	8	7	5	18	s.	E. E. St. Clair
Fayette	Howard	661	45	36.3	− 6.0	71	25	4	22	41	3.51	+1.51	1.48	6.9	6	..	..	..	......	J. D. Settle
Fulton	Callaway	818	37	38.2	− 6.3	69	26	2	22	38	2.43	+0.18	0.75	8.0	12	13	7	10	......	Chamber of Commerce
Gorin	Scotland	700	38	....	......	..	..	..	..	..	2.62	+0.66	1.04	1.1	6	2	13	15	nw.	J. W. Pulliam
Hannibal	Marion	534	33	39.0	− 3.1	66	6	12	22	31	3.49	+1.54	1.30	9.8	13	7	8	15	nw.	U. S. Weather Bureau
Jefferson City	Cole	557	37	39.4	− 4.7	70	25	12	22	38	2.83	+0.56	1.05	8.9	10	14	3	13	s.	Miss Emma Swift
Kirksville	Adair	969	36	37.3[a]	− 3.2	68	6	8	21	36	3.41	+1.65	0.88	4.3	9	10	1	19	nw.	Prof. J. S. Stokes
Louisiana	Pike	469	31	40.8	− 3.4	66	6†	4	22	34	4.85	+2.57	1.10	12.1	8	17	4	9	s.	J. T. Farrell
Macon	Macon	875	26	37.6	− 5.8	67	25	5	21	38	2.40	+0.47	1.20	4.0	7	14	6	10	nw.	W. C. Brown
Mexico	Audrain	800	36	37.8	− 5.2	70	25	6	22	40	2.15	−0.17	0.64	7.8	8	16	0	14	w.	Mrs. Abbie Snoddy
St. Catharine(near)	Linn	800	14	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	.....	Mathias Schoch
St. Charles	St. Charles	456	37	39.8	− 5.7	69	6	7	22	35	2.64	+0.10	0.65	10.7	9	10	8	12	nw.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	40.4	− 5.0	67	6	17	22	33	2.71	−0.17	1.02	10.4	11	10	6	14	sw.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	40.2	− 6.3	66	6†	18	22	33	3.26	+0.95	1.13	13.2	11	4	7	19	se.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	..	..	..	2.38	+0.30	1.04	2.5	12	..	..	..	.....	J. C. Jewett
Steffenville	Lewis	650	27	39.6	− 4.2	68	6†	7	21	33	3.69	+1.76	1.60	5.0	9	11	12	7	s.	Frank Hall
Unionville	Putnam	1,062	32	36.8	− 3.4	66	6	5	21	32	1.35	−0.47	0.55	1.5	6	10	7	13	n.	Geo. W. Davis
Warrenton	Warren	816	43	39.8	− 3.1	68	6	12	22	38	4.16	+1.57	1.40	16.0	11	9	6	15	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	37.8	− 3.3	66	6	15	21	29	3.11	+1.26	1.32	6.3	9	5	10	15	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	38.8	− 4.4	72	25	1	22	41	2.92	+0.79	1.65	7.0	9	10	6	14	nw.	
Southeast Lowlands.																				
Benton	Scott	340	0	....	......	..	..	..	..	..	4.38	......	1.42	0	9	..	..	..	....	E. R. Tirmenstein
Campbell	Dunklin	314	0	44.1	......	70	25	20	11	33	4.29	......	0.98	0	8	11	11	8	n.	Jeff. King
Caruthersville	Pemiscot	265	29	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..		John T. Markey
Doniphan	Ripley	344	21	42.3	− 5 3	68	25	14	22	34	5.38	+2.26	1.95	T	5	14	9	7	nw.	W.W. Martin
Jackson	Cape Girardeau	428	34	41.4	− 5.3	68	14	12	22	38	4.03	+0.90	0.84	1.4	10	8	4	18	n.	John G. Putz
Marble Hill	Bollinger	470	30	41.4	− 3.0	68	6‡	11	22	38	5.07	+1.90	1.12	1.6	9	15	4	11	n.	R.A, DeWitt
Morehouse	New Madrid	289	24	....	......	..	..	..	..	..	3.67	+0.02	0.79	0.2	10	10	10	10	sw.	John A. Spence
Parma	New Madrid	281	4	....	......	..	..	..	..	..	4.91	......	1.50	0	6		..	..	.....	H. W. Kendall
Patton	Bollinger	605	16	....	......	..	..	..	..	..	4.62	+2.39	1.34	1.0	10	..	..	..		S. P. Presnell
Poplar Bluff	Butler	329	21	43.5	− 3.9	71	25	13	22	39	4.21	+0.95	1.72	T.	6	16	5	9	w.	J. H. Wolpers
Sikeston	Scott	318	20	41.4	− 6.0	71	26	18	22	29	4.76	+1.11	1.80	0.5	10	14	4	12	sw.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	359	50	43.2	− 4.1	71	25	24	10	33	4.49	+0.47	1.73	0.5	10	6	10	14	s.	U. S. Weather Bureau
Section means and	extremes	....	..	42.5	− 4.6	71	25†	11	22	39	4.53	+1.25	1.95	0.5	8	12	7	11	n.	
Ozark Plateau.																				
Arcadia	Iron	926	44	38.0	− 6.0	68	6	9	22	42	3.35	−0.27	1.31	2.9	8	18	2	10	nw.	Arcadia College
Aurora	Lawrence	1,370	..	42.5	− 3.5	72	25	16	22	34	2.39	−0.40	1.01	3.0	6	15	4	11	nw.	W. T. Troughton
Birchtree (near	Shannon	1,000	30	42.0	− 4.5	69	6	13	22	39	3.07	+0.18	1.23	7.0	6	14	5	11	nw	V. H. Kirkendall
Bolivar	Polk	1,071	31	42.2	− 4.6	68	6	17	20	36	2.37	−0.16	1.25	0.5	5	11	10	9	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	74	25	..	..	..	2.73	−0.31	1.22	2.0	6	21	0	9	w.	H. E. Dean
Eldon	Miller	934	29	39.0	− 6.2	72	25	9	20	40	2.48	+0.27	1.14	3.3	9	8[a]	16[a]	5[a]	sw.	E. H. Shepherd
Farmington	St. Francois	918	14	39.2	− 5.1	70	6	10	22	39	3.05	−0.91	1.08	4.0	10	8	15	7	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	39.6	− 7.2	69	25	12	20†	37	4.48	+2.17	1.68	9.4	8	11	9	10	nw	A. C. Leach
Goodland	Iron	1,000	31	39.6	− 5.0	70	6	4	22	45	2.48	−0.41	1.10	8.0	7	12	8	10	n.	F. M Adams
Greenville	Wayne	381	3	38.9[b]	......	..	..	13	22	..	4.89	......	2.00	0.2	6	12[b]	1[b]	9[b]	n.	Wm. P. Owens
Hailey	Barry	1,350	0	....	......	..	..	..	..	..	3.32	......	2.00	7.0	4	10	8	12	w.	A. W. Madison
Hollister	Taney	735	38	40.2	− 8.0	75	24	3	21	48	2.62	−0.16	2.00	7.0	2	16	5	9	nw.	Mrs. W. P. Chapman
Koshkonong	Oregon	958	24	44.6[a]	− 4.8	70	25	21	10†	43	4.52	+1.50	1.60	T.	6	16[a]	5[a]	8[a]	s.	R. M. Hitt
Lebanon	Laclede	1,265	37	38.6	− 7.4	70	25	10	10	45	3.77	+1.23	1.45	8.0	7	11	6	13	nw.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	40.0	− 7.7	68	25	18	22	26	2.63	+0.42	1.54	0.5	4	14	4	12	nw.	C. S. Crow
Mountain Grove(near)	Wright	1,463	24	40.0	− 6.6	69	25	11	22	35	4.59	+2.16	1.57	7.0	9	14	8	8	sw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	43.9	− 3.3	73	7†	13	22	38	3 73	+0.67	1.75	0.5	6	17	5	8	nw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	40.2	− 4.7	70	25	11	22	39	4.47	+2.16	0.92	13.2	10	14	7	9	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	42.8[a]	− 4.4	73	25	15	19	36	3.49	+1.13	1.09	8 0	5	11[a]	7[a]	11[a]	sw	Floyd E. Fawver
Seymour (near)	Webster	1,642	19	42.2	− 3.9	70	25	1	22	48	3.88	+1.55	1.41	10.0	6	15	8	7	nw.	Ira H. Hailey
Springfield	Greene	1,350	37	40 5	− 5.2	70	25	17	22	31	2.96	+0.32	1.30	7.6	10	13	5	12	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	40.7	− 5.4	75	24	1	22	48	3.39	+0.59	2.00	5.2	7	13	8	9	nw.	
Southwest Plain.																				
Amoret	Bates	831	18	39.2	− 6.3	72	25	12	27	42	1.69	+0.03	0.96	0	3	13	6	11	s	Andrew Rood
Appleton City	St. Clair	853	31	41.8	− 4.3	73	25	17	22	38	1.58	−0.55	0.78	T.	6	11	13	6	sw	W. G Bigelow
Clinton	Henry	765	32	42.3	− 5.0	73	25	15	21	40	3.18	+1.30	1.23	0.5	7	9	10	11	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	38.5	− 3.9	71	25	12	21	42	0.97	−0 98	0.36	T.	5	6	0	24	se.	John H. Patterson
Lamar	Barton	980	38	41.4	− 5.2	73	25	17	22	40	3.20	+0.96	2.25	0	5	15	6	9	nw.	Jesse A. Mann
Lamonte	Pettis	867	24	40.2	− 4.2	74	25	9	21	44	2.81	+0.91	1.18	1.4	10	11	12	7	sw.	J. E. Wheeler
Marshall	Saline	779	36	38.9[c]	− 6.7	78	25	3	22	48	3.37	+1.29	1.11	3.5	8	14[c]	3[c]	10[c]	nw	Dr W. H. Black
Nevada	Vernon	862	32	42.8	− 1.6	74	25	19	21†	41	2.23	+0.35	1.45	0	2	17	5	8	s.	George A. Kaupp
Warrensburg	Johnson	878	38	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	L B. Johnston
Warsaw ††	Benton	687	25	43.0	− 4.5	70	6	15	22	47	4.90	+2.49	1.80	T.	5	22	7	1	w.	Everett Martin
Section means and	extremes	.....	..	40.6	− 4.6	78	25	3	22	48	2.38	+0.41	2.25	0.7	6	12	7	11	sw.	
Northwest Plateau.																				
Bethany	Harrison	916	33	37.5[a]	− 5.4	69	6	0	21	37	0.77	−1.00	0.25	3.0	5	10[a]	9[a]	10[a]	nw.	M. H. Moulton
Chillicothe	Livingston	779	16	36.3	− 6 3	71	25	4	21†	42	1.86	−0.47	0.54	6.5	5	11	7	12	nw.	Wm. J. Olenhouse
Conception	Nodaway	980	36	36.8	− 4.6	70	6	1	21	33	1.22	−0.14	0.51	5.0	5	7	11	12	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	38.0[e]	......	68	6	4	22	39	0.85	−0.62	0.43	2.4	7	16	2	12	n.	Fred L Stiff
Grant City	Worth	1,134	21	36.0	− 6.4	68	6	3	21	34	1.07	−0.54	0.46	4.0	5	13	7	10	nw.	W. P. Spillman
Kansas City	Jackson	963	36	40.4	− 3.3	70	25	14	21	35	1.08	−0.77	0.81	1.1	9	11	8	11	nw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	34.6	− 7.8	68	6†	1	21	38	1.31	−0.53	0.40	5.2	6	10	6	14	nw	Linn Terry
King City	Gentry	1,095	0	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..		D. B. Oliver
Lexington	Lafayette	688	40	40.1	− 3.9	71	25	10	21	37	1.45	−0.40	0.71	4.0	5	11	7	12	nw.	Edwin G Loomis
Liberty	Clay	859	35	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..		Doran H. Coffman
Maryville	Nodaway	1,169	35	36.4	− 2.6	72	6	9	22	39	0.94	−0.71	0.40	3.5	5	11	1	18	n.	J. R. Brink
Oregon	Holt	1,048	69	38.8	− 1.5	72	6	4	21	36	1.41	−0.28	0.41	3 0	7	15	7	8	nw.	Mina Wright
St. Joseph	Buchanan	967	17	38.8	− 5.1	71	6	10	21	31	1.08	−0.38	0 46	2.1	8	13	4	13	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	22	32.4	− 8.2	59	6	3	21	26	1.71	+0 26	0.74	8.0	7	10	3	17	nw	Albert Volker
Trenton	Grundy	822	29	37.2	− 5.2	63	7	8	21	31	1.36	−0 44	0.40	4.0	7	11	9	19	s.	W. H. Estes
Section means and	extremes	.....	..	37.2	− 5.0	72	6	0	21	42	1.24	−0.46	0.81	4.0	6	11	6	13	nw.	
State means and	extremes	.....	..	39.6	− 4.9	78	25	0	21	48	2.98	+0.63	2.25	4.3	7	11	7	12	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b], represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem. R. F. D No. 5. ‡ Indicates plus.

Daily Precipitation for November, 1926.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri								.03	.50					.85	.05	.03		T.			.30					.33			.10			2.19
Brunswick‖	Grand								.15	.55					.87	.10	.13					.27					.48						2.55
Clifton Hill	Chariton.								.58	.60				.16	.90	.10	.02	T	T.		.05	.35					.34		.02				3.12
Columbia***	Missouri			T.					.50	.07				.41	.45	.10		.20	T.		.32	.03				.10	.03		.17				2.38
Downing	Mississippi			.06					.16	.40				.37	.66	.06		T.	.03								.62						2.36
Fayette‖	Missouri									.95					1.48	.08		.20				.35				.45							3.51
Fulton	do								.08	.40				.03	.75	.04	.10	.17	.20	.10		.35					.07			.14			2.43
Gorin	Mississippi			.04					.93					1.04		.10		.11									.40						2.62
Hannibal***	do			.02					1.22	.09			T.	.91	.25	.07		.26	.05		.11	.05				.24	.04		.18				3.49
Hermann‖	Missouri								.05	.68				.04	.70	.52	.10	.04	.10			.10					.46			.14			2.93
Jefferson City‖	do								.25	.45				.05	1.05		.07	.05	.45	T.		.07					.12			.27			2.83
Kirksville	Mississippi			.12					.50	.60					.62	.16		T.	.15		.20	.18					.88						3.41
Louisiana	do			T.					.55	.65				.50	.85	.20		.80	T.			.20					1.10						4.85
Macon ‖	Chariton								.16						1.20	.20	.10		.08			.28					.38						2.40
Mexico ‖	Mississippi									.07				.09	.64		.11		.30			.40					.30			.24			2.15
Milan ‖	Grand				.20				T.	.35				.20	.70				.25			.30					.75						2.75
Pacific‖	Meramec									.42				T.	.20	.58	.12	.40	.60				.27				.28			.26			3.13
St. Catharine(near)	Grand																																....
St. Charles	Missouri			T.					.10	.05				.10	.58	.20		.65				.42					.25			.29			2.64
St Louis (1)***	Mississippi			.01					.20	T.			T.	.01	1.01	.06		.71	.01		.30	.07				.13	T.		.20				2.71
St. Louis (2)*	do			.01					.26	T.			.04	.04	1.13	.07		1.09			.03	.28				.11	T.		.20				3.26
Shelbina ‖	do			.02	.04					.46				.03	1.04	.01	.03		.14			.25					.33	.01	.02				2.38
Steffenville	do			.15					.40	.10	T.			.40	1.60	.05	T.	.14	T.	T.	T.	.15					.70						3.69
Union‖	Meramec								.02	.42	.02			.03	.27	65	.12	.41	.70			.24					.75			.18			3.81
Unionville ‖	Chariton		T.	T.					T.	.20				.15	.40	T.			.05			.10					.45						1.35
Warrenton	Mississippi			T.					.33	.40				.07	1.40	.04	.05	1.00	T.		.04	.30					.38		T.	.15			4.16
Keokuk, Ia.***	do	T.	T.	.05					.55	.14				1.11	.45	.06		.48	T							.18	.09		T.				3.11
Southeast Lowlands																																	
Benton	Mississippi								.45	1.42					.25	.75	.03	.46				.08					.63			.31			4.38
Campbell‖	St. Francis								.36	.22					.83	.70		.33				.01					.86			.98			4.29
Cape Girardeau‖	Mississippi								.03	1.42	.02	T.				1.12	.02	.28	.15			.04				.02	.60			.32			4.02
Caruthersville ‖	do																																....
Dexter‖	St. Francis								.16	.50					T.	1.34	T.	.25	T.			.09					1.05						3.39
Doniphan	Black									.32					1.95			.55	T.								1.16			1.40			5.38
Jackson	Mississippi								.30	.52					.60	.50	.03	.84	T.			.14				.13	.62			.35			4.03
Marble Hill.	Mississippi								.25	.70					1.10	.50		1.12				20				.10	.85			.25			5.07
Morehouse	do								28	.79					.60	.41	.01	.35	T.			.01				.05	.53			.64			3.67
New Madrid‖	do								.20	1.48	.10					1.25	.02	.13	.27	.01		.01	.20			.01	1.10			.90			5.68
Parma	St. Francis								.35	.55					1.30		.25									1.50			.96				4.91
Patton	Mississippi								.04	.41					1.34	.64	.05	1.12	.10								.18	.50		.24			4.62
Poplar Bluff ‖	Black								.70						1.72	.18	.27					T.				.94			40				4.21
Sikeston‖	Mississippi								.12	1.80				T.		1.15	.02	.36	.14			.05				.05	.52			.55			4.76
Cairo, Ill.***	do								1.65	.13					.82	.18	.01	.35	T.		T.	.05				.70	.04		T.	.56			4.49
Ozark Plateau.																																	
Arcadia ‖	St. Francis								.15	T.					.12	1.31		.54	.59	T		.05			T.		.36			.23			3.35
Aurora	Neosho								.62						.52	.03		1.01								.10			.11				2.39
Birchtree(near)	Black								.27	.22					1.23			.86									.25			.24			3.07
Bolivar	Osage								1.25						.40			.20	.30										.22				2.37
Caplinger Mills	Osage								.75						2 25	.25		.14								.41			.09				3.89
Dean	Neosho								.83	.14					.38	.12		1.22											.04				2 73
Eldon‖	Missouri							.49	.12					1.14	.04	.05	T.	.38	.03							.13		.10					2.48
Farmington	St. Francis								.10	.02					1.08	.24	.03	.85	T.			.17				.02	.22		.32				3.05
Fredericktown‖	do			T.	T.		.03										1.60	.10	.78			.02						.10		.35			2.98
Galena‖	White								.90						.72	.42		.95								.85				.95			4.79
Gano	Meramec								.31	.10					1.60	.08		1.45	T.			.07				T.	.62			.25			4.48
Goodland	Black									.12					1.10	.15		.85				.10					.08			.08			2.48
Greenville	St. Francis								.14	1.69					2.00	.29		.75	T.		.02												4.89
Hailey	White					.50									2.00			.78											.04				3 32
Hollister	do												2.00				.62																2.62
Jerome ‖	Gasconade																																...
Koshkonong	Black								.43	1.30					1.60	.10		.67	T.											.42			4.52
Lebanon ‖	Osage								.60	T.					1.45	05		.54	.18						.80		.15						3.77
Lockwood	do								.35						1.51			.59	T.										.15				2.63
Mountain Grove‖	White								.40	.09					1.57	.49		1.22	.15							.02	.40		.25				4.59
Neosho	Neosho								1.75	.10					.70	.11		.90	T.							.17							3.73
Owensville ‖	Gasconade								.15	.35				.35	.65	.10	.12	.35	.43	.10													2.60
Rolla ‖	Meramec								.57					.70	.53	.09	.52	.70	.08		.06					.92			.30				4.47
Seligman	Neosho								.98	.21					1.09	.21		1.00								T.							3.49
Seymour(near)	White								.63	T.					1 20	.16		1.41	T.							T.	.11			.37			3.88
Springfield***	do							.37	12	.01			T.	.61	.32	.04	.24	1.06	T.							.02	T.		.17				2.96
Steelville‖	Meramec								T.	.43				T.	.73	.65	.07	.40	.68			.11					.20			.25			3.52
Stover ‖	Missouri								.50	.46					.71	.06											.39			.02			2.14
Tuscumbia ‖	Osage								.43	.15					.69	.04	.04	.28	.22			.04					.47			.31			2.67
Willow Sprgs.‖ (near)	White									.38					2.40			.94	T.											.22			3 94
Southwest Plain.																																	
Amoret	Osage								.96						.70		.03																1.69
Appleton City	do								.67	T.				.03	.78	.06		.01	T.			T.				.03	T.		T.				1.58
Clinton	do								1.05	.20				.20	1.23	.10					.05	T.				.35							3.18
Concordia‖	Missouri							.10							.85	.70						.30							.30				2.25
Harrisonville‖	Osage								.35	.21					.36	.03			T.			.02											0.97
Joplin*	Neosho							.45	.10					1.20	.70	.06	.43	.25											T.				3.19
Lamar ‖	do								.58						2.25	.02		.25												.10			3.20
Lamonte	Missouri								.95	.16				.08	1.18	.15		T.	T.		.01	.10				.15	.02		.01				2.81
Marshall	do								.65	.30			.17		1.11	.13			T.	T.	T.	.35					.63		.03				3.37
Nevada	Osage								.78					T.	1.45																		2.23
Osceola‖	do								.66	.24					2.35	.02																	3.27
Warrensburg	Missouri																																....
Warsaw ‖	Osage									1.75	.25				1.80	.05		T.				T.				1.05							4.90
Waverly ‖	Missouri								.45	25					.29	.10	T.		T.	T.		.28					.41	T.					1.78
Northwest Plateau.																																	
Albany‖	Grand								T.							T.					.25												0.25
Bethany	do		T.	T.	T.			T.	.08	T.				.22	.25		T.				.07	.15				T	T.						0.77
Chillicothe‖	do.		T.		T.				.18						.51	.13	T.		T.			.50					.54						1.86
Conception	Missouri		T.	T.					T.					29	.51	T.		T.	T.		.18	.14					.10						1.22
Edgerton	do		T.	T.					.43	.03				.02	.10	.04		T.	T.		.02	.21							T.				0.85
Gallatin ‖	Grand								T.	.40						.80						.25											1.45
Grant City	do		T.	T.					.05					.22	.46						.08	.26											1.07
Kansas City***	Missouri							.05	.76				T	.02	.11	.04		T.	.01		.07					.01	.01		T.				1.08
Kidder ‖	Grand			05	T				.26	.27					.28	T.						.40					.05						1.31
King City	Missouri								.10					.13	.13		.16																....
Lexington ‖	do								.71	.17					.22	.04		T	T.			.31											1.45
Liberty ‖	do																																....
Maryville ‖	do		T.	T.				T.	T.					.40	.19		T.	T			.20	.10				T.	.05						0.94
Oregon	do		T.						.35					.17	.44	.05		T.			.07	.22					.11						1.41
St. Joseph***	do		.02	T.					.46					.26	.10	.02		T.	T.		.18	T.				.01	.03		T.				1.08
Tarkio	do		T.	T.					.24	.15				.15	.74		T		T.		.18	.15					.10						1.71
Trenton	Grand			.02					.36					.40	.10	T.	T.	T.			.09	.13					.26		T.				1.36

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for November, 1926.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	55	48	44	46	64	67	62	60	47	34	45	63	59	60	53	51	47	31	32	29	26	41	49	43	72	65	39	68	48	64	..	50.4
	Minimum	33	23	39	34	33	42	45	45	27	17	24	34	48	48	36	33	28	25	21	23	8	3	22	31	33	28	24	36	27	32	..	30.1
Columbia	Maximum	47	45	44	45	65	67	63	54	37	33	45	60	58	60	45	51	40	30	29	29	27	42	50	41	71	52	41	62	44	65	..	48.1
	Minimum	30	23	38	33	33	44	48	36	23	18	26	37	49	45	37	34	25	25	22	22	12	9	29	31	34	30	24	36	29	37	..	30.6
Fayette §§	Maximum	45	46	45	48	40	42	63	47	46	37	47	61	57	61	57	52	32	30	35	30	30	42	51	45	71	43	45	56	50	65	..	47.3
	Minimum	36	19	25	24	26	24	32	44	27	13	22	24	33	47	35	31	30	24	20	21	8	4	16	19	30	29	21	26	25	25	..	25.3
Hannibal	Maximum	47	44	43	44	61	66	65	56	40	31	37	59	56	60	49	47	39	30	33	28	29	38	46	41	64	53	39	58	40	60	..	46.8
	Minimum	33	26	39	35	33	46	50	40	23	19	21	35	46	49	36	38	27	26	26	23	15	12	25	33	33	29	24	36	30	32	..	31.3
Jefferson City §§	Maximum	48	45	45	50	52	60	67	48	37	32	46	60	60	58	49	52	32	30	26	25	28	40	50	68	70	31	55	62	62	65	..	48.4
	Minimum	40	26	30	37	30	42	45	47	29	19	23	29	44	50	38	34	30	24	20	22	15	12	19	31	32	31	24	26	30	31	..	30.3
Kirksville	Maximum	51	44	40	44	62	68	61	59	55	32	..	56	54	61	53	48	39	28	35	27	28	37	47	41	59	57	31	51	43	60	..	ᵃ47.3
	Minimum	28	19	35	32	30	40	40	43	22	13	..	20	41	46	33	34	24	23	23	20	8	12	21	28	30	25	18	29	25	29	..	ᵃ27.3
Louisiana	Maximum	55	48	44	44	63	66	66	62	55	42	38	56	55	58	55	52	56	43	32	32	30	37	48	48	66	65	50	60	61	61	..	51.6
	Minimum	32	22	35	36	33	46	43	47	30	18	20	30	42	44	36	36	33	23	26	23	12	4	18	33	32	32	22	34	30	27	..	30 0
Macon §§	Maximum	41	46	41	46	61	65	64	48	36	34	43	60	57	60	39	47	31	30	33	29	27	37	47	45	67	34	53	56	42	62	..	46.9
	Minimum	31	20	33	32	30	32	42	44	25	13	14	22	38	47	35	33	30	22	22	20	5	10	20	28	30	27	20	23	24	27	..	28.3
Mexico §§	Maximum	49	48	44	45	64	69	68	49	37	34	45	60	58	59	42	53	46	29	29	33	26	40	47	42	70	35	52	61	48	63	..	48.2
	Minimum	35	23	24	35	32	35	44	44	29	17	17	24	35	46	37	33	35	23	23	20	9	6	16	25	30	29	22	28	27	23	..	27.5
St. Catharine (near)	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Louis(1)	Maximum	54	44	47	46	65	67	64	53	48	33	39	55	54	60	52	50	41	29	31	32	30	41	47	44	67	55	40	62	43	60	..	48.4
	Minimum	36	32	38	36	34	44	45	48	24	20	25	32	44	52	35	36	25	24	24	24	21	17	30	33	34	31	27	37	33	33	..	32.5
Unionville	Maximum	55	46	40	45	62	66	60	58	42	31	42	54	55	60	53	45	42	30	32	25	30	38	48	45	60	54	34	44	46	60	..	46.7
	Minimum	26	20	35	30	30	40	45	40	22	12	18	30	45	46	34	32	26	22	20	16	5	10	20	25	30	22	18	30	26	30	..	26.8
Warrenton	Maximum	53	49	45	43	66	68	66	59	49	33	41	58	54	57	53	52	46	29	29	29	28	41	46	45	67	66	38	62	56	62	..	49.7
	Minimum	37	26	34	36	31	46	42	44	28	17	19	30	45	46	36	34	25	23	20	21	13	12	23	31	30	28	23	36	28	29	..	29.8
Southeast Lowlands.																																	
Campbell	Maximum	67	51	58	51	59	66	67	59	56	41	45	57	57	69	55	57	55	36	43	43	40	45	56	61	70	69	49	65	63	59	..	55.6
	Minimum	36	31	29	29	26	35	42	45	33	22	20	24	45	50	44	34	35	24	23	22	28	22	23	42	40	43	26	37	41	28	..	32.6
Caruthersville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Doniphan	Maximum	64	48	59	50	58	65	64	59	55	39	42	55	57	62	54	56	47	34	34	42	38	44	54	59	68	52	48	62	61	55	..	52.8
	Minimum	34	45	29	29	25	31	42	46	37	23	21	25	45	52	40	31	29	23	18	24	21	14	21	42	42	37	24	39	39	27	..	31.8
Jackson	Maximum	65	49	56	49	51	67	66	58	53	53	42	54	53	68	55	57	50	33	38	40	35	42	53	51	67	66	46	62	60	52	..	53.1
	Minimum	35	25	27	32	26	32	41	46	32	20	16	26	42	50	39	35	29	22	21	21	23	12	21	35	29	35	23	36	35	23	..	29.6
Poplar Bluff	Maximum	71	56	59	47	64	68	66	59	57	47	48	58	60	63	55	58	52	35	48	48	45	47	57	65	71	68	47	63	63	59	..	56.8
	Minimum	29	28	27	29	25	30	34	45	36	20	19	22	43	50	42	31	35	21	18	22	26	13	20	42	37	41	22	34	41	25	..	30.2
Sikeston	Maximum	50	62	49	58	47	59	61	60	52	41	35	42	53	65	68	50	55	52	31	40	40	36	44	52	57	71	47	53	62	47	..	51.4
	Minimum	38	33	30	32	29	31	39	46	40	23	21	23	30	44	47	35	35	24	22	23	27	18	21	29	35	46	28	29	40	27	..	31.5
Cairo, Ill.	Maximum	64	47	54	44	56	64	63	57	53	34	41	53	57	67	52	55	52	32	38	40	35	42	52	54	71	56	46	63	59	52	..	51.8
	Minimum	38	35	35	36	33	40	46	47	31	24	24	32	45	52	40	38	29	26	25	26	27	25	32	38	38	35	31	43	37	32	..	34.7
Ozark Plateau.																																	
Arcadia §§	Maximum	56	52	49	43	63	68	61	52	43	40	41	53	59	56	43	55	35	29	36	36	36	45	52	52	65	41	50	60	52	58	..	49.4
	Minimum	33	25	26	34	28	30	37	40	23	18	15	16	33	45	42	31	32	21	17	16	21	9	10	25	31	38	23	23	34	24	..	26.7
Birchtree	Maximum	61	53	57	48	64	69	67	56	55	40	43	59	51	60	55	56	49	28	38	38	37	47	48	59	68	68	55	61	59	61	..	53.7
	Minimum	33	26	31	35	25	34	40	45	32	19	21	28	45	45	38	30	28	19	15	21	21	13	21	40	40	35	28	40	33	30	..	30.4
Eldon §§	Maximum	51	49	46	66	69	63	49	43	37	50	61	60	59	43	52	34	30	36	35	34	43	52	49	72	38	56	54	49	66	66	..	50.4
	Minimum	24	24	36	34	31	44	44	31	18	18	27	37	31	37	33	33	25	21	21	9	13	13	27	32	32	23	23	28	28	31	..	27.6
Farmington	Maximum	52	51	49	44	65	70	65	54	52	38	45	41	54	56	48	52	47	31	35	33	35	44	51	45	65	64	45	62	44	55	..	49.7
	Minimum	47	26	30	36	26	35	32	48	32	18	15	19	28	42	36	35	25	20	19	17	18	10	26	35	33	33	23	36	33	25	..	28.6
Hollister	Maximum	56	58	59	58	60	54	60	68	68	54	56	58	65	62	60	54	30	41	46	42	46	58	64	75	64	60	61	62	64	60	..	57.5
	Minimum	34	26	24	30	22	23	26	26	20	22	24	28	30	28	26	26	15	15	20	18	3	12	34	38	25	15	18	20	20	21	..	23.0
Koshkonong	Maximum	61	55	55	55	60	64	61	66	60	43	48	54	60	65	60	55	50	40	45	38	38	45	53	62	70	..	65	70	70	64	..	ᵃ56.3
	Minimum	38	29	34	31	28	38	41	45	33	21	21	31	45	50	40	33	29	26	21	23	25	27	28	44	41	..	22	40	35	33	..	ᵃ32.8
Lebanon §§	Maximum	54	53	50	50	64	68	62	60	41	37	48	58	60	60	43	53	35	27	37	36	32	39	53	52	70	38	53	69	55	65	..	50.7
	Minimum	38	21	22	34	29	35	42	44	26	10	17	25	36	49	35	31	29	19	13	15	15	11	13	30	31	29	21	24	26	27	..	26.6
Mountain Grove	Maximum	59	51	50	42	61	67	60	52	41	45	45	58	57	54	49	51	32	28	34	48	33	43	49	56	69	40	60	59	61	61	..	50.6
	Minimum	32	23	31	33	29	37	38	43	29	18	22	30	36	46	36	31	29	18	14	17	20	11	26	35	40	32	25	31	32	35	..	29.3
Neosho	Maximum	62	53	50	47	63	72	73	67	49	41	57	59	58	57	49	51	51	36	41	36	45	45	54	61	69	67	62	73	63	70	..	56.1
	Minimum	36	24	28	26	27	42	43	43	29	20	24	39	51	47	37	30	30	23	18	24	22	13	26	36	47	31	21	51	28	32	..	31.7
Rolla	Maximum	55	48	47	44	66	68	62	57	51	35	45	57	54	57	53	51	46	26	31	31	30	42	50	48	70	65	47	61	59	64	..	50.7
	Minimum	36	25	35	35	30	39	47	45	28	16	23	32	47	48	35	30	24	22	14	16	18	11	18	34	31	29	21	40	30	30	..	29.7
Springfield	Maximum	52	48	48	41	62	66	57	51	39	36	47	51	55	57	42	53	36	28	33	34	32	40	54	58	70	48	52	65	54	65	..	49.3
	Minimum	32	28	34	33	31	42	44	35	27	20	25	35	48	40	36	31	21	21	19	23	20	17	31	37	48	29	28	41	32	40	..	31.7
Southwest Plain.																																	
Amoret	Maximum	60	50	45	47	65	68	68	59	43	37	55	59	60	58	45	48	45	39	35	33	33	42	51	41	72	64	50	62	64	55	..	51.8
	Minimum	35	22	33	34	26	38	38	41	26	19	20	22	28	28	34	33	31	19	21	22	17	14	24	26	34	22	12	28	30	24	..	26.7
Appleton City	Maximum	53	48	48	45	64	67	60	57	44	37	54	61	58	59	45	49	46	33	37	34	35	42	52	48	73	65	54	63	52	61	..	51.6
	Minimum	39	26	33	36	31	42	46	44	27	19	28	39	53	45	37	32	28	24	22	21	18	17	28	32	35	28	25	46	28	35	..	32.1
Clinton	Maximum	58	48	44	45	65	67	60	54	45	35	50	61	57	60	59	58	49	39	32	35	32	41	53	49	73	62	54	62	50	65	..	52.1
	Minimum	38	25	32	35	42	42	45	44	27	20	32	39	46	48	36	32	30	23	24	22	15	19	32	30	33	28	24	46	28	38	..	32.5
Harrisonville §§	Maximum	47	48	45	49	67	66	58	46	41	39	52	57	58	58	44	49	34	30	37	35	40	48	52	51	71	40	57	57	52	65	..	49.8
	Minimum	38	23	24	35	29	31	39	44	21	15	18	27	41	50	35	30	30	22	20	19	12	11	18	29	29	25	22	24	24	25	..	27.2
Lamar §§	Maximum	50	51	52	46	65	67	60	55	42	39	58	60	59	59	45	53	54	34	32	34	34	43	56	56	73	45	63	68	58	61	..	52 5
	Minimum	38	27	26	30	31	35	44	46	29	21	22	28	43	54	38	31	32	25	21	23	20	17	19	32	34	31	27	28	29	29	..	30.3
Lamonte	Maximum	47	50	46	46	67	72	63	58	40	38	53	62	56	59	46	51	45	29	35	32	31	45	55	46	71	56	46	60	51	65	..	50.8
	Minimum	28	21	37	33	31	42	46	36	25	15	26	37	51	45	35	30	26	24	21	21	9	11	27	29	30	27	22	41	25	33	..	29.5
Marshall	Maximum	54	49	47	49	56	66	60	63	45	33	49	57	..	52	51	..	45	30	32	28	26	39	54	..	78	63	42	48	45	72	..	ᶜ49.4
	Minimum	32	20	39	37	30	40	38	45	28	18	23	38	..	39	35	..	28	24	20	21	8	3	25	..	30	20	23	38	24	40	..	ᶜ28.4
Nevada	Maximum	58	50	50	45	65	68	60	57	42	37	57	60	60	60	50	50	46	33	35	31	32	42	55	47	74	66	67	66	53	64	..	52.8
	Minimum	35	25	35	34	34	43	47	40	28	20	26	39	52	45	37	44	26	25	21	20	19	19	30	31	36	28	26	49	28	40	..	32.7
Warrensburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warsaw	Maximum	59	50	50	58	67	70	65	60	61	62	65	60	57	62	55	50	50	32	39	38	37	46	56	55	69	50	64	59	65	68	..	56.1
	Minimum	37	23	36	29	31	44	45	35	37	28	26	40	41	40	32	33	28	25	22	27	25	15	19	31	30	21	22	20	31	21	..	29.8
Northwest Plateau.																																	
Chillicothe §§	Maximum	45	46	40	47	66	70	59	48	38	36	46	59	56	62	41	49	31	30	31	28	28	42	49	44	71	35	49	51	48	63	..	46.9
	Minimum	29	20	19	30	30	32	41	45	24	14	15	28	38	49	37	31	29	24	20	21	4	4	16	21	29	25	22	22	25	25	..	25.7
Grant City	Maximum	51	40	42	46	66	68	58	55	33	32	44	54	55	60	48	46	39	28	28	24	25	38	46	40	56	50	31	45	44	59	..	45.1
	Minimum	26	20	34	31	32	39	45	32	20	12	21	33	50	48	31	31	26	23	18	19	3	8	20	20	32	22	19	32	25	35	..	27.0
Kansas City	Maximum	52	48	44	46	66	68	57	51	37	36	52	58	56	57	44	50	39	32	34	31	33	45	54	45	70	36	53	57	53	67	..	49.0
	Minimum	32	29	37	35	38	43	50	31	25	19	28	42	53	38	37	36	25	23	20	19	14	23	31	31	35	24	25	34	30	43	..	31.9
Kidder §§	Maximum	42	43	39	45	64	68	57	48	34	32	44	56	56	60	41	48	30	25	28	26	23	39	49	42	68	32	51	41	45	60	..	44.5
	Minimum	28	20	25	28	29	33	40	44	21	14	14	26	38	49	35	29	27	17	18	18	1	3	20	25	30	23	20	22	22	23	..	24.7
Lexington §§	Maximum	49	45	44	45	63	66	61	60	40	43	49	58	58	61	46	50	46	30	31	31	27	41	50	46	71	36	51	56	46	65	..	48.8
	Minimum	42	23	39	35	34	42	49	45	26	17	17	38	45	52	37	32	32	21	21	22	10	18	27	31	34	27	23	38	25	36	..	31.4
Maryville	Maximum	51	43	37	47	71	72	59	54	34	34	46	53	52	60	46	48	30	29	31	25	26	39	48	41	51	47	35	41	47	60	..	45.3
	Minimum	26	22	35	31	32	38	45	33	20	14	25	25	35	46	35	30	25	23	18	19	22	9	23	28	30	21	21	33	23	35	..	27.4
Oregon	Maximum	53	48	45	49	69	72	59	53	36	37	52	55	58	57	43	50	40	33	32	26	31	43	50	49	63	48	41	52	51	62	..	48.6
	Minimum	27	24	36	33	33	40	49	31	21	15	28	38	51	43	35	32	24	22	18	20	4	15	23	29	35	21	22	35	25	40	..	29.1
St. Joseph	Maximum	50	47	42	47	67	71	57	56	34	32	49	57	58	58	43	48	36	31	31	27	27	42	50	43	67	37	48	54	49	61	..	47.3
	Minimum	29	25	36	34	37	42	52	32	23	18	29	41	53	37	35	34	25	23	19	18	10	15	30	32	36	23	24	33	26	39	..	30.3
Trenton	Maximum	54	43	44	51	58	60	63	56	35	31	48	56	57	59	52	42	39	31	28	26	22	35	43	38	62	55	31	48	46	59	..	45.7
	Minimum	29	25	38	33	36	42	48	35	24	16	24	33	48	50	34	33	26	24	20	18	8	12	22	28	32	25	20	27	26	28	..	28.8

ᵃ, ᵇ, ᶜ, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 12-28-26—890.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

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CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXX. COLUMBIA, MO., DECEMBER, 1926. No. 12.

GENERAL SUMMARY.

There were no spectacular features about the weather of December, 1926, in Missouri. It was just an ordinary winter month. It is true it was the coldest month of the year—colder than January—though only one-tenth of a degree colder.

There were a few real winter days, the most outstanding ones being the 14th, and 15th, for the State as a whole; and it was distinctly cold in the southeast part of the State on the 26th, when subzero temperatures were general, and at the same time the lowest of the month. There also were several fairly pleasant days and generally favorable for most outdoor pursuits.

Fortunately the month's precipitation was not much more than normal, as the ground was still rather full of water from the persistent rains of preceding months. This was especially true of the southeastern part of the State where field work has been much retarded. The snowfall was heavy over the eastern part of the Ozarks and most of the southeastern lowlands; but nearly everywhere outside of this section it was light, the amounts being inappreciable at many stations. A general sleet storm occurred over the northern part of the State on the 6th, and 7th. All outdoor objects were loaded with ice. The load was more than many trees, as well as telephone and telegraph poles, could carry, and actual damage to such property as well as loss from suspended wire communication was considerable. Ice covered ground and highways made travel unsafe for several days.

Most of the wheat was in fair condition, considering the late seeding. Most of the corn had been cribbed; and livestock entered the winter in good condition with plentiful feedstuff.

TEMPERATURE.

The monthly mean temperature for the State, 65 stations reporting, was 32.6°, 1.3° lower than normal, and about 1° milder than last December. There were no marked difference for any of the divisions, the southwestern plain being about normal, while elsewhere deficiencies from a little less than 1° to a little more than 1° occurred. There were no prolonged cold or mild spells. The most general cold days were the 14th and 15th, when about 28 stations recorded zero or lower. The 26th was an unusually cold day over the eastern part of the Ozarks and northern part of the southeastern lowlands, where temperatures dropped to 10° to 12° below zero. The 3d and 4th were the mildest days generally. The month's extremes were 75° above, and 12° below. There were about 25 days with minimum of 32° or lower.

PRECIPITATION.

The average precipitation for the State, 97 stations reporting, was 2.18 inches. This only about 0.15 inch more than the 56 years' average. The southeastern lowlands were wetter, while most of the Ozarks and southwestern plain got about the normal amount of moisture. The northern sections were moderately drier than normal. There were two general precipitation periods, prevailing from about the 5th to the 12th, and 19th, to the 28th; several days during the first, middle, and last part of the month were mostly free from precipitation, either rain or snow.

There was general sleet, (rain freezing as it fell or rain and sleet freezing in an ice layer) over the northern part of the State on the 6th, and 7th, and especially from the Grand River east to the Mississippi River. There was considerable damage to trees, and to telephone and telegraph poles, and besides travel was rendered precarious for several days.

For most of the State the snowfall was light, most stations recording inappreciable amounts. From the eastern part of the Ozarks to the Mississippi River the snowfall was greater than usual, totals ranging from 11 inches in Shannon County to 10 to 14 inches in St. Francois, Bollinger, and Cape Girardeau Counties. The greater part of the snow fell during one storm, on the 25th.

MISCELLANEOUS PHENOMENA.

Fogs, dense.---7th, 9th, 20th, 21st, 23d, 27th, and 28th.
Halos, lunar.---10th, 12th, 18th, and 19th.
Halos, solar.---3d, 20th, and 30th.
Sleet.---General over the northern half on the 6th and 7th; local in eastern and southern counties on the 8th, 9th, 19th, 27th, 28th, and 29th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.14	83	76	128	44	6,491	8.7	28	nw.	13
Hannibal	30.15	81	..	...	..	6,816	9.2	26	nw.	13
Kansas City	30.13	82	73	155	53	8,353	11.2	39	nw.	13
St. Joseph	30.12	88	76	129	44	6,174	8.3	33	nw.	13
St. Louis	30.14	82	72	84	29	9,368	12.6	39	sw.	11
Springfield	30.11	89	75	124	42	8,442	11.3	32	se.	6
Cairo, Ill	30.14	84	74	...	..	7,466	10.0	31	n.	25
Keokuk, Iowa	30.15	78	75	94	32	6,023	8.1	30	w.	13

COMPARATIVE DATA FOR DECEMBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	35.9	+1.7	70	0	2.29	+0 24	....	....	6	....	....	....
1889	46.8	+12.6	78	2	0.96	−1.09	....	....	5	....	....	....
1890	36.0	+1.8	76	− 3	1.03	−1.02	....	....	3	....	....	....
1891	39.8	+5.6	72	− 1	1.90	−0.15	....	....	6	....	....	....
1892	29.4	−4.8	75	−22	2.38	+0.33	3.08	4.8	6	8	7	16
1893	35.2	+1.0	76	7	0.95	−1.10	2.95	2.7	5	11	11	9
1894	36.7	+2.5	75	− 7	2.13	+0.08	3.01	1.3	5	14	8	9
1895	34.3	+0.1	69	− 8	6.13	+4.08	6.95	3.4	8	9	8	14
1896	38.6	+4.4	79	− 5	0.93	−1.12	2.25	T.	3	13	8	10
1897	29.3	−4.9	74	−14	2.80	+0.75	2.70	6.3	7	8	8	15
1898	28.7	−5.5	74	−20	1.69	−0.36	2.50	5.1	5	17	6	8
1899	30.4	−3.8	72	−13	2.11	+0.06	1.70	6.6	9	12	9	10
1900	35.6	+1.4	68	− 3	0.69	−1.36	1.08	0.6	4	14	8	9
1901	28.5	−5.7	71	−29	2.93	+0.88	4.43	6.9	8	11	7	13
1902	30.7	−3.5	68	− 7	2.91	+0.06	2.50	3.1	8	10	4	17
1903	30.2	−4.0	65	11	1.51	−0.54	1.80	2.3	5	16	7	8
1904	32.9	−1.3	75	−10	1.50	−0.55	1.55	6.0	5	16	7	8
1905	33.3	−0.9	66	− 2	1.45	−0.60	2.24	1.7	4	18	6	7
1906	36.1	+1.9	73	0	2.27	+0.22	2.85	0.6	8	8	6	17
1907	37.7	+3.5	76	3	1.84	−0 21	1.78	3.7	7	11	7	13
1908	38.4	+4.2	80	− 4	0.85	−1.20	1.35	T.	3	16	7	8
1909	24.9	−9.3	76	−17	2.86	+0.81	2.50	7.7	8	12	6	13
1910	31.2	−3.0	67	− 5	1.25	−0.80	2.85	2.4	4	16	5	10
1911	36.7	+2.5	74	−11	2.80	+0.70	2.00	5.1	7	13	6	12
1912	36.5	+2.3	72	2	0.59	−1.46	0.91	0.6	3	19	5	7
1913	38.3	+4.9	74	− 3	2.27	+0.19	2.25	6.6	7	9	4	18
1914	26.8	−7.1	68	−18	2.48	+0.31	2.30	6.6	9	7	5	19
1915	34.7	+1.3	84	−13	2.77	+0.55	3.20	7.8	6	12	6	13
1916	31.3	−2.3	82	−29	1.85	−0.29	3.40	4.4	6	15	6	10
1917	25.5	−8.7	82	−23	0.74	−1.40	2.51	7.3	5	11	7	13
1918	40.0	+6.6	83	−12	3.21	+1.14	5.50	7.8	7	13	6	12
1919	28.5	−4.5	74	−22	0.69	−1.50	2.65	0.7	3	12	4	15
1920	35.6	+2.6	77	−10	1.93	−0.22	2.30	2 3	5	13	7	11
1921	36.9	+3.8	74	− 8	1.86	−0.23	1.91	1.9	6	13	7	11
1922	36.3	+2.9	75	− 6	2.11	−0.14	3.04	0.2	6	15	6	10
1923	41.0	+7.1	82	− 4	3.06	+1.03	2.23	0.8	8	11	6	14
1924	27.7	−6.2	80	−28	3.43	+1.40	4.20	4.6	7	13	6	12
1925	31.6	−2.3	80	−10	1.45	−0.58	2.81	4.8	4	13	7	11
1926	32.6	−1.3	75	−12	2.18	+0.15	2.00	2.4	6	11	5	15

Climatological Data for December, 1926.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip. .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	46	32.0	+ 1.4	64	12	0	14†	38	1.26	−0.36	0.84	3.0	6	10	3	18	nw.	O. K. Benecke
Clifton Hill	Randolph	731	26	31.4	+ 0.3	64	12	− 2	14†	36	2.04	+0.64	1.04	4.1	7	8	5	18	.....	Dr. A. J. Bradsher
Columbia	Boone	748	35	32.2	− 1.0	64	3	3	15	38	1.60	−0.41	1.12	1.0	7	10	5	16	nw.	U. S. Weather Bureau
Downing	Schuyler	878	4	28.2	......	55	3	− 3	14	36	0.61	−0.85	0.53	T	4	9	6	16	n.	E. E. St. Clair
Fayette	Howard	661	45	29.8	− 1.4	66	3	− 1	14†	40	1.57	−0.06	1.18	1.0	4	..	..	..	......	J. D. Settle
Fulton	Callaway	818	37	30.5	− 3.2	66	4	2	15	43	2.35	+0.43	0.80	1.8	7	12	8	11	......	Chamber of Commerce
Gorin	Scotland	700	38	....	......	..	..	....	..	..	1.44	−0.25	0.86	3.5	6	6	10	15	se.	J. W. Pulliam
Hannibal	Marion	534	33	30.6	− 0.9	63	12	2	14	38	1.07	−0.58	0.90	1.0	5	7	7	17	nw.	U. S. Weather Bureau
Jefferson City	Cole	557	37	29.7	− 3.1	67	2†	3	14†	40	2.77	+0.92	0.95	2.0	9	10	1	20	n.	Miss Emma Swift
Kirksville	Adair	969	36	28.0^{a}	− 1.6	62	3	− 3	14	40	0.86	−0.78	0.64	0.2	5	12	0	19	sw.	Prof. J. S. Stokes
Louisiana	Pike	469	31	32.6	+ 1.1	69	5	3	14†	39	1.99	+0.30	1.10	3.3	5	13	0	18	n.	J. T. Farrell
Macon	Macon	875	26	28.5^{a}	− 1.9	61	12	− 2	14†	36	1.80	+0.40	0 97	6.5	3	16	6	9	ne.	W. C. Brown
Mexico	Audrain	800	36	30.0	− 1.8	66	3	0	15	40	1.17	−0.83	0.63	0.8	6	19	0	12	w.	Mrs. Abbie Snoddy
St. Catharine(near)	Linn	800	14	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	.....	Mathias Schoch
St. Charles	St. Charles	456	37	32.8	− 2.1	69	3	5	15	42	0.55	−1.32	0.35	1.0	4	8	4	19	s.	L. C. Saeger
St. Louis (1)	St. Louis City	717	51	33 4	− 1.5	67	3	6	15	45	1.15	−1.08	0.36	2.0	8	11	1	19	nw.	U. S. Weather Bureau
St. Louis (2)	....do	578	13	33.0	− 1.3	65	3	7	15	45	1.36	−0.74	0.34	1.5	11	6	5	20	se.	St. Louis University
Shelbina	Shelby	779	32	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	....	J. C. Jewett
Steffenville	Lewis	650	27	30.2	− 0.4	62	12	− 1	14	44	0.58	−0.98	0.30	6.0	3	13	6	12	n.	Frank Hall
Unionville	Putnam	1,062	32	27.8	+ 0.4	56	1	− 5	14	36	1 20	−0.44	1.10	T.	2	6	9	16	n.	Geo. W. Davis
Warrenton	Warren	816	43	33.0	+ 1.0	68	3	2	15	44	2.02	−0.11	0.85	0.5	10	9	5	17	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	53	27.8	− 1.8	55	3	− 2	14	42	1.45	−0.42	0.82	5.7	5	6	8	17	n.	U. S. Weather Bureau
Section means and	extremes	.....	..	30.7	− 0.9	69	3†	− 5	14	45	1.42	−0.36	1.18	2.0	6	10	4	17	nw.	
Southeast Lowlands.																				
Benton	Scott	340	0	....	......	..	..	....	..	..	4.22	......	0.95	5.2	10	..	..	..	....	E. R. Tirmenstein
Campbell	Dunklin	314	0	38.5	......	69	3	7	26	34	5.76	......	1.60	2.5	8	8	6	17	n.	Jeff. King
Caruthersville	Pemiscot	265	29	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	..	John T. Markey
Doniphan	Ripley	344	21	35.6	− 1.8	66	12	− 2	26	36	4.97	+1.64	1.40	6.0	8	9	8	14	w.	W.W. Martin
Jackson	Cape Girardeau	428	34	35.0	− 1.6	69	8	− 7	26	51	3.24	+0.04	0.90	13.0	9	7	1	23	n.	John G. Putz
Marble Hill	Bollinger	470	30	35.0	− 1.2	68	3	− 5	26	43	4.44	+1.11	1.30	14.0	9	11	2	18	n.	R.A. DeWitt
Morehouse	New Madrid	289	24	....	......	..	..	....	..	..	3.95	−0.06	1.07	1.2	9	7	3	21	n.	John A. Spence
Parma	New Madrid	281	4	....	......	..	..	....	..	..	6.66	......	1.70	3.5	7	..	..	..	.....	H. W. Kendall
Patton	Bollinger	605	16	....	......	..	..	....	..	..	2.84	−0.18	0.80	9.0	9	..	..	..	..	S. P. Presnell
Poplar Bluff	Butler	339	21	37.0	+ 0.2	69	3	− 5	26	47	4.72	+0.54	1.52	5.0	8	10	7	14	e.	J. H. Wolpers
Sikeston	Scott	318	20	36.5	− 1.0	69	13	12	16†	42	4.24	+0.23	1.62	1.0	8	10	2	19	sw.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	359	50	37.2	− 0,6	65	3	12	15	41	4.15	+0.82	1.39	1.2	11	7	5	19	s.	U. S. Weather Bureau
Section means and	extremes	....	..	36.4	− 1.0	69	3†	− 7	26	51	4.42	+0.52	1.70	5.6	9	9	4	18	n.	
Ozark Plateau.																				
Arcadia	Iron	926	44	31.0	− 3.3	65	3	− 5	26	47	1.94	−1.04	0.40	5.2	9	16	0	15	w.	Arcadia College
Aurora	Lawrence	1,370	..	37.4	+ 2.3	71	3	5	15	43	2.02	−0.62	0.48	T.	8	13	2	16	sw.	W. T. Troughton
Birchtree (near	Shannon	1,000	30	35.4	− 0.4	69	3	4	26	40	3.58	+1.01	0.70	11.0	8	14	1	16	nw.	V. H. Kirkendall
Bolivar	Polk	1,071	31	36.4	+ 0.6	67	3†	2	15	50	1.62	−0.78	0.65	T.	14	14	4	13	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	26	....	......	70	3	....	..	..	2.74	+0.62	1.45	0	6	22^{b}	0^{b}	7^{b}	w.	H. E. Dean
Eldon	Miller	934	29	31.6	− 2.7	68	2	2	15†	42	2.52	+0.36	0.85	T	5	13	3	15	ne.	E. H. Shepherd
Farmington	St. Francois	918	14	33.2	− 3.8	68	12	4	26	37	2.03	−0.68	0.58	10.0	9	10	4	17	ne.	Robert Forsyth
Gano ‡‡	Dent	1,250	21	33.7	− 1.5	67	3	4	15	44	1.30	−0.71	0.45	1.2	9	9	5	17	s.	A. C. Leach
Goodland	Iron	1,000	31	33.2	− 1.2	69	3	−10	26	52	1.89	−0.59	0.86	8.5	6	11	2	18	s.	F. M Adams
Greenville	Wayne	381	3	33.7	......	65	12	−12	26	41	4.56	......	1.00	6.0	7	12	2	17	n.	Wm. P. Owens
Hailey	Barry	1,350	0	....	....	..	..	....	..	..	2.20	......	0 72	0	6	17	3	11	w.	A. W. Madison
Hollister	Taney	735	38	34.8	+ 4.9	75	4	− 4	15†	52	4.10	+1.83	0.90	0	6	15	2	14	n.	Mrs. W. P. Chapman
Koshkonong	Oregon	958	24	40.2	+ 2.6	70	5†	8	15	48	3.93	+0.77	0.85	6.0	9	11	2	18	n.	R. M. Hitt
Lebanon	Laclede	1,265	37	33.0	− 2.0	67	3	2	14†	47	2.35	−0.25	0.95	T.	8	7	4	20	se.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	19	35.0	− 0.5	60	2	4	15	43	2.42	+0.48	0.90	0	7	16	1	14	se.	C. S. Crow
Mountain Grove(near)	Wright	1,463	24	33.6	− 0.7	68	4	5	14†	44	1.91	−0.32	0.47	1.5	10	13	3	15	nw	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	37	38.4	+ 1.7	68	3	4	15	50	2.88	+0.34	1.05	0	8	14	5	12	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	25	34.8	+ 1 2	69	3	5	14†	45	1.65	−0.42	0.52	T.	8	14^{a}	2^{a}	14^{a}	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	23	39.2^{j}	+ 2.6	69	3	4	15	46	2.71	+0.14	0.88	T.	8	13^{b}	4^{b}	12^{b}	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,642	19	35.4	+ 1.0	68	3†	3	15	50	1.86	−0.19	0.46	T.	7	9	6	16	nw.	Ira H. Hailey
Springfield	Greene	1,350	37	35.4	− 0.8	67	3	4	15	42	1.92	−0.75	0.58	T.	9	12	3	16	nw.	U. S. Weather Bureau
Section means and	extremes	.....	..	35.0	− 0.7	75	4	−10	26	52	2.52	−0.02	1.45	2.5	8	13	3	15	nw.	
Southwest Plain.																				
Amoret	Bates	831	18	33.5^{g}	+ 1.0	58	12	1	14†	32	1.10	−0.49	0.99	1.0	3	11^{g}	2^{g}	11^{g}	n.	Andrew Rood
Appleton City	St. Clair	853	31	34.7^{b}	+ 0.4	66	3	1	15	44	1.70	+0.06	0.75	0.4	7	10	10	11	ne.	W. G. Bigelow
Clinton	Henry	765	32	36.3^{h}	+ 1.9	65	3†	2	15	30	2.31	+0.58	1.14	0.5	7	9^{h}	4^{b}	10^{b}	ne.	A. E. Derwent, M. D.
Harrisonville	Cass	904	48	29.8	− 1.4	65	3	− 3	15	39	1.12	−0.66	0.60	T.	5	10	0	21	s.	John H. Patterson
Lamar	Barton	980	38	34.6	− 0.6	67	2†	4	15†	36	2.90	+0.95	1.32	0	7	15	2	14	sw.	Jesse A. Mann
Lamonte	Pettis	867	24	32.4^{b}	− 1.8	66	12	− 1	15	39	1.62	−0.04	0.90	2.0	8	10	13	8	sw.	J. E. Wheeler
Marshall	Saline	779	36	31.4^{b}	− 0.2	63	12	− 2	14	58	1.83	+0.17	1.06	6.9	6	16	2	13	nw.	Dr W. H. Black
Nevada	Vernon	862	32	35.8	+ 1.9	67	3	1	15	43	2.30	+0.44	1.16	T.	4	14	1	16	sw.	George A. Kaupp
Warrensburg	Johnson	878	38	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	.	L B. Johnston
Warsaw ††	Benton	687	25	37.4	+ 2.6	75	4	2	15	47	1.08	−1.24	0.50	0.3	4	14	9	8	w.	Everett Martin
Section means and	extremes	.....	..	36.0	+ 0.4	75	4	− 3	15	58	1.77	−0.03	1.32	1.2	6	13	5	13	sw.	
Northwest Plateau.																				
Bethany	Harrison	916	33	28.9	− 1.4	59	3	− 4	14	37	0.71	−0.64	0.63	T.	2	9	10	12	se.	M. H. Moulton
Chillicothe	Livingston	779	16	27.7	− 7.9	67	3	− 2	14†	46	0.95	−0.70	0.53	5.0	3	12	6	13	e.	Wm. J. Olenhouse
Conception	Nodaway	980	36	28.0	− 1.3	55	3	− 5	14†	32	0.73	−0.26	0.39	T.	2	10	7	14	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	5	31.0	......	65	3	− 2	15	34	0.79	−0.54	....	1.0	6	15	3	13	n.	Fred L Stiff
Grant City	Worth	1,134	21	28.2	+ 0.5	57	3	− 4	14	34	0.81	−0 35	0.66	T	2	10	8	13	sw.	W. P. Spillman
Kansas City	Jackson	963	36	31.7	− 0.8	62	3	0	14	32	0.96	−0.40	0.75	T.	6	11	6	14	nw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	32	23.4	− 6.3	61	3	− 3	14†	40	0.58	−0.72	0.35	2 0	3	10	5	16	sw.	Linn Terry
King City	Gentry	1,095	0	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	..	D. B. Oliver
Lexington	Lafayette	688	40	31.9	+ 0.4	64	3	− 1	15	39	1.56	−0.16	0.82	1.0	5	14	2	15	n.	Edwin G. Loomis
Liberty	Clay	859	35	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..		Doran H. Coffman
Maryville	Nodaway	1,169	35	28.4	+ 2 1	56	3	− 3	14†	32	0.78	−0.27	0.38	0.5	4	14	3	14	n.	J. R. Brink
Oregon	Holt	1,048	69	30.0	+ 1.5	61	3	− 2	15	31	0.88	−0.56	0.64	T.	4	13	9	9	nw.	Mina Wright
St. Joseph	Buchanan	967	17	29.6	− 0.5	62	3	− 1	14	27	0.86	−0.24	0.55	1.3	6	14	13	4	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	22	26 8	+ 0.9	56	30	− 4	14	34	0.90	−0.02	0.39	T.	4	9	8	14	nw	Albert Volker
Trenton	Grundy	822	29	28.8	− 0.8	57	3	− 1	14†	28	1.35	0.00	0.71	T.	5	5	12	14	n.	W. H. Estes
Section means and	extremes	.....	..	28.8	− 1.1	67	3	− 5	14†	46	0.91	−0.37	0.82	0.8	4	11	7	13	n.	
State means and	extremes	.....	..	32.6	− 1.3	75	4	−10	26	58	2.18	+0.15	2.00	2.5	6	11	5	15	n.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5. ‡ Indicates plus.

Daily Precipitation for December, 1926.

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri					T.		.65	.22	.06					T.						.03		.22		.24								1.42
Brunswick‖	Grand					.03		.84	.02	.01													.21		.15								1.26
Clifton Hill	Chariton				T.		.04	1.04	.01	T.	.03			T.						.01		.40		.51									2.04
Columbia***	Missouri				T.		.06	.27	T.	T.				T.						.03	T.	.11	T.	.24					T.				0.71
Downing	Mississippi					.04	T.	.53			T.			T.						.02		T.	T.	.02									0.61
Fayette‖‖	Missouri							1.18												.07		.11		.21									1.57
Fulton	....do							.80	.24	.09										.01		.25	.38		.58								2.35
Gorin	Mississippi					.14	.19	.86												.01		.20			.04								1.44
Hannibal***	....do				T.	T.	.12	.78		.02	T.			T.						T.		.08		.07	T.								1.07
Hermann‖	Missouri					.02		.64	.32	.10						T.					.08	.04	.40		.46				.01	T.			2.07
Jefferson City‖	....do							.95	.10	.15											.05	.15	.20	.40	.68	.09							2.77
Kirksville	Mississippi					.03	T.	.64	.02													.02		.15									0.86
Louisiana	....do					.24	1.10	.10												.20		T.	.35										1.99
Macon‖	Chariton						.20	.97															.63										1.80
Mexico‖	Mississippi							.63	.12	.12				T.							.02		.08		.20								1.17
Milan‖	Grand						.85		T.															.32									1.17
Pacific‖	Meramec					T.		.20		.28	.08										.12	.03	.18		.23				.12				1.24
St. Catharine (near)	Grand																																....
St. Charles	Missouri							.35	T.											T.		T.	.05	.10					.05				0.55
St Louis (1)***	Mississippi				T.		.02	.02		.36	T.		T.	T		T.				.08	T.	.24	T.	.28		.01		T.	.14			T.	1.15
St. Louis (2)*	....do				T.		.01	.18		.34				T.						.12	.01	.24	.01	.30		.02	T.	.02	.11				1.36
Shelbina‖‖	....do																																....
Steffenville	....do							07			T.									T.		.21	T.	.30									0.58
Union‖	Meramec							.42	.07	.32	.02									T.	.15	.03	.37		.37				.04	T.			1.79
Unionville‖	Chariton					T.	T.	1.10			T.		T.									T.		.10									1.20
Warrenton	Mississippi					.03	T.	.85	.02	.17				T.						.04	.03	.10	.05	.70	.03				T.				2.02
Keokuk, Ia.***	....do				.17		.24	.58			T.		T.	T.						T.		.43		.03									1.45
Southeast Lowlands																																	
Benton	Mississippi							.06		.60			.06								.93	.95	.02	.11	.10	.52			.87				4.22
Campbell‖	St. Francis							.02		1.06			.11								1.10	1.60			.45	.61			.81				5.76
Cape Girardeau‖	Mississippi							.02	.04	.33	.08		.03	.02							.46	1.00	.11		.47		.40		.47	.11			3.54
Caruthersville‖	.... do																																....
Dexter‖	St. Francis							T.	T.	.67	T.			.07							.38	1.32	.12		.12		.41		.87	.10			4.06
Doniphan	Black							.02					.10								1.25	.75			.35	.60		1.40	.50				4.97
Jackson	Mississippi							.05		.47			.04								.50	.82	.03			.90		.40				.03	3.24
Marble Hill	Mississippi									40			.12								.45	.56	.20	.50	.80	1.30		.11					4.44
Morehouse	....do							.03		.59			.04								.78	1.07	.01		.23	.29			.91				3.95
New Madrid‖	....do									1.10	.21		.01	.27							.51	2.00	.45		.40	.10	.80		.67	.22			6.74
Parma	St. Francis									1.12			.09								1.00	1.70			.40	.25		1.50					6.06
Patton	Mississippi							.04		.43			.03							T.	.36	.75	.02		.25	.80			.16				2.84
Poplar Bluff‖	Black								.68				.04							.30	1.52	.12		.31		.50		1.25					4.72
Sikeston‖	Mississippi								.02	.72	T.		T.								.39	1.62	.28		.32	.10			.79	T.			4.24
Cairo, Ill.***	.. do					T.	T.	.05		.67			.07							.16	1.01	.79		.26	.03	.35		.32	.44			T.	4.15
Ozark Plateau.																																	
Arcadia‖	St. Francis								.04	.26	T.		T.								.26	.40	.14		.18		.37		.26	.03			1.94
Aurora	Neosho						.17	.48		.21				T						.02	.43	.36		.33				.02					2.02
Birchtree (near)	Black						.03	.12		.59											.70	.39		.20		1.10		.45					3.58
Bolivar	Osage		.02				.10	.65		.02										.02	.04	.33	.01	.33		.01		.04	.02	.02	.01		1.62
Caplinger Mills	Osage						.20	.90		.21										T.	.09	.50		.36				T.					2.26
Dean	Neosho						T.	1.45		.18										.02	.36	.37		.36									2.74
Eldon‖‖	Missouri						.85		.39												.08	.48		.72									2.52
Farmington	St. Francis							.05		.16										.10	.21	.31	.02	.22		.58			.38				2.03
Fredericktown‖‖	.... do									.10										.28		.37		.15		.10	.64	.30	.20				2.14
Galena‖‖	White							1.03			.25										.15	.42	.21						.10				2.16
Gano	Meramec						.04	.15		.07	T.									.17	.25	.20	T.	.11	T.	.07			.24				1.30
Goodland	Black									.27										.02	.22	.30		.22		.86							1.89
Greenville	St. Francis									.85										T.	1.00	.76		.28	.32	.60			.75				4.56
Hailey	White						.30	.72		.30										.04	.34	.50											2.20
Hollister	.... do						.20	.80	.80	.90											.80	.60											4.10
Jerome‖	Gasconade																																....
Koshkonong	Black						T.	.10		.66			.04								.85	.62		.30		.60		.10	.66				3.93
Lebanon‖	Osage							.95	.05	.15			T.							.40	.45	.10	.10	T.					.15				2.35
Lockwood	....do						.44	.90		.33										.07	.13	.20		.35									2.42
Mountain Grove‖	White							.47		.38										.02	.19	.33	.12	.01	.16		.07	T.	.16				1.91
Neosho	Neosho					T.	.34	1.05		.14										.12	.48	.42		.30				.03	T.				2.88
Owensville‖	Gasconade						.48	.17	.25												.14	T.	.22	T.	.18								1.44
Rolla‖	Meramec						.46	.07	.08	T.				T.						.52	.08	.25	.03	.16				T					1.65
Seligman	Neosho						.33	.88		.29				T.						.03	.70	.29		.09				.10					2.71
Seymour (near)	White					T.	.14	.46		.38				T.						.08	.34	.32	T.	T.	T.	T.				.14			1.86
Springfield***	....do					T.	.16	.44	.11	.07				T.	T					.34	.35	.37		.04		T.		.04	T.				1.92
Steelville‖	Meramec							.22		.06											.38	.06			.15	.16	.03		.05				1.11
Stover‖	Missouri							.99	.03	.20											03		.18	.33									1.76
Tuscumbia‖	Osage							.76	.10	.46	T.										.20	.10	.50		.51				T.				2.63
Willow Sprgs.‖‖ (near)	White							.51		.55											.50	.51	.07	.45			.27		.13	.10			3.09
Southwest Plain.																																	
Amoret	Osage						.99																.10	.01									1.10
Appleton City	....do				T.		.23	.75		.18	.05			T.						T.	.02	.26		.21									1.70
Clinton	....do							1.14	.10											.13	.05	.45	.04	.40									2.31
Concordia‖‖	Missouri							.91															.63										1.54
Harrisonville‖	Osage							.60	.09												.08		T.	.19	.16								1.12
Joplin*	Neosho						.68	.58	.15	.12										.20	.05	.26		.53				.05					2.62
Lamar‖	....do							1.32	T.	.50											.23	.07	.38		.37				.03				2.90
Lamonte	Missouri						.05	.90		.06	.04			T.	T.					.05	.02	.20		.30									1.62
Marshall	.... do				.03		T.	1.06	T.	.02										.03		.30		.39									1.83
Nevada	Osage							1.16		.66										T.		.03		45									2.30
Osceola‖‖	....do							1.23	.02	.35											.23	.20	.22	.56									2.81
Warrensburg	Missouri																																....
Warsaw‖	Osage							.15													.40	.03		.50									1.08
Waverly‖	Missouri					T.		.63	.33	T.	T.			T.							T.		.22		.15								1.33
Northwest Plateau.																																	
Albany‖‖	Grand																																....
Bethany	....do				T.	T.	T.	.63					T.									T.		08									0.71
Chillicothe‖‖	....do					T.		.53	.17	T.	T.				T.					T.	T.		T.	T.	.25								0.95
Conception	Missouri				T.		T.	.39	T.		T.		T.	T								T.	T.	.34				T.					0.73
Edgerton	....do				T.	T.	* *	.51	T.		T.		T.	T.							.02	.10	.10	.06									0.79
Gallatin‖	Grand							.75	T.	T.				T.									.10		.12								0.97
Grant City	... do				T.		.15				T.												T.	.66									0.81
Kansas City***	Missouri				.02		.35	.45	T.	.01			T	T.						T.	T.	01	T.	.12	T.			T.					0.96
Kidder‖	Grand					T.		.35	.05				T										.18										0.58
King City	Missouri																																....
Lexington‖	....do					.08		.82	.30														.08		.28								1.56
Liberty‖	....do																																....
Maryville‖	....do				T.		.01	.38	T.		.02												T.	.37				T.					0.78
Oregon	....do				.02		.03	.61		T.				T.									T	.19				T.					0.88
St. Joseph***	....do				.05		.46	.09	T.	.01	T.		T.	T.						T.		.14	T.	.11	T.			T.	T.	T.			0.86
Tarkio	....do				T		.15	.39																.34				.02					0.90
Trenton	Grand				.06		.36	.71		T.	T.		T.									.03	T	.19									1.35

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch.

*** Regular U. S Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for December, 1926.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	57	46	55	52	35	30	38	36	32	46	52	64	49	15	20	35	33	38	47	45	40	34	38	41	31	45	38	35	32	55	46	40.6
	Minimum	24	27	33	33	25	21	29	29	28	27	26	42	11	0	0	9	20	13	31	33	32	29	33	16	15	15	26	26	11	23	35	23.3
Columbia	Maximum	46	49	64	42	38	32	45	36	33	47	53	64	46	15	18	35	33	36	45	44	38	36	44	34	27	41	35	34	31	50	40	39.7
	Minimum	26	28	42	37	24	22	32	29	29	28	30	40	8	3	3	14	20	15	34	38	33	31	34	18	15	16	24	22	12	27	30	24.6
Fayette §§	Maximum	35	48	66	39	33	33	44	34	33	47	54	60	43	13	20	35	30	40	46	44	39	36	43	36	31	45	39	33	33	51	36	39.3
	Minimum	25	24	26	33	28	20	22	30	27	24	24	25	15	−1	−1	7	18	15	15	36	32	28	31	16	12	10	11	21	10	20	24	20.2
Hannibal	Maximum	40	40	61	38	34	30	41	35	33	46	49	63	47	13	17	34	31	30	44	46	38	34	40	40	21	40	32	33	28	50	40	37.7
	Minimum	28	28	37	34	24	20	30	30	30	29	29	42	9	2	2	12	15	12	30	38	32	32	33	16	13	14	22	17	11	25	30	23.4
Jefferson City §§	Maximum	33	67	67	42	32	45	36	32	35	32	54	50	20	5	22	34	20	40	41	35	37	36	23	20	38	39	33	34	41	41	38	36.2
	Minimum	28	27	29	34	31	24	26	34	30	28	28	30	19	3	3	4	10	15	18	39	34	30	31	20	15	15	20	25	14	21	35	23.2
Kirksville	Maximum	..	42	62	47	32	28	34	34	29	39	45	50	49	14	17	30	29	30	45	43	38	32	35	37	27	43	35	35	31	54	44	^{a}37.0
	Minimum	..	26	25	29	21	14	25	25	26	25	23	35	9	−3	−2	5	13	8	25	30	28	26	30	11	7	13	21	22	5	20	28	^{a}19.0
Louisiana	Maximum	60	42	63	58	69	50	35	43	35	47	46	60	50	37	23	35	32	35	44	42	50	38	42	40	38	42	36	34	29	50	45	43.5
	Minimum	28	28	33	35	30	28	25	31	31	30	30	28	16	3	3	13	22	12	10	20	32	31	20	5	10	11	19	28	11	19	31	21.7
Macon §§	Maximum	33	45	60	37	31	33	35	50	35	43	57	61	28	16	16	32	27	43	45	44	35	38	38	29	34	43	37	32	30	50	..	^{a}37.9
	Minimum	30	25	29	31	27	18	20	30	25	26	25	27	12	−2	−2	7	9	9	13	34	30	30	30	14	6	7	17	25	6	8	27	19.1
Mexico §§	Maximum	51	45	66	40	33	34	46	35	34	47	51	64	29	13	20	36	34	38	44	46	39	35	43	24	29	45	38	35	31	51	39	39.2
	Minimum	27	26	28	34	29	20	22	29	28	29	29	30	20	1	0	1	13	12	13	37	23	30	31	19	12	13	19	20	10	11	29	20.8
St. Catharine (near)	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Louis (1)	Maximum	52	40	67	48	42	32	50	40	40	48	52	63	58	19	18	38	38	35	45	48	43	39	40	42	23	32	32	35	29	51	43	41.4
	Minimum	29	27	38	39	26	24	32	32	32	33	34	43	13	7	6	13	19	16	26	42	33	33	33	22	18	15	15	26	15	21	30	25.5
Unionville	Maximum	56	44	55	45	32	25	34	34	30	35	44	46	42	12	20	30	32	30	46	44	40	30	36	36	30	44	38	36	30	50	45	37.1
	Minimum	20	25	30	30	20	14	22	24	25	24	23	36	6	−5	−2	6	10	5	24	28	26	27	28	9	5	14	22	20	5	22	28	18.4
Warrenton	Maximum	56	42	68	63	39	31	45	47	35	48	51	65	61	20	19	38	35	36	41	46	41	33	36	42	24	42	35	33	30	53	44	41.9
	Minimum	28	26	34	36	29	23	28	32	29	29	29	38	17	3	2	10	23	12	25	40	32	30	32	21	15	14	15	29	11	21	30	24.0
Southeast Lowlands.																																	
Campbell	Maximum	51	49	69	64	59	40	55	56	46	41	51	66	62	32	26	38	48	41	50	54	55	44	49	51	35	34	38	38	37	53	48	47.7
	Minimum	35	25	35	48	38	31	35	44	35	36	22	40	31	16	14	14	25	22	22	43	40	36	31	32	25	7	17	32	22	20	34	29.3
Caruthersville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Doniphan	Maximum	48	47	65	63	55	40	53	53	46	42	55	66	55	26	26	36	48	39	46	53	46	40	47	43	32	34	33	39	34	54	44	45.4
	Minimum	30	25	32	33	30	30	37	38	33	35	25	35	21	13	11	9	20	20	19	39	36	35	35	30	23	−2	8	30	18	18	30	25.7
Jackson	Maximum	47	44	63	54	50	40	54	69	44	42	53	64	65	31	25	38	46	40	47	47	48	45	49	50	33	42	35	35	37	49	45	46.2
	Minimum	32	23	24	33	32	25	32	38	31	33	26	38	24	11	8	7	21	16	20	38	37	31	23	27	19	−7	9	30	15	8	30	23.7
Poplar Bluff	Maximum	52	49	69	60	54	40	53	54	44	41	55	68	68	30	30	40	53	44	48	54	51	43	48	48	39	42	34	38	40	51	44	47.9
	Minimum	32	24	28	39	37	29	32	44	33	35	22	39	42	13	11	8	19	18	17	40	39	35	35	33	19	−5	7	30	16	11	28	26.1
Sikeston	Maximum	53	43	41	65	55	55	51	55	46	40	39	58	69	58	25	22	36	41	38	49	52	43	45	51	45	34	35	34	36	31	47	44.9
	Minimum	28	24	25	36	43	41	30	45	35	34	28	28	52	16	13	12	14	20	20	31	40	35	33	33	26	12	22	27	23	21	25	28.1
Cairo, Ill.	Maximum	45	46	65	57	53	38	57	54	39	38	49	63	62	24	22	35	45	37	48	52	47	38	53	53	29	33	35	36	32	47	39	44.2
	Minimum	30	27	41	50	32	29	37	39	34	36	32	46	21	16	12	16	26	22	29	42	38	35	38	28	23	20	25	32	24	26	32	30.3
Ozark Plateau.																																	
Arcadia §§	Maximum	37	43	65	49	39	37	50	40	35	46	51	64	40	25	24	38	46	39	44	45	40	35	45	33	23	17	32	38	34	55	36	40.2
	Minimum	30	22	22	40	37	25	25	36	30	30	28	26	39	8	6	6	11	13	13	32	36	29	30	31	18	−5	−4	15	17	8	22	21.8
Birchtree	Maximum	52	47	69	61	53	35	50	49	40	46	50	67	60	24	24	41	50	44	43	49	47	42	44	44	33	42	32	36	34	52	47	45.4
	Minimum	36	24	37	50	33	31	30	38	32	33	25	40	20	8	7	8	12	13	25	40	37	32	33	25	18	4	14	29	14	13	30	25.5
Eldon §§	Maximum	54	68	39	35	38	48	34	33	48	55	65	24	20	22	38	41	43	45	45	38	37	45	24	30	44	36	33	36	54	37	45	40.5
	Minimum	26	26	35	32	25	26	34	32	27	28	28	24	4	3	2	2	14	18	37	34	31	31	22	17	15	17	22	16	15	29	30	22.6
Farmington	Maximum	38	42	65	54	41	33	48	48	35	45	53	68	57	20	22	42	44	39	42	46	42	37	45	42	25	40	31	33	32	54	46	42.2
	Minimum	31	23	37	40	30	25	29	34	31	23	28	38	20	8	6	9	22	13	23	36	36	31	33	25	18	4	7	29	17	13	32	24.2
Hollister	Maximum	60	61	60	75	65	60	58	59	56	48	60	59	40	39	28	48	55	58	56	55	48	43	44	43	45	42	40	40	45	50	50	51.3
	Minimum	30	29	31	32	30	32	28	30	32	20	30	28	15	0	−4	−4	5	15	16	14	28	25	18	16	10	2	5	10	10	18	18	18.4
Koshkonong	Maximum	52	49	69	68	70	59	50	54	43	44	52	67	70	60	33	40	51	56	49	53	49	42	45	45	32	42	32	37	36	55	50	50.1
	Minimum	37	25	39	50	48	31	32	39	33	34	31	40	58	12	8	10	23	21	25	42	38	33	35	23	21	16	27	31	20	23	34	30.3
Lebanon §§	Maximum	41	54	67	53	39	42	52	43	57	48	54	65	32	24	25	30	45	47	48	54	41	39	51	25	32	44	34	35	35	52	37	43.4
	Minimum	35	25	27	43	31	26	27	33	29	29	26	27	18	2	2	2	10	17	19	26	34	29	29	21	15	14	21	21	18	18	31	22.7
Mountain Grove	Maximum	61	45	55	68	65	32	36	48	38	36	46	52	65	24	22	17	39	48	44	45	47	39	35	44	25	28	38	33	33	33	54	41.8
	Minimum	36	25	36	45	32	29	30	33	31	31	27	37	21	5	5	6	16	20	26	35	36	29	31	23	18	14	18	23	19	21	30	25.4
Neosho	Maximum	60	62	68	65	63	38	46	46	40	45	51	65	65	19	23	40	50	54	51	50	45	55	53	55	36	45	43	38	43	54	55	49.1
	Minimum	38	33	47	43	33	32	36	32	32	27	25	44	15	7	4	9	20	19	36	43	35	34	38	20	20	17	22	29	18	27	28	27.8
Rolla	Maximum	59	50	69	63	47	34	48	48	35	49	51	65	60	18	20	41	42	43	44	46	41	35	43	45	27	42	37	32	32	53	44	44.1
	Minimum	29	25	41	41	30	25	30	33	30	29	28	40	15	5	5	10	23	17	29	40	32	30	30	21	16	16	20	28	16	26	32	25.5
Springfield	Maximum	49	52	67	66	50	34	50	38	35	46	53	65	53	18	20	40	45	45	48	47	40	37	45	33	31	40	33	32	36	50	39	43.1
	Minimum	31	28	43	50	31	30	34	34	31	30	30	41	11	5	4	13	26	25	32	40	32	32	33	19	18	21	24	25	21	30	31	27.6
Southwest Plain.																																	
Amoret	Maximum	54	49	46	44	45	47	42	39	48	52	54	58	35	20	..	..	..	..	..	..	..	48	42	46	37	44	43	35	42	54	48	^{g}44.7
	Minimum	28	26	30	29	28	24	26	28	26	26	24	28	11	1	1	..	..	..	..	..	..	29	29	15	17	15	20	29	15	22	31	^{f}22.3
Appleton City	Maximum	37	63	66	58	44	34	45	40	34	58	54	60	56	15	21	35	40	49	45	44	39	40	45	45	34	44	36	38	37	53	43	43.6
	Minimum	31	28	40	39	29	25	34	33	29	28	27	38	12	3	1	12	20	19	36	38	32	31	31	18	19	19	24	26	17	27	32	25.8
Clinton	Maximum	60	58	65	55	55	50	40	35	47	47	54	65	59	15	19	35	39	48	45	45	45	39	45	..	..	..	..	..	..	..	..	^{h}46.3
	Minimum	30	28	38	40	30	30	30	28	28	27	27	35	12	10	2	12	20	18	35	38	32	21	35	..	..	..	..	..	..	..	..	^{h}26.3
Harrisonville §§	Maximum	34	59	65	39	33	37	42	34	32	41	51	64	17	17	19	37	39	44	45	44	35	38	43	25	34	43	37	32	37	56	40	39.1
	Minimum	28	25	26	35	30	22	24	31	26	25	25	26	9	−1	−3	−2	9	15	16	34	32	30	30	15	15	18	24	16	15	18	25	20.6
Lamar §§	Maximum	40	67	67	57	57	41	48	41	35	46	55	65	19	16	22	37	44	50	46	45	38	47	50	25	35	45	36	34	42	48	36	43.0
	Minimum	38	31	31	45	33	29	30	31	31	30	29	30	17	5	4	4	14	24	25	41	36	33	32	20	20	20	21	27	21	20	30	26.1
Lamonte	Maximum	49	58	56	50	40	32	45	37	32	48	55	66	47	16	20	36	37	43	46	42	39	37	37	37	30	46	41	37	37	52	39	41.5
	Minimum	26	25	40	36	26	23	30	30	28	25	26	38	8	0	−1	10	18	16	34	35	31	29	30	15	16	15	24	24	12	25	30	23.4
Marshall	Maximum	52	48	58	52	37	32	44	40	32	44	54	63	58	17	31	34	35	38	46	42	39	..	..	32	25	36	40	30	40	44	40	^{h}40.9
	Minimum	24	26	36	25	27	21	21	30	25	25	25	41	0	−2	9	12	12	13	33	34	32	..	..	16	13	13	29	22	20	34	22	^{i}22.0
Nevada	Maximum	58	65	67	58	48	36	41	39	36	47	54	65	57	17	19	35	42	49	46	45	41	45	50	48	32	43	39	36	40	50	45	44.9
	Minimum	30	28	43	40	30	27	35	34	29	28	29	40	14	3	1	14	22	21	26	40	32	32	37	19	19	22	26	26	19	30	32	26.7
Warrensburg	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warsaw	Maximum	71	68	69	75	64	54	51	48	62	55	64	67	61	19	20	39	42	50	48	49	46	41	49	47	51	46	45	46	49	51	53	51.6
	Minimum	33	35	26	32	21	25	26	34	30	31	31	29	14	3	2	13	19	18	19	36	32	31	35	12	13	13	12	22	15	24	34	23.2
Northwest Plateau.																																	
Chillicothe §§	Maximum	30	47	67	34	31	33	34	34	31	42	50	51	12	15	20	35	30	42	45	45	36	35	39	26	33	46	37	32	35	54	37	36.7
	Minimum	21	20	26	31	29	19	19	29	27	25	25	28	11	−2	−2	−1	10	10	11	30	29	28	30	13	11	14	17	28	8	8	25	18.7
Grant City	Maximum	52	43	57	41	32	27	33	32	30	35	46	44	36	9	19	33	31	31	41	48	43	34	37	37	28	41	41	34	31	49	41	36.8
	Minimum	27	21	32	29	18	18	27	27	25	23	24	36	2	−4	−2	7	13	8	26	28	28	22	30	8	8	17	28	19	8	23	30	19.5
Kansas City	Maximum	43	57	62	37	32	32	39	34	34	41	52	56	24	15	21	36	32	41	45	47	39	41	45	25	32	44	38	35	39	55	42	39.4
	Minimum	25	27	37	32	22	22	32	28	27	29	34	24	3	0	1	15	19	16	41	33	33	32	21	15	16	26	30	26	18	31	30	21.0
Kidder §§	Maximum	27	54	61	33	27	32	33	30	30	40	48	49	11	10	19	34	26	43	43	40	45	35	38	23	31	42	33	31	31	52	35	29.7
	Minimum	19	18	26	28	24	18	20	27	26	23	25	26	7	−3	−3	−3	8	10	13	24	20	25	26	10	10	13	17	27	10	12	24	17.0
Lexington §§	Maximum	56	51	61	52	37	30	37	35	32	43	50	58	49	14	19	35	33	34	45	45	42	35	42	25	28	42	38	37	34	54	46	40.1
	Minimum	27	26	28	32	31	22	29	30	28	27	27	41	10	0	−1	11	19	13	32	33	33	29	33	15	15	17	26	30	12	27	34	23.7
Maryville	Maximum	50	45	56	41	30	25	32	32	29	35	47	45	34	12	21	37	30	32	47	49	39	34	37	26	33	42	38	38	37	51	40	36.7
	Minimum	20	23	35	29	18	18	25	27	26	23	25	34	2	−3	−3	5	14	12	31	29	29	30	25	8	10	18	25	20	12	25	30	20.1
Oregon	Maximum	33	53	61	45	32	28	34	35	32	39	50	51	28	14	23	38	36	44	46	44	41	36	39	26	37	45	37	36	40	54	40	38.6
	Minimum	22	23	38	30	20	20	27	27	27	24	28	28	2	3	−2	7	15	14	33	28	30	31	24	10	11	21	28	23	14	28	31	21.5
St. Joseph	Maximum	39	51	62	35	31	32	34	32	32	40	51	46	21	12	22	36	31	41	45	43	36	37	40	24	33	43	36	34	37	52	39	37.0
	Minimum	21	27	35	31	22	22	32	29	28	26	31	21	1	−1	0	12	17	15	37	27	32	31	17	12	15	23	32	20	15	29	30	22.3
Trenton	Maximum	41	43	57	48	31	29	31	31	33	34	48	47	36	12	19	33	29	28	44	45	36	34	38	34	26	41	36	38	30	42	38	36.0
	Minimum	21	28	31	31	22	20	29	28	29	24	26	36	8	−1	−1	8	14	17	28	29	32	29	31	12	13	16	21	20	10	24	32	21.5

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^{a}, ^{b}, ^{c}, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 2-3-27—890.

MS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXX. Columbia, Mo., Year, 1926. No. 13.

GENERAL SUMMARY.

Except for some few relatively brief spells, the general weather of Missouri during the year 1926, was not conspicuous for any marked departures from the usual. There was little severe cold during the winter and the summer was practically free from prolonged intense heat. All of the principal elements, temperature, moisture, sunshine, and wind averaged up pretty well with their respective normals.

The few features worthy probably of more than passing note were the prevailing moderate and open conditions of January and February; heavy snow during the last days of March and first of April, and again in November; damaging local windstorms in the northwestern part of the State on June 16th, and in the southern part on November 25th, and the abnormally heavy rainfall of September.

The crop growing season had a few set backs, among which might be mentioned the late cold spring; lack of sufficient moisture in July and the first of August, particularly over the southern and eastern sections, and the persistently wet early autumn with its unprecedented floods from the northern streams and more especially the northwestern rivers. The last general killing frost occurred on the 19th of April, and the last real cold spell on the 15th of May. Owing to the general backward condition of vegetation there was little damage. Frost did some damage at some widely separated points on the 26th of September, but the first general freeze did not occur until the last week of October when all crops had matured.

Comparing each month with its normal, January, February, May, and August were warmer, and March, April, June, and November were colder, while the other months varied little either way. Generally, and for the State as a whole, the first seven months were drier than normal and this would include the first part of August; from about the middle of August to and including November there was an excess of rain. The total fall for August and September was more than the combined totals of the five preceding months. The combined totals of August, September, and October, was 20.09 inches, or about 47 per cent of the annual total.

Some localities suffered more and some less but in spite of the occasional adverse weather, Missouri crops were more than fair. Large and small fruits as well as nuts were unusually good, the late spring weather being favorable in keeping most of them back until all danger of killing frost was over. For instance, blackberries did not blossom generally until June, whereas they ordinarily are in full bloom the middle of May.

THE WEATHER BY MONTHS.

January.—Taking the month as a whole, the prevailing weather was relatively mild for mid-winter. There were only two real cold snaps, each being of less than a week's duration. The coldest of the two set in on or about the 20th, and by the 22d, zero to 10 degrees or more below had overspread nearly all sections, being unusually severe in the southeastern lowlands. A general reaction to milder followed on the 26th, the month terminating in spring-like weather. Precipitation was frequent, although not heavy. Snows were rather light in most of the northern half of the State, but heavy in the Ozarks and the northern part of the southeastern lowlands. Outside the usual daily chores, there was no farm activity, and outdoor work in general was practically at a standstill. Wheat came through the month in fair condition, Fruit buds in some localities were damaged by the cold.

February.—Unusually mild weather prevailed, with the exception of less than half a dozen days, and the temperature drop on those days was mainly unimportant. There were only 15 days with minimum temperatures of 32 or lower; and zero cold was brief, being limited to a few localities and confined to one day. The precipitation was about normal, and it was somewhat more frequent during the latter half of the month than the first part. The snowfall was very light for the State as a whole but there were some heavy local falls, particularly in Jackson, and Lafayette Counties in the west, and Saline, Linn, Randolph, Shelby, and Marion in the central and central-east parts. Some high winds occurred, the most outstanding gale being the one of the 18th, which was attended by drifting snow, and interfered with public traffic to some extent.

March.—This month was persistently cold, except a relatively mild period from the 15th to the 24th. The month was normally wet. Open weather prevailed the first five days but afterwards the wet spells alternated quite regularly with the fair ones, the former being somewhat longer. The general snowstorm of the 29-31st was the outstanding feature. This storm prevailed for nearly 48 hours. Over most of the State north of the Ozarks amounts ranged from 6 to over 14 inches; and there was a gale blowing, drifts of from 4 to more than 6 feet were common. The most extensive blockades of highways in recent years for the season occurred. There was no actual loss of property. Wheat was probably benefited. The apple and strawberry crops were not injured, but part of the peach crop suffered from low temperatures.

April.—A cold month in all sections of the State, and generally drier than usual. Real winter weather with snow during the opening days and killing frost occurred late in the month. The 17th and the 30th were about the only real spring-like days, that is, warm, pleasant days. All vegetation and farm operations were backward. Wheat made slow growth, and oat seeding was delayed. All fruits were kept back by the prevailing low temperatures and the condition was generally satisfactory. The commercial strawberry crop was fully two weeks latter than last year. There were a few damaging local wind storms on the 23d, and 27th.

May.—Changeable as to temperature and too dry. The first ten days approximated the usual but the remainder of the month was cold, and unfavorable for agricultural interests. There was frost on the 15th, but owing to the backward condition of vegetation there was little damage. Probably had the month been warmer, the lack of moisture would been more pronounced, although as it was, oats, grasses, strawberries, and early gardens suffered. Some timely rains, however, fell on the last three days. Much plowing was done. There were a few damaging hail storms.

June.—Mainly a cool month over all of the State, with some rather low temperature values on several dates. There were,, however, a few hot days with afternoon temperature ranging around the 100 degree mark. The monthly extremes, 37 degrees and 101 degrees, were within those of other years. The rainfall was about one inch less than normal, and drought effects were noticeable by the close of the month. Thunderstorms with hail were quite frequent, and locally both wind and hail resulted in damage, The weather was favorable most of the time for farming interests, with all work well up to the usual.

July.—There was a shortage of rainfall but otherwise the weather was fairly good for outdoor occupations. The first week was hot but the remainder of the month was pleasant to mainly warm. North of the Missouri moisture was sufficient for needs, but in the east-central and most of the southern half suffered from the lack of rain. Not more than one-fifth of the

(Continued on Page 54.)

Climatological data for Year, 1926

Stations	Counties	Elevation, feet	Temperature (Degrees Fahrenheit)						Precipitation (inches)							Number of days				Prevailing direction of wind
			Length of record, yrs.	Annual mean	Highest	Date	Lowest	Date	Length of record, yrs.	Total	Greatest monthly	Month	Least monthly	Month	Total snowfall	With precip. .01 inch or more	Clear	Partly cloudy	Cloudy	
Northeast Plain.																				
Brunswick	Chariton	652	48	54.2	101	July 2†	− 2	Jan. 22†	48	42.68	11.17	Sept.	1.22	Jan.	36.3	115	170	38	157	nw.
Clifton Hill	Randolph	731	28	52.7	102	Aug. 10	− 5	" 22	18	44.07	7.83	"	1.61	"	41.5	120	126	99	140	....
Columbia	Boone	748	37	53.6	101	" 10	0	" 22	37	43.56	10.00	"	1.43	"	22.5	133	125	93	147	s.
Downing	Schuyler	878	6	51.7	96	July 2†	−10	" 22	18	42.04	14.13	"	0.61	Dec.	19.1	98	162	68	135	n.
Fayette	Howard	661	47	....	102	Aug. 10	− 2	" 22†	44	45.73	10.37	"	1.57	"	24.1	76	....	....	....	......
Fulton	Callaway	818	38	53.6	103	" 11	1	" 22†	35	44.52	10.06	"	0.99	Jan.	20.9	115	169[a]	101[a]	94[a]	......
Gorin	Scotland	700	..	....	....	....	....	....	40	44.20	12.94	"	0.92	"	29.0	98	98	97	170	sw.
Hannibal	Marion	534	35	52.8	99	July 2	− 5	Jan. 22	43	47.11	13:17	"	1.07	Dec.	46.8	124	114	101	150	s.
Jefferson City	Cole.	557	39	53.6	104	Aug. 10	2	" 22	43	47.32	9.71	"	1.08	Jan.	21.6	117	206	47	112	n.
Kirksville	Adair.	969	38	51.5	97	July 29	−10	" 22	45	42.77	9.72	"	0.84	"	38.8	89	170[a]	25[a]	169[a]	sw.
Louisiana	Pike	469	33	54 2	101	Aug. 10	− 2	" 22	46	61.99	14.36	"	1.85	"	40.9	119	212[c]	46[c]	104[c]	w.
Macon	Macon	875	28	51.9	100	June 12	− 8	" 22†	34	51.64	13.12	"	1.46	"	35.8	109	170	87	108	se.
Mexico	Audrain	800	38	52.9	102	Aug. 10	− 2	" 12†	49	48.46	11.89	"	1.11	"	24.3	116	204	14	147	w.
St. Charles	St. Charles	456	39	55.6	106	" 11	1	" 22	49	34.62	7.87	"	0.55	Dec.	17.9	77	129[k]	99[k]	126[k]	s
St. Louis (1)	St. Louis City	717	53	55.8	100	" 11	3	" 22	90	33.35	7.40	"	0.54	July	17.6	121	132	99	134	sw.
St. Louis (2)	......do	578	15	55.3	100	" 6	3	" 22	15	35.21	8.15	"	0.65	"	20.6	122	155	85	125	se.
Shelbina	Shelby	779	..	....	....	....	....	....	34	47.49	11.05	"	1.27	Dec.	37.5	116	....	....	....	.....
Steffenville	Lewis	650	29	53.6	104	Aug. 29	− 9	Jan. 22	34	48.35	10.27	"	0.58	"	34.7	107	147[a]	123[a]	94[a]	s.
Unionville	Putnam	1,062	34	51.5	102	" 5	−11	" 22	34	40.02	13.91	"	1.20	"	22.5	88	136	87	142	n.
Warrenton	Warren	816	45	54.9	104	" 10	− 1	" 22	37	42 42	10.70	"	1.19	Jan.	30.7	112	137	110	118	nw.
Keokuk, Iowa	Lee, Iowa	574	55	51.5	96	July 2	− 6	" 22	55	43.34	12.56	"	1.03	"	48.1	117	97	110	158	nw
Section means and	extremes	....	..	53.3	106	Aug. 11	−11	Jan. 22	..	44.17	14.36	Sept.	0.54	July	29.7	109	150	81	134	s.
Southeast Lowlands.																				
Doniphan	Ripley	344	23	57.1	105	July 3	− 3	Jan. 23	23	51.76	9.30	Aug.	1.29	June	9.5	77	121	155	89	sw.
Jackson	Cape Girardeau.	428	36	55 9	104	" 3	−13	" 23	37	37.33	4.84	"	1.20	May	30.4	103	90	60	215	n.
Marble Hill	Bollinger	470	32	56.6	108	" 2	−13	" 23	33	42.04	5.07	Nov.	1.38	"	28.0	93	142	107	116	n.
Morehouse	New Madrid	289	..	....	....	....	....	....	6	46.59	11.82	Aug.	1.81	Feb.	7.1	105	175	105	85	sw.
Parma	New Madrid	281	..	....	....	....	....	....	6	45.57	11.09	"	1.57	July	8.5	77	....	....	....	.....
Patton	Bollinger	500	..	....	....	....	....	....	18	38.89	6.63	Oct.	1.04	May	14.0	100	....	....	....	......
Poplar Bluff	Butler	339	23	58.0	107	July 3	− 5	Dec. 26	23	48.13	8.94	Aug.	1.02	June	13.5	81	201	89	75	s.
Cairo, Ill.	Alexander, Ill.	359	52	57.8	101	" 3	8	Jan. 22	55	45.56	12.02	"	0.60	"	10.1	120	101	102	162	s.
Section means and	extremes	....	..	57.5	108	July 2	−13	Jan. 23	..	44.48	12.02	Aug.	0.60	June	15.1	94	138	103	124	s.
Ozark Plateau.																				
Arcadia	Iron	926	46	53.0	102	July 3	−18	Jan. 23†	49	38.75	7.22	Aug.	1.36	May	16.1	91	246	22	97	nw.
Birchtree	Shannon	1,000	32	56.1	103	Aug. 5	− 9	" 23	33	43.95	7.53	Oct.	1.36	June	37.0	83	202	63	100	se.
Bolivar	Polk	1,071	33	56.1	104	July 30	2	Dec. 15	40	38.16	9.02	Sept.	0.50	July	8.4	92	176	75	114	sw.
Dean	McDonald	1,000	..	....	99	Aug. 6†	....	....	28	61.86	12.54	"	1.67	Feb.	14.0	98	232[j]	32[j]	91[j]	w.
Eldon	Miller	934	31	54.0	103	" 10	2	Dec. 15†	27	46.27	9.58	"	1.30	Jan.	17.6	106	109[d]	134[d]	118[d]	sw.
Farmington	St. Francis	918	16	55.0	104	July 3†	−12	Jan. 23	30	42.42	8.48	Aug.	2 03	Dec.	22.7	103	130	143	92	sw.
Gano	Dent	1,250	23	55.3	104	Aug. 10	− 6	" 23	26	38.59	5.15	Sept.	1.30	"	24.4	104	172	81	112	s.
Goodland	Iron	1,000	33	54.4	106	" 6	−20	" 23	34	41.73	5.70	Oct.	1.74	Jan.	27.5	75	170	86	109	s.
Greenville	Wayne	381	5	54.6	105	July 3	−14	" 23	5	47.26	5.46	Aug.	1.36	June	10.2	83	193[p]	46[p]	110[p]	s.
Hailey	Barry	1,350	..	....	....	....	....	....	2	39 78	6.82	"	1.18	Feb.	23.0	73	209	73	83	w.
Hollister	Taney	735	40	55.9	105	Aug. 6†	−16	Jan. 22	24	53.23	13.55	"	1.20	"	31.1	54	188	49	128	sw.
Koshkonong	Oregon	958	26	58.6	103	July 3	1	Jan. 22	26	43.94	7.01	Aug.	1.77	June	14.9	87	196[b]	61[b]	106[b]	n.
Lebanon	Laclede	1,265	39	53.6	104	Aug. 10	− 5	" 22	40	46.77	9.14	Sept.	1.41	Jan.	16.0	93	172	61	132	s.
Lockwood	Dade	1,078	21	54.2	98	" 9	3	" 23	31	44.63	12.07	"	0.62	July	9.7	76	201	49	116	sw.
Mountain Grove	Wright	1,463	26	55.0	103	" 6	− 4	" 23	28	40.91	9.38	"	1.82	Feb.	20.4	102	161	113	91	sw.
Neosho	Newton	1,011	39	57.2	100	" 6†	− 6	" 23	44	56.16	12.46	"	1.85	"	6.0	97	215	66	84	sw.
Rolla	Phelps	1,099	27	55.9	103	" 10	− 1	" 23	43	39.29	5.78	Aug.	1.65	Dec.	19.2	100	191[a]	89[a]	84[a]	s.
Seymour	Webster	1,642	21	54.8	100	" 6	−15	" 23	21	38.83	8.83	Sept.	0.53	Feb.	20.4	84	174	92	99	nw.
Springfield	Greene	1,350	39	55.1	98	" 6	1	" 23	39	40.48	8.33	"	1.02	July	21.4	120	179	89	97	s.
Section means and	extremes	....	..	55.3	106	Aug. 6	−20	Jan. 23	..	44.37	13.55	Aug.	0.50	Ju y	18.9	90	185	76	104	sw.
Southwest Plain.																				
Amoret	Bates	831	19	54.7	106	Aug. 9	1	Dec. 14†	19	38.57	7.73	Sept.	1.10	Dec.	16.1	81	210[g]	68[g]	80[g]	n.
Appleton City	St. Clair	853	33	55.9	103	" 9	1	" 15	35	37.61	7.68	"	1.58	Nov.	10.1	99	141	154	70	sw.
Clinton	Henry	765	34	56.9	104	July 3†	2	" 15	40	44.71	7.14	"	1.23	Jan.	13.5	90	163[j]	108[j]	84[j]	sw.
Harrisonville	Cass	904	50	53.2	106	Aug. 9	− 3	" 15	52	32.04	8.59	"	0.73	July	14.5	90	93	28	244	s.
Lamar	Barton	980	40	55.6	102	" 6	4	" 15†	46	47.60	11.37	"	1.39	May	20.5	79	180	85	100	sw.
Lamonte	Pettis	867	26	54.8	104	July 29†	− 1	" 15	40	51.59	8.69	"	1.62	Dec.	23.9	117	151	125	90	sw.
Marshall	Saline	779	38	54.6	104	" 2	− 2	Jan. 22†	38	45.46	9.44	"	1.83	"	32.5	113	145	76	135	nw.
Nevada	Vernon	862	34	56.1	103	Aug. 9	1	Dec. 15	35	35.53	8.74	"	1.22	May	13.3	70	201	56	108	sw.
Warsaw	Benton	687	27	57.1	104	" 10	2	" 15	32	45.76	11.67	Aug.	0.97	Jan.	9.3	84	191	76	98	w.
Section means and	extremes	....	..	55.6	106	Aug. 9	− 3	Dec. 15	..	40.91	11.67	Aug.	0.73	July	16.2	88	167	82	116	sw.
Northwest Plateau.																				
Chillicothe	Livingston	779	18	52.0	103	Aug. 9	− 8	Jan. 22†	21	......	11.59	Sept.	0.50	May	....	....	176	90	99	nw.
Conception	Nodaway	980	38	52.6	106	" 9	−11	" 22	43	40.22	14.61	"	0.73	Dec.	18.5	78	110	148	107	sw.
Edgerton	Platte	856	7	53.6	105	" 9	− 6	" 22	15	34.12	9.22	"	0.43	May	40.4	99	230[c]	25[c]	107[c]	s.
Kansas City	Jackson	963	38	54.8	103	" 9	0	" 22†	38	34.93	6.59	July	0.96	Dec.	35.0	122	140	119	106	s.
Kidder	Caldwell	1,020	34	50.7	105	" 9	−10	" 22†	39	42.33	13.89	Sept.	0.40	May	32.7	85	175	65	125	nw.
Lexington	Lafayette	688	42	54.2	104	" 9	− 1	" 22†	45	37.70	8.92	"	1.04	Jan.	28.0	91	154	105	106	s.
Maryville	Nodaway	1,036	37	52.4	103	" 9	− 7	" 22	33	45.63	18.04	"	0.78	Dec.	20.0	79	181	27	157	n.
Oregon	Holt	1,048	71	54.3	106	" 9	−10	" 22	71	37.45	9 79	"	0.88	"	29.0	98	181	116	68	sw.
St. Joseph	Buchanan	967	19	53.8	106	" 9	− 5	" 22	55	37.71	8.67	"	0.86	"	31.6	106	163	116	86	nw.
Tarkio	Atchison	916	24	49.8	100	July 20†	−10	" 22	34	37.02	13.26	"	0.50	April	26.0	78	142	83	140	nw.
Trenton	Grundy	822	31	52.2	97	Aug. 9	− 8	" 22	32	37.71	12.04	"	1.35	Dec.	24.0	99	154	122	89	s.
Section means and	extremes	....	..	52.7	106	Aug. 9	−11	Jan. 22	..	38.48	18.04	Sept.	0.40	May	28.5	94	164	93	108	s.
State means and	extremes	....	..	54.5	108	July 2	−20	Jan. 23	..	43.07	18.04	Sept.	0.40	May	22.9	96	161	87	117	sw.

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† Also on other dates.

a, b, c, indicate the number of days missing from records, a, 1; b, 2; c, 3; etc.

Monthly and Annual Precipitation for the Year 1926, with Departures

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Northeast Plain.																										
Boonville	1.19	−0.68	2.38	−0.04	2.27	−0.76	4.08	+0.17	2.72	−2.51	3.74	−1.73	3.61	−0.31	4.04	+0.31	8.52	+3.83	4.45	+1.62	2.19	−0.12	1.42	−0.49	40.61	−0.71
Brunswick	1.22	−0.41	2.27	+0.42	2.16	−0.40	3.70	+0.22	2.21	−2.68	4.40	−0.79	3.96	−0.68	3.32	−0.57	11.17	+6.78	4.46	+1.73	2.55	+0.58	1.26	−0.36	42.68	+3.84
Clifton Hill	1.61	+0.01	2.03	+0.70	3.30	+0.65	3.83	−0.53	4.16	−0.98	4.27	−0.07	3.52	−0.36	4.03	0.00	7.83	+2.97	4.33	+2.21	3.12	+1.21	2.04	+0.64	44.07	+6.45
Columbia	1.43	−0.80	2.04	−0.09	2.43	−0.60	4.96	+1.26	2.87	−1.99	2.91	−1.47	4.15	+0.50	5.07	+2.03	10.00	+7.15	3.72	+1.30	2.38	+0.07	1.60	−0.41	43.56	+6.95
Downing	0.72	−1.01	0.70	−0.70	1.28	−1.08	1.69	−2.06	3.13	−1.28	6.28	+1.90	4.32	−0.61	2.85	−0.67	14.13	+9.42	3.97	+1.77	2.36	+0.73	0.61	−0.85	42.04	+5.56
Fayette	1.89	−0.10	2.53	+0.63	1.91	−0.90	4.17	+0.63	2.59	−2.03	3.61	−0.93	5.54	+1.89	4.16	+0.94	10.37	+5.54	3.88	+1.40	3.51	+1.51	1.57	−0.06	45.73	+8.52
Fulton	0.99	−1.36	2.49	+0.60	2.76	−0.28	2.38	−1.95	3.40	−1.37	3.01	−1.19	3.77	−0.22	4.25	+0.74	10.06	+5.67	6.63	+3.88	2.43	+0.18	2.35	+0.43	44.52	+5.13
Gorin	0.92	−0.63	1.61	+0.12	1.68	−0.78	2.16	−1.84	2.25	−2.36	8.05	+4.14	2.55	−1.48	2.81	−0.19	12.94	+8.65	5.17	+2.79	2.62	+0.66	1.44	−0.25	44.20	+8.83
Hannibal	1.44	−0.76	2.34	+0.74	3.14	+0.38	3.93	+0.68	2.44	−2.56	4.93	+1.41	1.90	−1.85	6.31	+2.93	13.17	+9.61	2.95	+1.31	3.49	+1.54	1.07	−0.58	47.11	‡12.85
Hermann	1.19	−0.96	2.28	+0.05	3.58	+0.57	2.36	−1.58	2.90	−1.48	3.24	−1.08	3.15	−0.50	2.16	−1.03	11.05	+7.02	6.51	+3.72	2.93	+0.21	2.07	+0.25	43.42	+5.19
Jefferson City	1.08	−1.14	2.77	+0.68	2.48	−0.34	2.01	−1.53	4.88	+0.33	3.15	−0.87	4.74	+1.29	4.52	+1.46	9.71	+6.43	6.38	+3.79	2.83	+0.56	2.77	+0.92	47.32	‡11.58
Kirksville	0.84	−0.69	1.90	+0.08	2.34	−0.43	3.23	−0.41	1.97	−3.24	6.69	+2.42	2.64	−1.81	5.84	+2.52	9.72	+5.41	3.33	+0.60	3.41	+1.65	0.86	−0.78	42.77	+5.32
Louisiana	1.85	−0.17	3.44	+1.09	5.08	+2.18	3.89	+0.51	2.45	−2.11	5.96	+2.01	5.57	+2.45	8.34	+4.61	14.36	‡10.41	4.21	+1.58	4.85	+2.57	1.99	+0.30	61.99	‡25.43
Macon	1.46	−0.19	2.54	+0.59	3.26	+0.57	3.92	−0.73	1.96	−2.61	6.71	+2.30	2.75	−1.01	4.64	+1.36	13.12	+8.91	7.08	+4.35	2.40	+0.47	1.80	+0.40	51.64	‡14.41
Mexico	1.11	−0.94	2.42	+0.21	2.77	−0.02	4.59	+0.92	3.22	−1.54	2.96	−1.82	6.36	+2.61	5.48	+2.23	11.89	+7.21	4.34	+1.96	2.15	−0.17	1.17	−0.83	48.46	+9.82
Milan	1.98	......	2.65	......	3.35	......	1.51	......	4.15	......	4.28	......	3.65	......	2.85	......	11.09	......	4.22	......	2.75	......	1.17	......	43.65	......
Pacific	1.60	−0.81	2.00	−0.34	3.66	−0.05	2.85	−1.23	2.86	−2.13	1.76	−2.61	0.75	−3.33	5.41	+1.59	8.01	+4.15	5.49	+2.54	3.13	+0.38	1.24	−0.82	38.76	−2.66
St. Catharine(near)	1.38	+0.14	2.29	+1.05	2.14	−0.53	3.54	+0.01	2.67	−2.03	5.30	+0.52	....	......	3.86	+0.16	7.88	+3.78	....	......	....	......	....	......	....	......
St. Charles	1.37	−0.90	3.20	+0.57	2.43	−0.66	1.84	−1.84	2.24	−1.94	1.92	−2.04	1.33	−1.90	4.19	+0.73	7.87	+4.59	5.04	+2.37	2.64	+0.10	0.55	−1.32	34.62	−2.24
St. Louis(1)	1.69	−0.58	2.52	−0.23	3.95	+0.52	4.42	+0.90	1.58	−2.66	1.72	−2.75	0.54	−2.89	1.83	−0.83	7.40	+4.49	3.84	+1.43	2.71	−0.17	1.15	−1.08	33.35	−3.85
St. Louis(2)	1.57	−1.50	2.08	−0.23	3.83	+0.88	4.61	+0.60	1.46	−2.78	1.58	−2.18	0.65	−2.10	2.37	−3.24	8.15	+3.51	4.29	+0.50	3.26	+0.95	1.36	−0.74	35.21	−6.33
Shelbina	1.40	−0.32	2.28	+0.36	2.81	−0.04	3.60	+0.07	1.53	−2.45	8.28	+3.57	3.79	−0.37	4.91	+2.06	11.05	+7.07	4.19	+1.47	2.38	+0.30	1.27	−0.34	47.49	‡11.38
Steffenville	1.85	−0.34	2.02	+0.17	2.53	−0.38	3.19	−0.42	2.24	−2.71	7.68	+3.58	5.40	+0.97	5.87	+2.40	10.27	+6.08	3.03	+0.91	3.69	+1.76	0.58	−0.98	48.35	‡11.04
Union	1.34	+0.02	2.36	+0.96	3.61	+0.07	2.62	−2.01	2.73	−1.42	2.14	−1.67	1.53	−1.21	3.32	−1.85	11.25	+7.10	6.74	+3.00	3.81	+1.24	1.79	−0.71	43.24	+3.52
Unionville	1.34	−0.50	1.41	−0.42	2.20	−0.19	1.50	−2.31	2.85	−2.11	3.80	−0.88	2.00	−2.29	4.21	+0.25	13.91	+9.30	4.25	+1.79	1.35	−0.47	1.20	−0.44	40.02	+1.73
Warrenton	1.19	−1.19	2.02	−0.17	2.74	−0.63	1.89	−2.42	2.09	−2.70	3.18	−0.78	3.45	+0.03	5.48	+2.30	10.70	+6.66	3.50	+0.64	4.16	+1.57	2.02	−0.11	42.42	+3.20
Southeast Lowlands																										
Benton	....	......	1.93	......	3.30	......	2.89	......	1.30	......	2.14	......	3.81	......	6.56	......	3.25	......	3.46	......	4.38	......	4.22	......	....	......
Campbell	....	......	....	......	....	......	2.56	......	4.06	......	2.46	......	3.35	......	12.71	......	2.85	......	2.29	......	4.29	......	5.76	......	....	......
Cape Girardeau	2.84	−1.08	1.91	−0.27	3.21	−0.20	2.47	−1.47	0.76	−3.51	2.94	−0.78	1.41	−1.49	5.05	+0.78	2.79	+0.47	3.30	+0.06	4.02	+0.68	3.54	+0.25	34.24	−6.56
Caruthersville	5.55	+0.80	2.12	−1.68	5.53	+1.53	2.67	−1.45	4.42	+0.16	1.30	−2.68	2.12	−1.29	5.98	+2.41	1.80	−1.30	4.01	+1.05	....	......	....	......	....	......
Dexter	3.54	......	1.77	......	3.90	......	2.28	......	2.84	......	2.70	......	3.92	......	9.24	......	3.77	......	3.54	......	3.39	......	4.06	......	44.95	......
Doniphan	1.54	−2.67	4.39	+1.14	5.27	+1.68	2.26	−3.11	3.31	−0.85	1.29	−3.09	3.12	−1.61	9.30	+4.99	6.40	+2.76	4.53	+1.48	5.38	+2.26	4.97	+1.64	51.76	+4.62
Jackson	2.54	−1.18	2.36	−0.53	3.33	−1.01	2.11	−2.36	1.20	−3.16	2.43	−1.86	3.27	−0.25	4.84	+1.23	4.23	+0.68	3.75	+0.53	4.03	+0.90	3.24	+0.04	37.33	−6.97
Marble Hill	2.64	−0.89	3.50	+0.22	4.10	−0.08	2.72	−1.72	1.38	−2.85	2.05	−2.12	3.37	−1.31	4.42	+0.92	4.10	+0.47	4.25	+1.60	5.07	+1.90	4.44	+1.11	42.04	−2.75
Morehouse	4.04	−0.19	1.81	−1.45	3.82	−0.68	3.14	−1.12	2.27	−1.89	3.22	−0.66	3.39	−1.38	11.82	+8.01	2.62	−0.24	2.84	+0.24	3.67	+0.02	3.95	−0.06	46.59	+0.60
New Madrid	4.66	−0.70	1.65	−2.20	3.39	−1.86	3.13	−1.22	1.90	−2.69	1.83	−2.38	5.75	+1.84	8.53	+4.65	2.87	−0.44	4.40	+1.15	5.68	+1.83	6.74	+2.38	50.53	+0.36
Parma	3.70	......	1.61	......	3.93	......	3.01	......	2.53	......	1.61	......	1.57	......	11.09	......	2.88	......	2.67	......	4.91	......	6.06	......	45.57	......
Patton	2.00	−1.05	3.21	+1.27	3.30	−0.76	2.72	−0.76	1.04	−3.74	1.91	−1.76	2.92	−0.82	4.05	−0.49	3.65	+0.44	6.63	+3.46	4.62	+2.39	2.84	−0.18	38.89	−2.00
Poplar Bluff	3.40	−0.57	2.42	−0.54	3.79	−0.73	2.67	−1.80	3.71	−1.32	1.02	−4.00	5.55	+2.00	8.94	+4.67	4.89	+1.31	2.81	−0.39	4.21	+0.95	4.72	+0.54	48.13	+0.12
Sikeston	....	......	....	......	....	......	3.55	−0.71	1.40	−2.76	1.77	−2.11	8.65	+3.88	12.70	+8.89	2.23	−0.63	3.34	+0.74	4.76	+1.11	4.24	+0.23	....	......
Ozark Plateau																										
Arcadia	1.38	−1.84	2.05	−1.11	1.75	−2.32	2.21	−2.41	1.36	−3.42	2.22	−2.36	3.60	−0.64	7.22	+3.50	6.75	+3.11	4.92	+1.85	3.35	−0.27	1.94	−1.04	38.75	−6.95
Aurora	....	......	....	......	....	......	....	......	....	......	....	......	2.47	−2.89	6.05	+1.78	10.23	+6.50	3.18	−0.09	2.39	−0.40	2.02	−0.62	....	......
Birchtree (near)	2.16	−0.90	1.82	−0.67	3.35	−0.90	1.96	−2.76	4.13	−0.18	1.36	−3.17	5.00	+1.01	4.41	+0.02	5.58	+1.99	7.53	+4.95	3.07	+0.18	3.58	+1.01	43.95	+0.58
Bolivar	2.07	+0.18	1.11	−1.18	3.68	+0.64	2.13	−1.86	2.99	−2.43	4.44	−0.58	0.50	−3.25	3.73	+0.05	9.02	+4.92	4.50	+1.19	2.37	−0.16	1.62	−0.78	38.16	−3.26
Dean	2.51	+0.27	1.67	−0.16	2.80	−0.55	2.04	−2.00	7.82	+1.86	7.78	+2.51	5.18	+1.13	8.67	+4.40	12.54	+8.92	5.38	+1.89	2.73	−0.31	2.74	+0.62	61.86	‡18.58
Eldon	1.30	−0.24	2.13	+0.03	3.21	+0.38	1.58	−2.88	3.09	−1.77	4.12	−0.19	2.10	−1.56	5.50	+1.52	9.58	+5.78	8.66	+5.63	2.48	+0.27	2.52	+0.36	46.27	+7.33
Farmington	2.19	−0.16	2.72	−0.57	2.08	−1.19	2.35	−1.61	2.74	−2.76	3.03	−1.60	2.79	−0.76	8.48	+5.10	5.91	+2.69	5.05	+2.16	3.05	−0.91	2.03	−0.68	42.42	−0.29
Fredericktown	2.64	......	4.08	......	2.23	......	1.59	......	0.62	......	0.34	......	2.44	......	8.55	......	4.17	......	6.10	......	2.98	......	2.14	......	37.88	......
Galena	2.43	+0.07	1.38	−0.70	2.26	−1.61	1.21	−2.27	6.17	+0.93	3.99	+0.43	1.55	−2.78	6.74	+3.10	....	......	4.27	+1.83	4.79	+1.89	2.16	−0.46	....	......
Gano	2.36	−0.49	3.22	+0.84	3.58	+0.28	1.94	−2.61	3.44	−1.10	2.18	−2.12	1.50	−2.00	4.87	+0.46	5.13	+0.87	4.59	+0.71	4.48	+2.17	1.30	−0.71	38.59	−3.70
Goodland	1.74	−1.13	2.70	+0.21	3.62	−0.63	2.61	−2.48	5.44	+0.82	1.91	−2.19	3.26	−0.92	4.96	+0.93	5.42	+1.69	5.70	+2.48	2.48	−0.41	1.89	−0.59	41.73	−2.22
Greenville	2.51	......	3.18	......	4.61	......	1.97	......	4.11	......	1.36	......	4.81	......	5.46	......	4.79	......	5.01	......	4.89	......	4.56	......	47.26	......
Hailey	3.05	......	1.18	......	3.11	......	1.22	......	5.20	......	3.95	......	3.29	......	6.82	......	5.09	......	1.35	......	3.32	......	2.20	......	39.78	......
Hollister	2.90	+0.29	1.20	−0.88	3.71	+0.48	1.60	−2.97	3.90	−0.33	3.10	−0.91	3.80	−0.12	13.55	+9.58	8.50	+4.79	4.25	+1.42	2.62	−0.16	4.10	+1.83	53.23	‡13.02
Jerome	....	......	....	......	3.67	+1.01	3.75	−0.06	2.82	−1.64	3.24	−0.29	2.03	−1.20	6.75	+2.51	....	......	....	......	....	......	....	......	....	......
Koshkonong	2.61	−0.93	2.01	−0.78	4.42	+0.61	2.34	−2.63	1.90	−2.94	1.77	−2.71	3.88	−0.04	7.01	+2.56	4.91	+1.42	4.64	+1.73	4.52	+1.50	3.93	+0.77	43.94	−1.44
Lebanon	1.41	−1.04	1.74	−0.76	2.58	−0.87	1.65	−2.53	2.08	−3.53	5.20	+0.27	2.44	−1.68	7.91	+4.38	9.14	+5.05	6.50	+3.24	3.77	+1.23	2.35	−0.25	46.77	+3.51
Lockwood	1.96	+0.30	1.10	−0.87	3.01	+0.56	1.74	−1.92	2.78	−2.30	4.84	+0.04	0.62	−4.25	5.96	+1.79	12.07	+8.07	5.50	+2.05	2.63	+0.42	2.42	+0.48	44.63	+4.37
Mountain Grove	2.05	−0.82	1.82	−0.44	3.01	−1.33	1.89	−2.89	4.13	−0.72	2.47	−2.09	2.06	−1.94	4.04	−0.36	9.38	+5.34	3.56	+0.51	4.59	+2.16	1.91	−0.32	40.91	−2.90
Neosho	2.29	−0.21	1.85	−0.53	2.71	−0.76	1.94	−2.18	5.08	−0.99	6.69	+1.26	2.82	−1.36	9.68	+5.59	12.46	+8.24	4.03	+0.64	3.73	+0.67	2.88	+0.34	56.16	‡10.71
Owensville	1.22	......	3.27	......	3.71	......	2.37	......	3.13	......	3.05	......	1.34	......	3.88	......	5.85	......	7.49	......	2.60	......	1.44	......	39.35	......
Rolla	2.15	−0.30	2.10	−0.24	3.05	−0.54	2.39	−2.27	2.07	−2.94	2.43	−1.70	1.89	−2.20	5.78	+1.70	5.73	+1.89	5.58	+2.63	4.47	+2.16	1.65	−0.42	39.29	−2.23
Seligman	2.29	+0.05	1.19	−0.69	3.78	−0.16	2.90	−1.03	4.70	−0.89	4.79	+1.26	3.14	−1.26	9.77	+5.78	....	......	....	......	3.49	+1.13	2.71	+0.14	....	......
Seymour (near)	2.34	−0.36	0.53	−1.92	2.68	−1.38	1.22	−2.74	2.47	−3.23	3.71	−0.92	1.41	−3.34	5.09	+1.25	8.83	+4.25	4.81	+1.80	3.88	+1.55	1.86	−0.19	38.83	−5.23
Springfield	2.28	−0.38	1.15	−1.12	2.51	−1.56	1.07	−2.79	4.50	−1.05	3.97	−1.22	1.02	−3.77	6.63	+2.32	8.33	+4.57	4.14	+1.34	2.96	+0.32	1.92	−0.75	40.48	−4.09
Steelville	1.71	−0.14	2.77	+0.51	3.15	+1.07	2.28	−2.03	3.17	−1.17	2.64	−1.51	2.12	−1.08	3.40	−0.11	6.71	+3.51	6.97	+3.76	3.52	+0.84	1.11	−0.80	39.55	+2.85
Stover	1.37	......	2.00	......	2.80	......	2.27	......	4.11	......	3.88	......	4.11	......	7.11	......	7.70	......	4.57	......	2.14	......	1.76	......	43.82	......
Tuscumbia	1.20	......	2.14	......	3.10	......	1.53	......	2.88	......	2.72	......	1.30	......	5.02	......	8.32	......	8.01	......	2.67	......	2.63	......	41.52	......
Willow Springs(near)	2.75	......	2.00	......	3.93	......	2.58	......	3.64	......	1.82	......	1.82	......	5.01	......	7.59	......	6.47	......	3.94	......	3.09	......	44.64	......
Southwest Plain																										
Amoret	2.29	+1.00	1.90	−0.25	2.57	+0.07	1.79	−2.21	3.26	−1.56	2.33	−1.53	1.97	−1.99	4.86	+0.85	7.73	+3.83	7.08	+4.56	1.69	+0.03	1.10	−0.49	38.57	+2.31
Appleton City	1.65	−0.18	1.82	−0.15	2.65	−0.42	2.07	−2.19	2.18	−3.36	2.91	−2.08	2.40	−2.23	6.96	+3.22	7.68	+4.01	4.01	+1.67	1.58	−0.55	1.70	+0.06	37.61	−2.20
Clinton	1.23	−0.75	2.16	+0.06	3.10	+0.24	2.15	−1.89	3.65	−1.79	2.42	−2.31	4.23	−0.29	6.98	+3.62	7.14	+3.32	6.16	+3.35	3.18	+1.30	2.31	+0.58	44.71	+5.44
Concordia	2.27	......	2.12	......	1.93	......	3.63	......	2.18	......	1.97	......	4.08	......	2.97	......	9.58	......	5.43	......	2.25		1.54	......	39.95	......
Harrisonville	1.37	−0.23	1.39	−0.63	3.29	+0.60	1.94	−1.45	2.86	−1.95	2.23	−2.23	0.73	−3.05	2.90	−1.25	8.59	+4.23	4.65	+2.06	0.97	−0.98	1.12	−0.66	32.04	−5.54
Joplin	1.89	−0.19	1.71	−0.53	2.39	−0.50	1.81	−2.44	3.41	−1.75	6.43	+1.09	2.45	−1.96	7.81	+3.55	12.00	+8.75	6.68	+3.38	3.19	+0.63	2.62	+0.76	52.39	‡10.79
Lamar	1.94	+0.24	1.45	−0.78	3.11	+0.21	1.97	−2.18	1.39	−4.07	7.09	+2.13	1.66	−2.58	7.38	+3.20	11.37	+7.13	4.14	+1.01	3.20	+0.96	2.90	+0.95	47.60	+6.22
Lamonte	3.71	+1.93	4.20	+0.29	3.37	+0.77	3.57	−0.20	3.69	−1.26	3.79	−0.70	3.53	−0.47	6.63	+2.91	8.69	+4.19	5.98	+3.65	2.81	+0.91	1.62	−0.04	51.59	‡11.98
Marshall	1.86	+0.04	2.59	+0.75	2.88	+0.17	3.60	−0.09	2.60	−2.26	3.29	−1.03	5.13	+1.17	5.59	+1.93	9.44	+4.56	3.28	+0.70	3.37	+1.29	1.83	+0.17	45.46	+7.40
Nevada	1.80	−0.17	1.41	−0.67	1.81	−1.18	2.28	−1.51	1.22	−4.50	2.98	−2.13	2.46	−1.47	4.55	+1.04	8.74	+4.58	3.75	+0.67	2.23	+0.35	2.30	+0.44	35.53	−4.55
Osceola	1.92	−0.20	1.62	−0.17	3.53	+0.60	1.84	−2.21	2.22	−3.73	2.97	−1.78	0.51	−3.53	9.55	+5.93	9.89	+5.38	6.11	+3.28	3.27	+0.49	2.81	+0.59	46.24	+4.65
Warrensburg	1.65	−0.14	2.31	+0.18	2.57	+0.03	3.57	+0.37	3.49	−1.17	3.20	−1.56	3.29	−0.66	5.86	+2.27	7.97	+4.38	4.55	+2.00	....	......	....	......	....	......
Warsaw	0.97	−1.41	1.96	−0.60	2.87	−0.36	2.19	−2.03	3.46	−1.77	2.40	−2.77	2.10	−2.20	11.67	+7.38	7.46	+3.14	4.70	+1.39	4.90	+2.49	1.08	−1.24	45.76	+2.02
Waverly	1.40	−0.22	2.75	+1.61	2.73	−0.49	3.48	−0.81	3.16	−2.15	3.28	−1.84	3.26	−0.10	3.74	−0.25	11.25	+6.31	4.51	+2.43	1.78	−0.06	1.33	+0.30	42.67	+4.73
Northwest Plateau																										
Albany	0.41	......	1.50	......	0.74	......	0.70	......	1.90	....	4.09	......	2.60	......	2.79	......	17.94	......	3.60	......	0.25	......	0.80	......	37.32	......
Bethany	....	......	....	......	....	......	....	......	2.87	−2.11	4.89	+0.41	1.62	−2.89	2.18	−1.70	14.13	‡10.27	3.92	+1.71	0.77	−1.00	0.71	−0.64	....	......
Chillicothe	....	......	2.72	+0.71	1.98	−0.80	3.43	−1.01	0.50	−4.21	7.80	+2.73	1.39	−3.19	4.24	−0.42	11.59	+5.85	4.04	+0.59	1.86	−0.47	0.95	−0.70	....	......
Conception	1.15	+0.20	0.83	−0.36	1.06	−0.69	0.76	−2.05	2.17	−2.60	5.49	+0.94	3.02	−1.28	3.97	+0.49	14.61	‡10.76	5.21	+2.76	1.22	−0.14	0.73	−0.26	40.22	+7.77
Edgerton	1.45	+0.18	1.64	+0.19	1.83	−0.92	3.19	−0.35	0.43	−5.02	3.71	−1.40	3.61	−1.19	2.92	−0.92	9.22	+5.94	4.48	+2.23	0.85	−0.62	0.79	−0.54	34.12	−2.42
Gallatin	0.96	−0.23	1.58	−0.02	0.91	−1.64	0.55	−3.17	....	....	5.28	−0.03	2.43	−1.92	3.02	−1.10	12.39	+8.35	5.15	+2.53	1.45	−0.33	0.97	−0.55	....	......
Grant City	0.62	−0.34	....	......	....	......	....	......	5.33	+0.60	4.18	−0.37	6.09	+0.93	3.23	−0.40	14.10	‡10.11	3.67	+0.95	1.07	−0.54	0.81	−0.35	....	......
Kansas City	1.56	+0.43	2.46	+0.87	2.21	−0.61	2.52	−0.77	1.53	−3.58	1.55	−3.11	6.59	+1.75	3.87	−0.88	6.33	+2.57	4.27	+2.06	1.08	−0.77	0.96	−0.40	34.93	−2.44
Kidder	1.87	+0.57	1.94	+0.42	1.63	−0.67	2.03	−1.01	0.40	−4.81	8.42	+4.06	3.36	−0.57	2.08	−1.83	13.89	+9.65	4.82	+2.20	1.31	−0.53	0.58	−0.72	42.33	+6.76
King City	1.08	......	1.47	......	1.76	......	1.69	......	1.58	......	6.27	......	2.71	......	3.41	......	11.75	......	5.48	......	....	......	0.49	......	....	......
Lexington	1.04	−0.53	2.58	+0.58	2.26	−0.11	3.02	−0.34	1.29	−3.77	2.78	−1.99	3.33	+1.39	3.58	+0.35	8.92	+4.48	5.89	+3.32	1.45	−0.40	1.56	−0.16	37.70	+2.82
Maryville	1.09	+0.01	0.93	−0.51	1.10	−0.78	0.88	−2.03	2.90	−2.85	4.99	+0.36	4.99	−0.40	3.25	−0.61	18.04	‡13.83	5.74	+3.07	0.94	−0.71	0.78	−0.27	45.63	+9.11
Oregon	1.30	−0.09	1.44	−0.18	1.27	−0.75	1.44	−1.85	2.19	−2.67	4.39	−0.34	4.75	+0.43	2.97	−1.00	9.79	+6.05	5.62	+3.06	1.41	−0.28	0.88	−0.56	37.45	+1.82
St. Joseph	1.45	+0.65	2.14	+0.67	2.22	−0.20	1.66	−1.27	0.99	−3.57	5.44	+0.82	3.78	+0.74	4.60	+1.34	8.67	+3.76	4.82	+2.40	1.08	−0.38	0.86	−0.24	37.71	+4.72
Tarkio	0.96	+0.17	0.85	−0.22	1.23	−0.47	0.50	−2.67	2.93	−1.73	5.61	+0.80	2.92	−0.79	3.95	+0.08	13.26	+9.76	2.20	−0.37	1.71	+0.26	0.90	−0.02	37.02	+9.37
Trenton	1.41	+0.03	1.92	+0.39	1.59	−0.85	1.67	−1.60	3.17	−2.17	4.23	−0.07	3.66	−0.67	2.04	−1.58	12.04	+7.78	3.27	+0.71	1.36	−0.44	1.35	0.00	37.71	+1.53

‡ Indicates plus. * Indicates minus.

Monthly and Annual Mean Temperatures for the Year 1926, with Departures

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Northeast Plain.																										
Brunswick	30.2	+ 3.4	36.8	+ 7.7	38.6	− 3.3	48.0	− 6.1	68.8	+ 4.5	71.9	− 1.3	78.8	+ 3.1	78.3	+ 4.5	69.4	+ 2.7	57.1	+ 1.9	40.2	− 1.3	32.0	+ 1.4	54.2	+ 1.4
Clifton Hill	31.4	+ 2.7	36.4	+ 7.2	37.6	− 4.6	47.1	− 6.4	65.6	+ 1.4	69.2	− 3.8	76.6	+ 0.2	76.2	0.0	66.8	− 2.1	55.4	− 1.8	38.4	− 5.4	31.4	+ 0.3	52.7	− 1.0
Columbia	32 6	+ 3.4	38.7	+ 7.0	37.8	− 4.8	48.3	− 6.6	67.0	+ 2.7	70.0	− 2.8	77.2	+ 0.3	76.2	+ 0.6	68.5	+ 0.3	55.9	− 0.7	39.4	− 3.9	32.2	− 1.0	53.6	− 0.5
Downing	28.8	......	35.0	......	36.4	......	46.5	......	66.6	......	68.0	......	76.5	......	76.4	......	66.3	......	54.4	......	37.6	......	28.2	......	51.7	......
Fayette	27.8[a]	+ 0.6	....	......	36.2	− 5.9	45.1	− 9.2	64.6	+ 0.3	68.0	− 5.3	76.3	− 1.1	75.8	− 0.3	67.2	− 1.1	53.6	− 3.1	36.3	− 6.0	29.8	− 1.4	....	......
Fulton	31.0	+ 1.3	38.0	+ 5.3	37.9	− 6.5	48.4	− 5.9	67.0	+ 2.0	71.3	− 2.3	77.8	− 0.1	77.2	+ 0.7	69.4[a]	+ 0.5	56.2	− 1.5	38.2	− 6.3	30.5	− 3.2	53.6	− 1.3
Hannibal	30.9	+ 3.8	36.8	+ 7.1	36.2	− 4.8	46.6	− 6.8	66.4	+ 2.8	69.3	− 3.2	77.8	+ 1.0	76.8	+ 1.8	67.7	0.0	55.4	− 0.6	39.0	− 3.1	30.6	− 0.9	52.8	− 0.2
Jefferson City	31.7	+ 1.9	38.5	+ 7.6	38.4	− 4.8	48.1	− 8.0	67.2	+ 2.3	70.6	− 3.4	78.0	− 0.1	77.5	+ 0.8	69.1	0.0	55.4	− 1.3	39.4	− 4.7	29.7	− 3.1	53.6	− 1.7
Kirksville	28.8[a]	+ 3.9	35.6	+ 9.7	36.2	− 3.3	46.0	− 5.7	66.5	+ 4.0	68.4	− 3.8	76.0	− 0.1	75.7	+ 1.7	65.1	− 0.9	54.2	− 0.5	37.3[a]	− 3.2	28.0[a]	− 1.6	51.5	0.0
Louisiana	32.8	+ 4.9	38.4	+ 8.7	38.9	− 4.4	48.9	− 4.7	66.6	+ 2.8	71.6	− 0.5	77.2	+ 0.8	77.4	+ 2.4	69.2	+ 1.3	55.9	− 0.4	40.8	− 3.4	32.6	+ 1.1	54.2	+ 0.7
Macon	28.5	0.0	34.9	+ 6.2	36.8	− 5.8	46.0	− 7.1	66.6	+ 2.7	69.0	− 4.0	77.4	0.0	76.3	0.0	66.1	− 2.2	55.0	− 1.8	37.6	− 5.8	28.5[a]	− 1.9	51.9	− 1.6
Mexico	29.8	+ 1.5	36.0	+ 6.7	37.9	− 4.1	48.0	− 5.7	67.1	+ 2.8	70.0	− 3.7	77.7	+ 0.4	76.2	+ 0.1	68.2	− 0.4	56.3	− 0.1	37.8	− 5.2	30.0	− 1.8	52.9	− 0.8
St. Catharine	30.3	+ 3.9	36.2	+ 7.2	37.6	− 4.9	46.4	− 5.0	66.4	+ 3.9	69.6	− 2.9	....	......	....	.....	68.4	+ 0.6	....	......	....	......	....	......	....	......
St. Charles	34.3	+ 3.2	39.8	+ 7.3	41.1[k]	− 3.3	49.6	− 5.8	67.4	+ 4.4	71.0	− 3.2	81.0	+ 2.9	79.7	+ 3.0	71.3	+ 3.4	58.8	+ 0.7	39.8	− 5.7	32.8	− 2.1	55.6	+ 0.4
St. Louis(1)	34.6	+ 3.4	40.2	+ 5.4	39.6	− 4.5	50.3	− 5.8	68.5	+ 1.5	72.6	− 2.4	81.0	+ 2.3	79.4	+ 1.9	70.9	+ 0.4	58.4	− 0.4	40.4	− 5.0	33 4	− 1.5	55.8	− 0.4
St.Louis(2)	34.0	+ 3.8	39.6	+ 7.4	38.8	− 4.8	49.7	− 5.5	67.8	+ 1.7	72.0	− 2.9	80.6	+ 0.5	79.0	+ 1.8	70.8	+ 0.6	57.9	− 1.0	40.2	− 6.3	33.0	− 1.3	55.3	− 0.5
Steffenville	30.4	+ 2.6	36.6	+ 8.2	38.3	− 4.1	46.8[a]	− 6.1	67.9	+ 3.8	71.2	− 2.0	78.6	+ 0.6	78.0	+ 1.3	68.5	− 0.6	57.0	− 0.7	39.6	− 4.2	30.2	− 0.4	53.6	− 0.1
Unionville	28.8	+ 5.3	35.4	+10.0	36.0	− 2.6	46.0	− 4.7	66.6	+ 4.2	68.0	− 3.8	76.6	0.0	75.4	+ 0.4	66.0	− 1.2	54.5	− 0.9	36.8	− 3.4	27.8	+ 0.4	51.5	+ 0.3
Warrenton	34.1	+ 5.1	40.4	+10.5	39.5	− 2.7	49.5	− 5.0	67.8	+ 2.8	70.8	− 2.8	78.2	+ 0.4	78.6	+ 2.2	70.1	+ 1.3	57.4	+ 1.8	39.8	− 3.1	33.0	+ 1.0	54.9	+ 1.0
Keokuk, Ia	28.8	+ 3.9	35.1	+ 6.8	34.8	− 4.1	46.0	− 6.3	65.8	+ 2.0	68.6	− 3.9	77.4	+ 0.5	76.0	+ 1.0	66.2	− 1.3	54.2	− 1.2	37.8	− 3.3	27.8	− 1.8	51.5	− 0.6
Section Means	31.0	+ 3.1	37.3	+ 7.5	37.7	− 4.4	47.6	− 6.1	66.9	+ 2.8	70.1	− 3.1	77.9	+ 0.5	77.2	+ 1.3	68.3	+ 0.1	55.9	− 0.6	38.8	− 4.4	30.7	− 0.9	53.3	− 0.4
Southeast Lowlands.																										
Campbell	....	......	....	......	....	......	55.0	......	68.4	......	74.8	......	79.6	......	78.2	......	74.4	......	61.5	......	44.1	......	38.5	......	....	......
Caruthersville	38.6	− 0.4	45.2	+ 6.3	45.0	− 6.2	56.4	− 3.8	71.4	+ 1.9	76.6	− 1.2	81.6	+ 1.0	80.6	+ 0.9	77.5	+ 4.1	64.4	+ 2.7	....	......	....	......	....	......
Doniphan	35.6	− 0.6	43.9	+ 5.8	42.8	− 6.6	54.4	− 3.6	67.2	+ 0.3	73.4	− 1.4	79.4	+ 1.2	78.2	+ 0.8	73.0	+ 2.2	59.4	+ 1.0	42.3	− 5.3	35.6	− 1.8	57.1	− 0 7
Jackson	32.2	− 1.8	40.5	+ 5.0	40.4	− 6.8	52.6	− 4.3	68.4	+ 2.6	72.5	− 1.6	78.6	+ 1 2	77.4	+ 1.2	73.0	+ 3.1	59.0	+ 1.0	41.4	− 5.3	35.0	− 1.6	55.9	− 0.6
Marble Hill	35.3	+ 0.5	42.8	+ 7.5	41.8	− 5.6	53.8	− 2.9	67.1	+ 1.4	72.0	− 1.9	79.5	+ 2.2	78.0	+ 1.0	72.9	+ 2.5	59.0	+ 1.0	41.4	− 3.0	35.0	− 1.2	56.6	+ 0.1
Poplar Bluff	36.4	− 0.2	44.2	+ 7.9	43.8	− 5.0	55.4	− 3.8	68.0	0.0	73.9	− 1.5	79.0	+ 0.3	78.9	+ 0.9	74.5	+ 3.2	61.1	+ 0.8	43.5	− 3.9	37.0	+ 0.2	58.0	− 0.1
Sikeston	....	......	....	......	....	......	54.2	− 3.7	69.2	+ 0.6	75.1	+ 0.6	80.2	+ 2.1	79.0	+ 1.4	74.6	+ 4.0	61.1	+ 2.3	41.4	− 6.0	36.5	− 1.0	....	......
Cairo, Ill	36 8	+ 1.9	43.0	+ 4.5	43.0	− 4.2	53.9	− 4.2	68.8	+ 0.4	74.1	− 2.2	80.0	+ 0 4	78.4	+ 0.6	74.4	+ 2.9	61.2	+ 0.8	43.2	− 4.1	37.2	− 0.6	57.8	− 0.3
Section means	35.8	− 0.1	43.1	+ 5.8	42.8	− 5.7	54.2	− 3.8	68.6	+ 1.0	74.0	− 1.3	79.7	+ 1.2	78.6	+ 1.0	73.8	+ 3.0	60.8	+ 1.4	42.5	− 4.6	36.4	− 1.0	57.5	− 0.3
Ozark Plateau																										
Arcadia	31.6	− 0.5	38.8	+ 5.3	38.4	− 6.4	50.4	− 4.9	64.4	− 0.2	67.8	− 4.2	75.9	0.0	75.6	+ 1.1	68.8	+ 1.2	55.6	− 0.5	38.0	− 6.0	31.0	− 3.3	53.0	− 1.5
Aurora	....	......	....	......	....	......	....	......	....	......	....	.....	76.0	− 1.8	76.3	− 0.5	70.2	− 0.5	59.6	+ 1.1	42.5	− 3.5	37.4	+ 2.3	....	......
Birchtree	35.8	+ 1.4	42.2	+ 7.3	41.4	− 6.0	52.9	− 3.9	66.1	+ 0.9	70.8	− 1.9	78.2	+ 1.8	77.2	+ 1.3	72.1	+ 2.6	59.0	+ 0.8	42.0	− 4.5	35.4	− 0.4	56.1	0.0
Bolivar	34.2	+ 0.3	41.7	+ 7.3	41.6	− 4.5	51.0	− 5.1	66.8	+ 1.9	70.5	− 2.3	78.2	+ 1.1	77.7	+ 0.7	73.6	+ 4.0	59.8	+ 1.3	42.2	− 4.6	36.4	+ 0.6	56.1	+ 0.1
Eldon	32.4[c]	+ 1.0	39.8[a]	+ 7.9	38.4	− 5.1	49.9	− 5.5	66.7	+ 2.2	71.2	− 2.0	78.0[c]	+ 1.0	77.2[a]	+ 0.8	68.5	− 0.8	55.2	− 2.5	39.0	− 6.2	31.6	− 2.7	54.0	− 1.0
Farmington	35.1	+ 2.3	40.6	+ 5.0	40.8	− 6 1	50.8	− 6.1	66.0	+ 2.2	70.2	− 2.4	78.2	+ 2.9	78.0	+ 3.2	71.2	+ 1.9	57.3	+ 0.9	39.2	− 5.1	33.2	− 3.8	55.0	− 0.4
Gano	34.6	+ 1.7	41.5	+ 7.0	40.4	− 6.5	52.0	− 3.6	66.4	+ 1.1	70.1	− 2.7	78.9	+ 2.0	77.8	+ 1.7	70.8	+ 1.3	57.6	− 0.4	39.6	− 7.2	33.7	− 1.5	55.3	− 0.6
Goodland	33.8	+ 1.2	40.7	+ 7.8	40.4	− 4.5	51.5	− 3.1	64.8	+ 0.3	68.6	− 3.5	75.2	− 0.4	77.2	+ 2.7	70.6	+ 3.3	57.5	+ 1.7	39.6	− 5.0	33.2	− 1.2	54.4	− 0.1
Greenville	34.0	......	40.0[b]	......	41.2	......	53.6[c]	......	64.0	......	70.7		76.4	......	75.9	......	70.0[c]	......	56.6	......	38.9[h]	......	33.7	......	54.6	......
Hollister	36.6	+ 0.6	44.0	+ 6.0	43.2	− 5.5	49.9	− 9.8	63.8	− 3.5	69.8	− 5.9	78.0	− 1.4	78.6	+ 0.7	71.9	+ 0.3	60.4	0.0	40.2	− 8.0	34.8	− 4.9	55.9	− 2.6
Koshkonong	38.8	+ 2.3	45.4	+ 7.9	44.4[b]	− 5.2	55.7	− 2.1	68.2	+ 1.4	73.0	− 1.3	81.2	+ 2.9	78.1	+ 0.4	73.0	+ 2.1	61.0	+ 1.0	44.6[a]	− 4.8	40.2	+ 2.6	58.6	+ 0.6
Lebanon	32.2	− 0.8	41.0	+ 7.1	38.7	− 6.7	48.4	− 7.3	65.0	− 0.6	67.8	− 5.3	76.8	− 0.1	76.0	− 0.3	69.2	− 0.3	56.6[a]	− 1.4	38.6	− 7.4	33.0	− 2.0	53.6	− 2.1
Lockwood	34.0	+ 0.7	41.6	+ 6.1	39.9	− 8.0	49.8	− 6.2	64.2	− 0.4	69.7	− 4.3	75.0	− 2.6	74.8	− 2.4	68.3	− 3.0	57.8	− 0.8	40.0	− 7.7	35.0	− 0.5	54.2	− 2.4
Mountain Grove	32.6	− 0.6	40.1	+ 6.3	39.2	− 6.8	52.3	− 1.9	66.2	+ 2.3	70.6	− 1.0	78.3	+ 2.3	77.6	+ 2.5	71.0	+ 2.6	58.5	+ 0.9	40.0	− 6.6	33.6	− 0.7	55.0	− 0.1
Neosho	36.8	+ 1.7	44.6	+ 8.0	44.0	− 4.2	53.4	− 4.6	66.8	+ 0.6	71.9	− 2.0	76.4	− 1.2	77.1	+ 0.2	71.8	+ 1.5	60.7	+ 1.5	43.9	− 3.3	38.4	+ 1.7	57.2	0.0
Rolla	35.8	+ 4.5	42.4	+ 7.2	41.6	− 3.4	52.6	− 2.4	67.4	+ 2.9	71.4	− 1.4	78.6	+ 1.2	77.7	+ 1.9	70.4	+ 2.4	57.4	+ 1.5	40.2	− 4.7	34.8	+ 1 2	55.9	+ 0.9
Seligman	36.4	+ 1.7	44.0[c]	+ 7.8	43.2[a]	− 3.0	53.7[c]	− 2.1	66.4	+ 1.5	70.0	− 2.5	76.4[d]	− 0.2	77.4	+ 1.8	74.8[j]	+ 6.0	....	......	42.8[a]	− 4.4	39.2[j]	+ 2.6	....	......
Seymour(near)	34.0	− 0.3	41.5	+ 9.1	40.1	− 5.1	50.8	− 4.6	65.1	+ 1.0	68.8	− 3.2	75.4	− 0.1	75.8	+ 0.8	70.4	+ 1.8	57.6	+ 0.1	42.2	− 3.9	35.4	+ 1.0	54.8	− 0.3
Springfield	34.0	+ 0.5	41.2	+ 6.0	39.9	− 5.3	51.3	− 4.7	66.2	+ 1.7	69.8	− 2.7	77.4	+ 0.6	76.8	+ 1.1	70.0	+ 1.1	58.2	0.0	40 5	− 5.2	35.4	− 0.8	55.1	− 0.6
Section Means	34.6	+ 1.0	41.7	+ 7.0	41.0	− 5.5	51.7	− 4.6	65.8	+ 0.9	70.1	− 2.9	77.2	+ 0.4	77.0	+ 1.0	70.4	+ 1.0	58.1	+ 0.3	40.7	− 5.4	35.0	− 0.7	55.3	− 0.6
Southwest Plain.																										
Amoret	34.0	+ 3.5	40.4	+ 6.7	41.4	− 2.5	48.8	− 5.7	65.4	+ 2.1	70.6	− 2.9	78.0	+ 0.4	77.6	+ 1.2	69.4	+ 0.7	58.2	+ 1.1	39.2	− 6.3	33.5[g]	+ 1.0	54.7	− 0.1
Appleton City	35.0	+ 3.7	41.6	+ 9.3	41.4	− 3.2	50.4	− 5.4	68.0	+ 2.9	71.8	− 3.0	79.1	+ 0.8	78.2[c]	+ 0.4	69.8	− 0.5	58.6	− 0.5	41.8	− 4.3	34.7	+ 0.4	55.9	0.0
Clinton	35.3	+ 3.9	42.0	+10.1	42.9[b]	− 1.4	51.8[a]	− 3.9	68.9	+ 3.7	74.0	+ 0.6	80.2[a]	+ 2.7	79.2	+ 2.4	70.8[b]	+ 0.6	59.6	+ 1.0	42.3	− 5.0	36.3[h]	+ 1.9	56.9	+ 1.4
Harrisonville	30.9	+ 3.7	37.2	+ 7.5	38 6	− 2.3	47.0	− 6.8	67.0	+ 3.0	70.2	− 3.2	78.6	+ 0.8	78.0	+ 2.2	66.9	− 1.4	56.2	+ 0.2	38.5	− 3.9	29.8	− 1.4	53.2	− 0.1
Lamar	33.4	+ 1.0	41.0	+ 6.5	41.2	− 5.0	49.8	− 6.8	68.2	+ 2.3	71.2	− 3.2	77.8	− 0.7	78.4	+ 0.9	70.6	0.0	59.2	+ 0.3	41.4	− 5.2	34.6	− 0.6	55.6	− 0.9
Lamonte	33.0	+ 4.3	39.0	+ 7.4	39.7	− 4.0	49.0	− 6.1	68.2	+ 3.5	71.6	− 2.7	79.2	− 0.3	78.5	+ 1.8	69.5	− 0.6	57.7	− 0.3	40.2	− 4.2	32.4	− 1.8	54.8	− 0.2
Marshall	32.2	+ 4.6	38.6	+ 9.1	40.2	− 2.3	49.4	− 5.0	69.0	+ 4.9	72.2	− 1 7	79.2[a]	+ 1.9	78.8[c]	+ 3.2	69.0[a]	+ 0.7	56.4[c]	− 0.2	38.9[c]	− 6.7	31.4[b]	− 0.2	54.6	+ 0.7
Nevada	35.6	+ 3.9	42.6	+10.7	41.6	− 2.7	50.8	− 4.3	67.2	+ 2.6	71.4	− 2.2	78.6	− 1.6	78.4	+ 1 5	70.0	+ 0.9	58.7	+ 1.4	42.8	− 1.6	35.8	+ 1.9	56.1	+ 0.9
Warrensburg	34.6	+ 5.7	40.8	+ 9.5	41.6	− 2.0	50.4	− 5.7	68 6	+ 3.3	72 8	− 1.4	79.4	+ 0.6	78.8	+ 1.8	69.8	− 0.3	58.4	+ 0.3	....	......	....	......	....	......
Warsaw	38.2	+ 5.4	42.6	+ 8.8	42.8	− 4.1	52.4	− 3.4	68.0	+ 2.2	72 6	− 1.1	79.8	+ 1.5	78 2	+ 0.8	71.3	+ 1.3	58.8	− 0.3	43.0	− 4.5	37.4	+ 2.6	57.1	+ 0.8
Section Means	34.2	+ 4.0	40.6	+ 8.6	41.3	− 2.8	50.1	− 5.2	67.8	+ 3.0	71.9	− 2.0	79.0	+ 0.7	78.4	+ 1.6	69.7	+ 0.1	58.2	+ 0.3	40.6	− 4.6	36.0	+ 0.4	55.6	+ 0.3
Northwest Plateau.																										
Bethany	....	......	....	......	....	......	....	......	66.8	+ 4.2	69.5	− 2.9	78.0	+ 2.0	77.6[f]	+ 2.7	66.8	− 0.2	55.2	+ 0.5	37.5[a]	− 5.4	28.9	− 1.4	....	......
Chillicothe	28.2	− 0.6	34.2	+ 1.7	37.8	− 3.8	46.0	− 7.3	67.6	+ 0.5	70.3	− 3.9	77.5	− 2.7	77.1	+ 1.0	66.4	− 3.2	54.7	− 3.5	36.3	− 6 3	27.7	− 7.9	52.0	− 3.0
Conception	28.4	+ 3.6	36.0	+ 8.9	37.2	− 2.3	48.6	− 3.3	68.2	+ 6.2	71.0	− 0.6	77.9	+ 1.5	78.0	+ 3.4	66.2	− 1.0	55.0	− 0.5	36.8	− 4.6	28.0	− 1.3	52.6	+ 0.8
Edgerton	31.9[c]	......	37.6[b]	......	39 6[k]	......	48.0	......	68.0[c]	.....	71.6[b]	......	77.1[c]	......	77.0[b]	......	68.0	......	55.7	......	38.0[e]	......	31.0	......	53.6	... ..
Grant City	29.0	+ 4.1	....	......	....	......	....	......	66.5	+ 4.4	68.6	− 2.7	75.8	− 0.4	76.2	+ 1.3	64.9	− 2.1	54.2	− 1.2	36.0	− 6.4	28.2	+ 0.5	....	......
Kansas City	32.4	+ 4.2	39.2	+ 8.0	39.8	− 2.9	49.3	− 5.5	68.6	+ 3.8	72.2	− 1.4	78.9	+ 0.8	79.0	+ 2.4	68.0	− 0.9	57.5	− 0.2	40.4	− 3.3	31.7	− 0.8	54.8	+ 0.4
Kidder	27.3	+ 0.4	34.6	+ 6.8	36.9	− 4.3	45.7	− 6.7	67.8	+ 4.7	69.2	− 3.2	75.8	− 1.1	75.6	− 0.1	64.8	− 2.9	53.2	− 3.2	34.6	− 7.8	23.4	− 6.3	50.7	− 2.0
Lexington	32.1	+ 4.6	38.5	+ 9.1	40.8	− 2.1	48.4	− 5.7	66.0	+ 1.6	71.6	− 1.2	78.2	+ 1.1	77.2	+ 1.2	68.0	− 0.5	57.0	− 0.5	40.1	− 3.9	31.9	+ 0.4	54.2	+ 0.3
Liberty	....	......	....	......	....	......	....	.....	69.2	+ 6.4	72.6[b]	− 1.4	79.2[g]	+ 1.1	78.2	+ 1.2	68.8	− 0.4	....	......	....	......	....	......	....	......
Maryville	29.0	+ 6.6	36.4	+12.3	37.8	+ 0.6	49.0	− 1.1	67.2	+ 6.1	69.8	+ 0.2	76.4	+ 0.8	77.0	+ 3.4	65.8	+ 0.4	55.2	+ 1.9	36.4	− 2.6	28.4	+ 2 1	52.4	+ 2.6
Oregon	30.2	+ 6.3	37.0	+ 8.8	38.9	− 0.4	51.2	− 2.7	69.4	+ 4.2	72.4	+ 0.1	78.6	+ 3.0	79.3	+ 4.3	68.2	+ 1.2	57.7	+ 2.8	38.8	− 1.5	30.0	+ 1.5	54.3	+ 2.5
St. Joseph	30.0	+ 3.0	37.4	+ 6.8	39.0	− 3.4	49.6	− 4 5	68 3	+ 4.6	72.0	+ 2.3	78.6	− 0.2	78.4	+ 1 5	67.4	− 1.4	56.6	+ 0.3	38.8	− 5.1	29.6	− 0.5	53.8	+ 0.3
Tarkio	27.4	+ 4.5	34.0	+ 6.0	32.6	− 8.0	44.6	− 7.6	63.2	− 0.1	66.6	− 6.1	77.0	0.0	76.6	+ 1.0	65.0	− 1.6	51.8	− 3.7	32.4	− 8.2	26.8	+ 0.9	49.8	− 1.9
Trenton	29.6	+ 2.9	36.0	+ 7.5	36.7	− 4.5	46.6	− 6.0	67.6	+ 3.8	69.9	− 2.7	77.0	+ 0.1	76.3	+ 1.1	66.0	− 1.4	55.1	− 1.2	37.2	− 5.2	28.8	− 0.8	52.2	− 0.5
Section Means	29.6	+ 3.4	36.4	+ 7.5	37.8	− 3.4	47.6	− 5.3	67.5	+ 3.9	70.6	− 1.8	77.6	+ 0.5	77.4	+ 1.9	66.7	− 1.1	55.3	− 0.7	37.2	− 5.0	28.8	− 1.1	52.7	− 0.1
State means	32.7	+ 2.3	39.4	+ 7.6	39.6	− 4.2	49.9	− 5.2	67.0	+ 2.4	70.9	− 2.6	78.0	+ 0.6	77.5	+ 1.5	69.3	+ 0.3	57.3	− 0.1	39.6	− 4.9	32.6	− 1.3	54.5	− 0 3

Letters of alphabet indicate number of days missing from report: thus [a] one day; [b] two days, etc.

SUMMARY—*Continued from Page 50.*

stations for the State as a whole received amounts in excess of the normal, most of it falling during one rain. Corn on the heavier soils and on the bottom lands did well, but the upland crop south of the Missouri was badly fired. Wheat harvest made good progress.

AUGUST.—Warmer than normal with some real hot days during the first half. The general lack of rain during the last of June and most of July continued up to the 10th or 12th of August. All crops and especially the upland crops suffered, but general and copious rains the latter half of the month more than made up the deficiency, large excesses occurring at nearly all stations. The rains came too late to help most of the early planted crops but all late crops were benefited. Thunderstorms were of almost daily occurrence during the rainy spell but were in most cases free from hail and windstorms.

SEPTEMBER.—The outstanding features were the persistent rainfall over all the State, save the extreme southeast counties, and quite a nipping frost on the 26th. It was the wettest September during 50 years or more. With the soil already saturated by the August rains and most creeks and small rivers full, the September rains caused unprecedented floods for autumn. Coming at a time when the principal crops had matured, the damage and loss was heavy. Very little ground was prepared for winter wheat.

OCTOBER.—Generally mild but decidedly wet. The tendency toward frequent and heavy precipitation since the latter part of August continued during October. Only about two workable days occurred during the first ten days and four or five during the third week. The first killing frost and freeze, however, did not occur until the last week, finding all crops, except a few apple orchards, fully matured or cared for. The wet weather caused some corn to sprout and much was damaged on the lower lands by flooding. Wheat seeding was delayed by wet ground, and considerable acreage was poorly prepared for seeding. All outdoor work was much interrupted by the too frequent rains.

NOVEMBER.—Mainly a cold, cloudy month, with unusually heavy snows. Severe windstorms occurred in the southern part of the State on the 25th. The snowfall was about four times the normal, and for many of the central and east-central counties the heaviest of record. The month was generally unfavorable for outdoor work in the eastern half of the State, but moderately favorable in the western. Much corn was in the fields waiting more favorable husking and hauling conditions. The wheat crop started off quite well despite the unfavorable seeding season. The weather favored the fuel and clothing lines of business.

DECEMBER.—The prevailing weather approximated the usual December type. There were a few real winter days and several quite pleasant days. The month was wetter than normal. The snowfall was heavy over the southeast part but light in all other sections. A general sleet and glaze storm prevailed over the northern part on the 6th, and 7th. Farm conditions were about normal.

Evaporation Tables, Columbia, Mo.

	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
Station No. 1* (Weather Bureau)									
Total evaporation	4.153	5.674	5.037	5.977	4.611	2.398	1.563	.....	29.413
Total precipitation	4.96	2.70	3.08	4.14	4.97	8.94	4.89	.....	33.68
Total wind movement	1,533	852	708	517	480	564	690	.....	5,344
Mean temperature	48.3	67.0	70.0	77.2	76.2	68.5	55.9	.....	66.2
Station No. 2** (Univ. of Missouri Experiment Farm.)									
Total evaporation	4.293	6.631	7.080	7.476	6.246	4.042	3.016	.....	38.814
Total precipitation	4.43	2.54	2.98	4.00	4.82	10.08	3.42	.....	32.27
Total wind movement	3,306	2,254	1,856	1,181	1,011	1,270	1,648	.....	12,526

* Observations taken at 6:45 a. m. ** Observations taken at 5:30 p. m.

Monthly Data of the State for 1926.

Month	Temperature				Precipitation				
	Mean	Departure from Normal	Maximum	Minimum	Mean	Departure from Normal	Greatest	Least	No. Days with .01 or more
January	32.7	+ 2.3	70	−20	1.90	−0.13	5.55	0.62	6
February	39.4	+ 7.6	76	− 4	2.08	−0.07	4.39	0.53	6
March	39.6	− 4.2	83	8	2.89	−0.11	5.53	0.74	8
April	49.9	− 5.2	91	10	2.46	−1.27	4.96	0.56	8
May	67.0	+ 2.4	100	32	2.73	−1.97	7.82	0.40	7
June	70.9	− 2.6	101	37	3.62	−1.05	8.42	0.34	8
July	78.0	+ 0.6	108	40	3.14	−0.91	8.65	0.49	7
August	77.5	+ 1.5	106	50	5.63	+1.95	13.55	1.83	10
September	69.3	+ 0.3	97	27	8 79	+5.06	18.04	2.23	13
October	57.3	− 0.1	93	21	4.67	+1.92	8.66	1.35	9
November	39.6	− 4.9	78	0	2.98	+0.63	6.18	0.77	7
December	32.6	− 1.3	75	−12	2.18	+0.15	6.74	0.55	6
Year	54.5	− 0.3	108	−20	43.07	+4.20	18.04	0.34	96

Comparative Annual Data for the State.

Year	Temperature			Precipitation	Year	Temperature			Precipitation
	Mean	Maximum	Minimum			Mean	Maximum	Minimum	
1888	52.9	111	−32	41.22	1908	56.7	102	−10	42.56
1889	54.3	107	− 9	37.91	1909	56.7	110	−20	45.16
1890	54.7	106	−19	35.71	1910	55.0	109	−24	36.86
1891	53.9	108	−11	38.04	1911	56.9	113	−19	38.94
1892	53.4	101	−11	42.76	1912	53.6	105	−36	38.68
1893	52.7	107	−20	38.19	1913	56.5	110	−12	37.47
1894	55.1	111	−35	33.18	1914	56.1	109	−18	34.72
1895	52.9	106	−26	39.30	1915	54.8	102	−24	49.62
1896	55.5	108	−10	44.63	1916	55.2	109	−29	40.33
1897	55.0	108	−16	38.82	1917	52.3	107	−23	31.94
1898	54.4	104	−20	53.67	1918	55.5	111	−25	37.16
1899	54.0	108	−32	37.32	1919	55.2	106	−23	40.05
1900	55.6	105	−16	38.34	1920	54.3	105	−10	37.17
1901	55.5	116	−29	25.28	1921	58.2	109	− 8	43.77
1902	54.1	103	−17	44.96	1922	56.8	108	− 6	39.99
1903	53.6	102	−25	40.15	1923	55.3	108	−11	41.23
1904	53.2	100	−23	41.62	1924	52.9	106	−28	40.01
1905	53.6	103	−40	45.43	1925	55.5	110	−14	39.78
1906	55.1	101	−13	37.34	1926	54.5	108	−20	43.07
1907	55.6	109	−15	41.81	Average 39 yrs.	54.8	116	−40	39.85

KILLING FROSTS, 1926.

Stations.	Last in Spring.	First in Autumn.	Days in Growing Season.	Stations.	Last in Spring.	First in Autumn.	Days in Growing Season.
Northeast Plain.				*Ozark Plateau (continued)*			
Brunswick	April 19	Oct. 24	188	Goodland	May 15	Oct. 21	159
Clifton Hill	April 19	Sept. 26	160	Greenville	April 21	Oct. 21	183
Columbia	April 19	Oct. 24	188	Hollister	April 21	Oct. 24	186
Downing	April 19	Sept. 26	160	Koshkonong	April 19	Oct. 25	189
Fayette	April 29	Oct. 21	175	Lebanon	April 20	Oct. 24	187
Fulton	April 19	Oct. 24	188	Lockwood	April 19	Oct. 25	189
Hannibal	April 19	Oct. 24	188	Mountain Grove	April 19	Oct. 25	189
Jefferson City	April 19	Oct. 25	189	Neosho	April 16	Oct. 25	192
Kirksville	April 19	Sept. 26	160	Rolla	April 19	Oct. 25	189
Louisiana	May 15	Oct. 21	159	Seligman	April 15	....	....
Macon	April 19	Sept. 26	160	Seymour	April 18	Oct. 21	186
Mexico	April 19	Oct. 24	188	Springfield	April 3	Oct. 25	205
St. Catharine	April 19	Sept. 26	160	*Southwest Plain.*			
St. Charles	April 19	Oct. 25	189	Amoret	April 19	Oct. 24	188
St. Louis (1)	April 3	Nov. 2	213	Appleton City	April 19	Oct. 24	188
St. Louis (2)	April 15	Nov. 2	201	Clinton	April 13	Oct 24	194
Steffenville	April 19	Sept. 26	160	Harrisonville	April 19	Oct. 21	188
Unionville	April 28	Sept. 26	151	Lamar	April 16	Oct. 25	192
Warrenton	April 19	Oct. 25	189	Lamonte	April 19	Oct. 24	188
Keokuk, Iowa	April 19	Oct. 24	188	Marshall	April 19	Oct. 24	188
Southeast Lowlands				Nevada	April 19	Oct. 25	189
Campbell	April 20	Oct. 21	184	Warrensburg	April 19	Oct. 24	188
Caruthersville	April 2	Oct. 25	206	Warsaw	April 13	Oct. 24	194
Doniphan	May 15	Oct. 21	159	*Northwest Plateau.*			
Jackson	April 20	Oct. 21	184	Bethany	April 26	Sept. 26	153
Marble Hill	April 20	Oct. 21	184	Chillicothe	April 26	Sept. 24	151
Poplar Bluff	April 19	Oct. 21	185	Conception	April 19	Sept. 26	160
Sikeston	April 20	Oct. 25	188	Edgerton	May 15	Sept. 26	134
Cairo, Ill.	April 1	Nov. 2	215	Grant City	April 26	Sept. 26	153
Ozark Plateau.				Kansas City	April 15	Oct. 24	192
Arcadia	April 29	Oct. 25	179	Kidder	April 19	Sept. 26	160
Aurora	....	Oct. 25	....	Lexington	April 19	Oct. 24	188
Birchtree	April 19	Oct. 21	185	Liberty	....	....	....
Bolivar	April 19	Oct. 25	189	Maryville	April 19	Sept. 24	158
Dean	....	Oct. 25	....	Oregon	April 19	Sept. 24	158
Eldon	April 18	Oct. 24	189	St. Joseph	April 19	Oct. 24	188
Farmington	April 20	Oct. 21	184	Tarkio	April 19	Sept. 25	159
Gano	April 19	Oct. 21	185	Trenton	April 19	Oct. 24	188

WBO, St. Louis, 3-7-27—1240.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.
GEORGE REEDER, Meteorologist.

VOL. XXXI. COLUMBIA, MO., JANUARY, 1927. No. 1.

GENERAL SUMMARY.

The weather of the first month of 1927 showed considerable diversity, all of Missouri having mild almost spring-like conditions during the first ten days and the last four days of the month, while rather low temperatures and icy weather prevailed most of the time from about the 11th to the 27th. The widespread cold wave of the 14th, and 15th, brought subzero cold to most of the State; and excessive rains, augmented by severe sleet and glaze, resulted in heavy damage and much discomfort in the southeastern part of the State during a period of six or seven days starting on the 18th.

There was little or no activity on the farms. Winter wheat was in dormant condition but uninjured. The cold snap following the mild weather prevented premature fruit bud swelling.

TEMPERATURE.

The monthly mean temperature for the State, 68 stations reporting, was 30.8°, or only about 0.4° higher than normal, the warm spells at the first and last of the month just about counterbalance the cold spell. The western half of the State, however, was warmer than the eastern half. During the first nine or ten days and last four days of the month the plus departures from the normal amounted to as much as 10° to 16°. The 15th was the coldest day of the month, when 27 stations recorded 10° or more below zero and six stations with 20° or more below zero, the minimum being —24° at Chillicothe. This is the lowest minimum since 1924.

PRECIPITATION.

The average precipitation for the State, 102 stations reporting, was 3.05 inches, or 1.02 inches more than the 56 years' average. There was no precipitation of importance during the first ten days. The precipitation was considerably less than normal in the northern but excessive in the Ozark Plateau and southeastern lowlands. Appreciable snow was general, except along the immediate southern border. Monthly totals of from 6 to 10 inches occurred in some central and northern counties.

EXCESSIVE RAINS, SLEET, AND GLAZE.

Excessive and nearly continuous rains occurred in the southeastern section of Missouri from about the 18th to the 24th. During this six or seven day period from 5 to more than 9 inches of water fell in each of the nine counties, Cape Girardeau, Scott, Bollinger, Stoddard, Mississippi, New Madrid, Butler, Dunklin, and Pemiscot. The flood conditions that followed were augmented by a severe sleet and glaze storm that prevailed from the night of the 21st to the 23d. It was the worst storm of its kind in that section for twenty years or more. All outdoor objects were heavily coated with ice, nearly an inch thick with attached icicles from 4 to 6 inches long. The utility companies suffered severely, the telegraph, telephone, and light services being demoralized for the time being. The water systems were also put out of order and fire did damage in some of the towns, Sikeston, alone, having a loss in excess of $7[illegible],000. The farming districts suffered much loss and damage by flood waters, besides many fine fruit orchards, commercial timber, and some small houses were badly damaged by the heavy loads of ice. The ice also was most destructive to fruit, ornamental and forest trees, westward over Ripley and Oregon Counties. According to the press estimates, the damage will run into many thousands of dollars.

The rather prolonged spell of inclement weather, with icy streets, and highways, and foggy mornings preceding the 24th, resulted in numerous automobile wrecks. especially in the central, east-central and northern parts of the State.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.24	82	72	172	57	6,761	9.1	34	nw.	9
Hannibal	30.25	79	..	...	..	6,443	8.7	32	nw.	9
Kansas City	30.24	81	68	200	66	8,598	11.6	45	nw.	9
St. Joseph	30.23	82	66	187	62	6,423	8.6	40	nw.	3
St. Louis	30.23	80	70	104	34	9,262	12.4	60	sw.	27
Springfield	30.21	84	72	171	56	8,418	11.3	36	nw.	9
Cairo, Ill	30.23	78	70	...	..	7,844	10.6	35	nw.	9
Keokuk, Iowa	30.25	77	71	153	51	5,900	7.9	31	nw.	9

COMPARATIVE DATA FOR JANUARY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	21.5	−8.7	74	−32	1.91	−0.08	....	....	6	....	....	....
1889	31.8	+1.6	69	− 2	2.36	+0.37	....	....	6	....	....	....
1890	33.8	+3.6	81	−19	4.25	+2.26	....	....	9	....	....	....
1891	34.1	+3.9	74	− 1	1.52	−0.47	....	4.3	6	....	....	....
1892	24.0	−6.2	67	−25	1.80	−0.19	....	....	4	14	8	9
1893	22.5	−7.7	66	−14	0.45	−1.54	0.90	2.4	3	9	11	11
1894	31.4	+1.2	77	−35	2.21	−0.22	2.96	2.7	5	13	9	9
1895	24.7	−5.5	78	−22	1.49	−0.50	2.20	9.4	5	14	8	9
1896	32.9	+2.7	71	− 9	1.17	−0.82	2.44	3.1	4	10	7	14
1897	28.4	−1.8	72	−16	4.90	+2.91	6.95	4.0	8	12	7	12
1898	34.3	+4.1	75	−10	3.98	+1.99	3.35	8.4	9	11	8	12
1899	30.2	0.0	70	−21	1.55	−0.44	2.40	4.0	6	12	8	11
1900	34.5	+4.3	77	− 9	1.22	−0.77	2.30	0.2	4	14	7	10
1901	35.0	+4.8	72	−11	1.30	−0.69	2.95	0.8	4	17	7	7
1902	30.1	−0.1	72	−17	1.23	−0.76	3.37	6.9	5	16	7	8
1903	31.4	+1.2	73	−11	1.36	−0.63	1.71	5.0	6	13	6	12
1904	27.0	−3.2	66	−23	2.85	+0.86	4.74	7.4	8	14	6	11
1905	22.3	−7.9	72	−19	1.79	−0.20	2.52	6 8	8	14	6	11
1906	35.6	+5.4	76	− 8	3.64	+1.65	3.00	9.2	6	14	5	12
1907	34.3	+4.1	79	− 5	5.10	+3.11	4.42	2.8	12	7	6	18
1908	34.4	+4.2	68	−10	1.51	−0.48	2.13	3.6	5	19	5	7
1909	33.7	+3.5	83	−20	2.17	+0.18	2.10	6.5	7	6	7	18
1910	32.3	+2.1	78	−24	1.83	−0.16	3.98	3.5	5	13	6	12
1911	34.6	+4.4	78	−19	1.20	−0.70	3.03	0.7	5	8	7	16
1912	20.0	−11.3	70	−36	1.06	−1.20	2.56	6.5	4	14	7	10
1913	33.1	+1.8	74	−12	3.67	+1.30	5.30	2.6	8	13	6	12
1914	38.1	+6.9	78	− 1	1.42	−0.92	2.00	1.0	4	12	7	12
1915	29.1	−2.2	76	−24	2.92	+0.59	3.10	5.4	8	12	5	14
1916	31.6	+0.7	72	−24	7.36	+5.16	4.65	3.4	12	9	4	18
1917	32.9	+2.5	76	−10	1.52	−0.64	2.50	2.3	5	15	7	9
1918	16.4	−14.0	67	−24	1.68	−0.71	3.20	16.6	7	12	7	12
1919	34.0	+3.6	70	−23	0.40	−1.88	3.05	1.4	2	20	5	6
1920	28.6	−1.4	72	− 5	1.57	−0.65	4.15	5.7	5	15	5	11
1921	37.1	+7.2	74	− 1	1.88	−0.38	1.45	5.4	6	10	7	14
1922	29.5	−0.6	66	− 6	1.21	−1.05	2.95	3.9	5	14	5	12
1923	39.2	+8.5	75	3	2.72	+1.81	3.52	0.6	6	12	7	12
1924	24.9	−5.5	68	−25	1.54	−0.49	1.78	5.7	7	14	5	12
1925	29.7	−0.7	65	−15	1.00	−1.03	2.10	4.7	4	15	7	9
1926	32.7	+2.3	70	−20	1.90	−0.13	2.51	4.2	6	11	7	13
1927	30.8	+0.4	73	−24	3.05	+1.02	4.40	3.6	6	13	6	12

Climatological Data for January, 1927

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	47	32.0	+5.2	55	4	−15	15	30	0.92	−0.71	0.43	6.0	4	11	4	16	nw.	O. K. Benecke
Clifton Hill	Randolph	731	27	26.8	−1.9	58	5	−22	15	34	1.03	−0.57	0.80	10.0	3	10	9	12	....	Dr. A. J. Bradsher
Columbia	Boone	748	36	30.0	+0.8	56	5	−8	15	29	1.75	−0.48	1.04	4.0	7	10	8	13	n.	U. S. Weather Bureau
Downing	Schuyler	878	5	25.9	......	57	5	−14	15	34	0.40	−1.33	0.37	6.7	2	16	3	12	n.	E. E. St. Clair
Fayette	Howard	661	46	28.0	+0.8	60	5	−14	15	37	0.73	−1.26	....	3.0	..	..	..	..	...	J. D. Settle
Fulton	Callaway	818	38	28.4	−1.3	58	6	−8	15	29	1.56	−0.79	0.85	4.5	9	10	11	10	.....	Chamber of Commerce
Gorin	Scotland	700	39	....	......	..	..	....	..	..	0.90	−0.65	0.90	9.0	1	12	7	12	nw.	J. W. Pulliam
Hannibal	Marion	534	34	27.0	−0.1	55	5	−16	15	32	1.56	−0.64	1.12	11.4	7	9	10	12	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	29.2	−0.6	60	29	−5	15	34	1.99	−0.23	1.10	2.0	6	17	3	11	n.	Miss Emma Swift
Kirksville	Adair	969	37	25.8	+0.9	58	5	−19	15	32	0.62	−0.91	0.60	6.2	2	13	1	17	sw.	Prof. J. S. Stokes
Louisiana	Pike	469	32	28.2	+0.3	55	5†	−22	15	35	1.22	−0.80	0.90	6.2	4	17	5	9	n.	J. T. Farrell
Macon	Macon	875	27	25.8	−2.7	55	5	−16	15	42	1.14	−0.51	0.76	8.9	4	17	7	7	se.	W. C. Brown
Mexico	Audrain	800	37	27.2	−1.1	59	3	−12	15	43	1.60	−0.45	0.85	7.0	5	20	0	11	w.	Mrs. Abbie Snoddy
St. Catharine(near)	Linn	800	15	....	......	..	..	....	..	..	...	......	...	....	..	..	..	..	...	Mathias Schoch
St. Charles	St. Charles	456	38	30.7	−0.4	60	3	−8	15	28	1.34	−0.93	1.20	2.0	4	11	3	17	n.	L. C. Saeger
St. Louis (1)	St. Louis City	717	52	31.6	+0.4	59	3	−3	15	28	3.66	+1.39	2.42	1.7	9	9	8	14	n.	U. S. Weather Bureau
St. Louis (2)	....do	578	14	31.2	+1.0	58	3	−3	15	29	3.31	+0.24	2.41	0.2	8	6	10	15	se.	St. Louis University
Shelbina	Shelby	779	33	....	......	..	..	....	..	..	0.84	−0.88	....	10.0	..	..	..	..	.....	J. C. Jewett
Steffenville	Lewis	650	28	26.7	−1.1	61	5	−21	15	46	1.09	−1.10	0.85	10.5	3	14	6	11	s.	Frank Hall
Unionville	Putnam	1,062	33	25.6	+2.1	58	5	−16	15	32	0.68	−1.16	0.60	7.0	2	12	9	10	n.	Geo. W. Davis
Warrenton	Warren	816	44	30.6	+1.6	59	5	−12	15	31	1.82	−0.56	1.07	4.0	2	13	9	9	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	54	25.4	+0.5	53	31	−12	15	40	1.10	−0.59	0.97	12.6	4	10	7	14	n.	U. S. Weather Bureau
Section means and	extremes	.....	..	28.2	+0.2	61	5	−22	15	46	1.39	−0.62	2.42	6.3	4	12	6	13	n.	
Southeast Lowlands.																				
Benton	Scott	340	1	....	......	..	..	....	..	..	9.98	......	2.30	0	10	..	..	..	....	E. R. Tirmenstein
Campbell	Dunklin	314	1	36.9	......	63	29†	3	15	32	8.89	......	2.84	0	9	9	7	15	n.	Jeff. King
Caruthersville	Pemiscot	265	30	37.4	−1.6	63	3†	4	15	39	5.06	+0.31	1.27	0	13	11	7	13	nw.	John T. Markey
Doniphan	Ripley	344	22	34.6	−1.6	63	29	1	15	37	9.08	+4.87	3.20	0	10	10	9	12	sw.	W. W. Martin
Jackson	Cape Girardeau	428	35	34.0	0.0	62	30	−3	15	32	6.36	+2.64	1.46	0	9	9	7	15	n.	John G. Putz
Marble Hill	Bollinger	470	31	34.4	−0.4	64	4	−2	15	37	4.53	+1.00	1.20	8.0	8	13	2	16	n.	R. A. DeWitt
Morehouse	New Madrid	289	25	....	......	..	..	....	..	..	9.31	+5.08	2.32	0	10	12	4	15	n.	John A. Spence
Parma	New Madrid	281	5	....	......	..	..	....	..	..	8.69	......	2.70	0	9	..	..	..	...	H. W. Kendall
Patton	Bollinger	605	17	....	......	..	..	....	..	..	5.38	+2.33	1.35	T.	11	..	..	..	.	S. P. Presnell
Poplar Bluff	Butler	339	22	35.9	−0.7	66	4	0	15	41	9.46	+5.49	4.40	0	13	15	5	11	e.	J. H. Wolpers
Sikeston	Scott	318	21	34.8	−2.8	63	30	1	15†	29	9.99	+5.76	3.01	0	10	14	4	13	ne.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	359	51	36.4	+1.5	63	29	1	15	23	8.16	+4.34	2.09	T.	11	8	8	15	n.	U. S. Weather Bureau
Section means and	extremes	....	..	35.3	−0.6	66	4	−3	15	41	8.17	+3.94	4.40	0.7	10	11	6	14	n.	
Ozark Plateau.																				
Arcadia	Iron	926	45	30.4	−1.7	61	5	−3	15†	39	3.64	+0.42	1.32	T.	5	12	1	18	w.	Arcadia College
Aurora	Lawrence	1,370	36	35.5	+2.0	72	5	1	15	40	2.89	+0.49	1.26	T.	6	13	7	11	se.	W. T. Troughton
Birchtree (near	Shannon	1,000	31	34.8	+0.4	64	3†	−2	15	34	5.91	+2.85	1.55	1.0	10	14	1	16	ne.	V. H. Kirkendall
Bolivar	Polk	1,071	32	35.2	+1.3	65	5	−1	15	38	3.99	+2.10	1.40	1.5	11	14	5	12	n.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	27	....	......	72	5	....	..	..	2.93	+0.69	1.66	0.5	6	17	2	12	ne.	H. E. Dean
Eldon	Miller	934	30	31.3	−0.1	63	4	−5	15	47	1.94	+0.40	1.01	1.0	6	15	5	11	sw.	E. H. Shepherd
Farmington	St. Francois	918	15	31.8	−1.0	65	5	−4	15	32	3.97	+1.62	1.08	0.5	9	9	10	12	ne.	Robert Forsyth
Gano ‡‡	Dent	1,250	22	32.7	−0.2	63	3	−5	15	33	4.29	+1.44	1.65	1.5	8	12	6	13	s.	A. C. Leach
Goodland	Iron	1,000	32	32.7	+0.1	68	31	−4	15	49	2.11	−0.76	0.74	8.0	5	11	4	16	n.	F. M. Adams
Greenville	Wayne	381	4	33.4	......	61	3†	0	15	33	5.37	.....	1.50	T.	10	13	4	14	n.	Wm. P. Owens
Hailey	Barry	1,350	1	....	......	..	..	....	..	..	3.10	......	1.20	0	4	12	4	15	w.	A. W. Madison
Hollister	Taney	735	39	33.0	−3.0	72	6	−10	15	55	3.90	+1.29	1.20	0	8	13	2	16	ne.	Mrs. W. P. Chapman
Koshkonong	Oregon	958	25	37.2	+0.7	69	29	0	15	35	7.07	+3.53	1.80	0	12	12	4	15	n.	R. M. Hitt
Lebanon	Laclede	1,265	38	32.7^c	−0.3	65	5	−4	15†	46	4.15	+1.70	2.10	1.0	4	12	5	14	n.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	20	33.4^e	+0.1	54	3†	0	15	24	1.74	+0.08	1.59	0.5	3	16	2	13	nw.	C. S. Crow
Mountain Grove(near)	Wright	1,463	25	33.4	+0.2	63	4	−2	15	31	4.35	+1.48	1.25	1.5	11	13	4	14	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	36.4	+1.3	68	5	1	15	41	3.94	+1.44	1.43	0.2	8	17	3	11	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	26	33.4	+2.1	73	4	−4	15	40	4.18	+1.73	2.14	4.2	7	15	3	13	n.	Prof. Elmo G. Harris
Seligman	Barry	1,542	24	36.7^h	+2.0	69	5	−1	15	33	3.81	+1.57	1.25	T.	8	14^b	3^b	12^b	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,642	20	33.5	−0.8	65	5	−3	15	39	2.65	−0.05	1.20	0	7	15	5	11	se.	Ira H. Hailey
Springfield	Greene	1,350	38	34.4	+0.9	65	5	0	15	29	3.47	+0.81	1.23	0.1	8	17	3	11	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	33.8	+0.2	73	4	−10	15	55	3.78	+1.20	2.14	1.0	7	14	4	13	n.	
Southwest Plain.																				
Amoret	Bates	831	19	30.8	+0.3	64	5	−13	15	43	1.22	−0.07	0.48	6.0	4	17	1	13	n.	Andrew Rood
Appleton City	St. Clair	853	32	32.4	+1.1	65	5	−6	15	34	1.77	−0.06	0.84	5.1	6	8	13	10	ne.	W. G. Bigelow
Centerview	Johnson	.....	39	28.0^c	−0.9	62	5	−12	15	32	1.52	−0.27	0.60	5.5	7	12^c	6^c	10^c	sw.	....
Clinton	Henry	765	33	31.4^a	0.0	61	5	0	15	35	2.47	+0.49	1.05	5.2	6	12^a	6^a	12^a	ne.	A. E. Derwent, M. D.
Harrisonville	Cass	904	49	28.8	+1.6	63	5	−12	15	48	1.28	−0.32	0.52	6.0	4	15	0	16	s.	John H. Patterson
Lamar	Barton	980	39	33.4	+1.0	66	5	1	15†	41	2.62	+0.92	1.34	2.0	7	14	5	12	sw.	Jesse A. Mann
Lamonte	Pettis	867	25	30.8	+2.1	63	5	−14	15	43	2.27	+0.49	0.67	1.0	8	17	7	7	se.	J. E. Wheeler
Marshall	Saline	779	37	30.4^c	+2.8	60	5†	−17	15	33	1.30	−0.52	0.50	8.5	6	14^g	5^g	5^g	sw.	Dr. W. H. Black
Nevada	Vernon	862	33	33.6	+1.9	65	5	−3	15	33	1.55	−0.42	0.80	1.5	4	17	1	13	s.	George A. Kaupp
Warsaw ††	Benton	687	26	34.3	+1.5	65	5†	−9	15	40	1.90	−0.48	1.15	0.5	..	18	3	10	w.	Everett Martin
Section means and	extremes	.....	..	31.4	+1.1	66	5	−17	15	48	1.79	−0.02	1.34	4.1	6	15	5	11	sw.	
Northwest Plateau.																				
Bethany	Harrison	916	34	26.4	+1.8	58	5	−21	15	32	0.36	−0.94	0.36	4.0	1	17	4	10	nw.	M. H. Moulton
Chillicothe	Livingston	779	17	25.6	−3.2	60	5	−24	15	57	0.78	−0.88	0.78	7.0	1	15	13	3	nw	Wm. J. Olenhouse
Conception	Nodaway	980	37	26.8	+2.0	61	5	−11	15	32	0.40	−0.55	0.18	4.5	4	11	10	10	ne.	Fr. Adelhelm Hess
Edgerton	Platte	856	6	26.4^d	....	56	2	−23	15	35	0.39	−0.88	0.36	5.2	3	15	2	14	n.	Fred L. Stiff
Grant City	Worth	1,134	22	26.9	+2.0	56	5	−14	15	33	0.35	−0.61	0.21	3.9	2	18	8	5	sw.	W. P. Spillman
Kansas City	Jackson	963	37	30.8	+2.6	63	5	−1	15	26	1.29	+0.16	0.92	8.3	10	12	9	10	n.	U. S. Weather Bureau
Kidder	Caldwell	1,020	33	22.9	−4.0	57	5	−15	15	42	0.60	−0.70	0.60	6.0	1	12	7	12	nw.	Linn Terry
King City	Gentry	1,095	1	...	......	..	..	....	..	..	...	......	....	....	..	..	..	..	.	D. B. Oliver
Lexington	Lafayette	688	41	29.0	+1.5	58	5	−15	15	28	1.41	−0.16	0.57	6.5	5	15	6	10	n.	Edwin G. Loomis
Liberty	Clay	859	35	...	......	..	..	....	..	..	....	......	....	....	..	..	..	..		Doran H. Coffman
Maryville	Nodaway	1,169	36	27.7	+5.3	61	5	−9	15†	43	0.22	−0.86	0.15	2.2	3	17	1	13	n.	J. R. Brink
Oregon	Holt	1,048	70	29.3	+5.4	63	5	−7	15	29	0.35	−1.04	0.30	4.8	2	17	6	8	ne.	Mina Wright
St. Joseph	Buchanan	967	18	29.0	+1.8	61	5	−6	15	27	0.80	−0.04	0.73	5.9	4	16	7	8	ne.	U. S. Weather Bureau
Tarkio	Atchison	916	23	25.9	+3.0	55	5	−11	15	37	0.24	−0.55	0.21	4.0	2	17	4	10	ne.	Albert Volker
Trenton	Grundy	822	30	27.8	+1.1	57	5	−14	15	33	0.86	−0.52	0.86	5.0	1	13	11	7	n.	W. H. Estes
Section means and	extremes	.....	..	27.3	+1.6	63	5	−21	15	57	0.62	−0.58	0.92	5.2	3	15	7	9	n.	
State means and	extremes	.....	..	30.8	+0.4	73	4	−24	15	57	3.05	+1.02	4.40	3.6	6	13	6	12	n.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5. ‡ Indicates plus.

Daily Precipitation for January, 1927

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri										T.			.80	.05				.02				.04	.50	.02		.03	.01					1.47
Brunswick‖	Grand													.43	.09									.25			.15						0.92
Clifton Hill	Chariton									T.			T.	.80								T.		.03		T.	.20						1.03
Columbia***	Missouri									T.			.57	.47	T.				.04			.03	.48	.08		T.	.08		T.				1.75
Downing	Mississippi									T.			T.	.37					.03	T.		T.		T.					T.				0.40
Fayette‖	Missouri																																0.73
Fulton	do													.85	.12				.03			.01	.02	.42	.06		.02	.03					1.56
Gorin	Mississippi												T.	.90																			0.90
Hannibal***	do			T.						T.			.41	.72					T.	T.		.06	.08	.17		.07	.05	T.	T.				1.56
Hermann‖	Missouri													.95	.40				.02	.02		.02	.04	.50	.02			.03					2.00
Jefferson City‖	do													1.10	.04				.05		T.	T.	.10	.60	T.			.10					1.99
Kirksville	Mississippi												.02	.60																			0.62
Louisiana	do									T.			T.	.90					.12					.10			.10						1.22
Macon‖	Chariton													.76	.03				T.					.25			.10						1.14
Mexico‖	Mississippi												T.	.10	.85				.12				.50				.03						1.60
Milan‖	Grand									T.				.60	.10							T.											0.70
Pacific‖	Meramec													1.80	.36				.43	.08		.05	.25	.38	.17								3.52
St. Catharine(near)	Grand																																....
St. Charles	Missouri									T.			.02	1.20	T.				.10				T	.02			T.						1 34
St. Louis (1)***	Mississippi									T.	T.		.87	1.55		T.		.24	.37	.02	T.	.18	.08	.34			T.	.01		T.			3.66
St. Louis (2)*	do									T.			.95	1.46				.18	.39		T.	.12	.07	.13			.01		T.				3.31
Shelbina‖	do													.84																			0.84
Steffenville	do									T.			T.	.85					T.				.04	.20									1.09
Union‖	Meramec													1.99	.20	.01			.40	.10		.02	.20	.24	.30								3.46
Unionville‖	Chariton												.08	.60																			0.68
Warrenton	Mississippi									T.			T.	1.07	T.				T.			T.	T.	.75			T.						1.82
Keokuk, Ia.***	do			T.						T.			.40	.60					T.		T.	T.	.03	.07			T.	T.	T.				1.10
Southeast Lowlands																																	
Benton	Mississippi													.50					.98	1.67	.66	2.24	2.30	.70	.50				.40	.03			9.98
Campbell‖	St. Francis													.50					.47	2.84	1.03	.75	1.34	1.20	.60				.16				8.89
Cape Girardeau‖	Mississippi													.04	.38				.78	1.40	.38	.22	2.10	1.40	.16		.04		.23	.05			7.18
Caruthersville‖	do	.05														.09		.40	.55	.65	.45	.35	.30	1.27	.46	.10	.20		.19				5.06
Dexter‖	St. Francis													T.	.49				T.	2.02	1.06	.15	2.94	1.56	.20	.22			.24	T.			8.88
Doniphan	Black													.40					.85	1.00	.45	1.80	3.20	.88	.45	T.	.02	T.	T.	.03			9.08
Jackson	Mississippi												.02	.62					1.15	.80	.17	1.12	1.46	.62	.40								6.36
Marble Hill	Mississippi												.10	.56					1.20	.70	.45	.80	.52	.20									4.53
Morehouse	do													.34					.73	2.02	.75	.98	2.32	.85	.93				.37	.02			9.31
New Madrid‖	do													.01	.48				.03	2.07	2.75	.08	.75	.67	.42	.27			.18	.09			7.80
Parma	St. Francis													.50					.80	2.70	1.02	.44	1.15	1.25	.53				.30				8.69
Patton	Mississippi												.05	.76	1.35				.21	.47	.10	.47	1.00	.65	.28					.04			5.38
Poplar Bluff‖	Black												.20	.40				.52	1.40	.62	.12	4.40	1.12	.24	.04	.03		.10				.27	9.46
Sikeston‖	Mississippi														.35					2.18	1.62	.02	3.01	1.12	.70	.57			.32	.10			9.99
Cairo, Ill.***	do			T						T.	T.			.39	T.			.09	1.04	1.91	.44	.86	1.24	1.54	.26	.01	T.	T.	.38				8.16
Ozark Plateau.																																	
Arcadia‖	St. Francis										T.			.80		T.			1.08	.15	T.	T.	1.32	.29	T.								3.64
Aurora	Neosho												.15	1.26					.90			.21	.27	.10	T.		T.						2.89
Birchtree(near)	Black												.20	.92					1.05	.09	.27	.65	1.55	.55	.55		.08						5.91
Bolivar	Osage												.70	1.40	.02			.50	.02	.02	.02	.50	.50	.30						.01			3.99
Caplinger Mills	Osage												.05	1.75					.20				T.	.10	T.		.14						2.24
Dean	Neosho												.10	1.66					.77		.05	.15	.20										2.93
Eldon‖	Missouri									T.			1.01	.14				.08				T.	.60	.05		T.	.06						1.94
Farmington	St. Francis												.06	1.08					.97	.13		.16	1.02	.32	.16				.07	T.			3.97
Fredericktown‖	do										T			.60	.15				1.15	.58	.34		.30	.75	.40	1.00			T.	.25			5.52
Galena‖	White													1.20					1.10														2.30
Gano	Meramec												.07	1.65	T.				.97	T	T.	.17	.36	.85	.15		T.		T.	.07			4.29
Goodland	Black													.72					.12	.74			.29	.24									2.11
Greenville	St. Francis									T.				.70	.02				.80	.40	.30	1.00	1.50	.43	.15				.07	T.			5.37
Hailey	White													.50											1.20	1.00	.40						3.10
Hollister	do													1.20						.20	.20	.70	.60	.50	.40	.10							3.90
Jerome‖	Gasconade																																....
Koshkonong	Black												.08	.65					.45	.20	.30	1.08	1.30	1.80	.90	.10	.13		.08				7.07
Lebanon‖	Osage													2.10					.70			T.		.25	T.	T.	T.	1.10					4.15
Lockwood	do												.05	1.59					T								.10						1.74
Mountain Grove‖	White													1.20	.18			.47	1.25	.06		.07	.63	.40		.03	.03		T	.03			4.35
Neosho	Neosho												.10	1.43	T.				.63		T.	.12	T.	.45	.05	1.03	.13						3.94
Owensville‖	Gasconade													1.90	.13					.16	.18	.25	.20	.11									2.93
Rolla‖	Meramec									T.			2.14	.30				.80	.12			.21	.31	.30									4.18
Seligman	Neosho													1.25					.68		.06	.21	T.	1.11	.10		.15		.25				3.81
Seymour(near)	White												.06	.38	T.				1.20		T.	.12	.25	.55		T.	T.		09				2.65
Springfield***	do												.71	.52	T.			.34	.74	T.	T.	.20	.28	.67	T.	.01	T.	T.	T.	T.			3.47
Steelville‖	Meramec													.75	.35				.95	.55			.25	.15									3.00
Stover‖	Missouri													.90	.05				.07					.70				.07					1.79
Tuscumbia‖	Osage										T.			1.10	.17	T.			.15			T.	.15	.54	.15	T.	.08	T.					2.34
Willow Sprgs.‖ (near)	White													1.05	.16				.65	.25	.31	.04	1.40	.70	.34	.06	.07		.04				5.07
Southwest Plain.																																	
Amoret	Osage												.36	.20								T.	.18		T.		.48						1.22
Appleton City	do												.07	.84					T.	T.		.10	T.	.56	.01		.19						1.77
Centerview	Missouri												.10	.60					.10	T.	T.	T.	.02	.50		.05	.15						1.52
Clinton	Osage											.20		1.05							.20				.70	.07	.25						2.47
Concordia‖	Missouri													.44										.32		.11							0.87
Harrisonville‖	Osage													.52					.10							.46	.20	.03					1.28
Joplin*	Neosho												1.05	.50	.05				.25		T.	.01		1.15	.10		.05	.08					3.14
Lamar‖	do													1.34				.05	.10				.24	.58	.23								2.62
Lamonte	Missouri									T.		.22		.30					.03			.67	.40	.20			.40			.48			2.27
Marshall	do												.50	.17					.05			T.		.05			.05						1.30
Nevada	Osage												.10	.80	.15				T.			T.		.50			.15		.23				1.55
Osceola‖	do													1.06					.08					.50			.35						2.37
Warsaw‖	do													1.15					.25			* *	* *	* *	* *	* *	.50						1.90
Waverly‖	Missouri										T.			.70	.14	T.			T.				T.	.31			.18	T.					1.33
Northwest Plateau.																																	
Albany‖	Grand													.40																			0.40
Bethany	do												T.	.36					T.	T.		T.		T.									0.36
Chillicothe‖	do										T.			.78					T.	T.		T.		T.			T.		T.				0.78
Conception	Missouri									T.			.10	.18					.05	T.	.07	T.				T.							0.40
Edgerton	do												.01	.36					.02		T.	T.		T.			T.						0.39
Gallatin‖	Grand													.70	T.				T.			T.		T.			T.						0.70
Grant City	do													.21					.14	T.													0.35
Kansas City***	Missouri												.36	.56				.02	.04		.01	.02	.14	.10		.02	.02	T.					1.29
Kidder‖	Grand													.60																			0.60
King City	Missouri																																....
Lexington‖	do													.57	.24				.03					.24			.33						1.41
Liberty‖	do																																....
Maryville‖	do			T.										.15					.05	.02		T.				T.				T.			0.22
Oregon	do												T.	.30					.05	T.		T.		T.		T.							0.35
St. Joseph***	do												.29	.44	T.			.02	.05	T.	T.	T	T.	T.		T.		T.					0.80
Tarkio	do													.21					.03														0.24
Trenton	Grand									T.			T.	.86				T.		T.				T.						T.			0.86

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for January, 1927

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	42	54	54	55	51	51	42	52	48	31	38	39	38	20	15	36	39	35	25	24	21	19	27	39	33	33	34	47	53	47	53	38.5
	Minimum	29	29	30	30	29	30	24	27	26	11	10	31	19	2	-15	8	21	18	19	11	14	7	12	11	16	11	5	33	32	31	27	25.4
Columbia	Maximum	41	50	53	54	56	45	41	51	41	30	37	38	34	14	17	38	43	31	26	27	27	18	27	38	33	31	36	47	54	46	54	38.0
	Minimum	28	33	37	35	34	30	26	33	23	15	12	31	11	-3	-8	17	28	21	22	13	15	11	18	20	26	12	7	36	36	34	29	22.0
Fayette §§	Maximum	43	55	55	58	60	48	43	55	30	34	40	38	34	33	23	38	43	23	22	23	21	24	27	43	33	28	35	47	55	49	55	39.2
	Minimum	27	27	31	30	29	29	20	26	25	16	7	11	30	2	-14	-13	19	18	18	11	13	9	11	11	14	15	4	9	29	31	23	16.7
Hannibal	Maximum	31	54	51	53	55	43	37	50	40	22	31	35	33	11	13	33	36	29	26	23	23	16	26	37	30	24	36	45	48	42	50	34.9
	Minimum	27	29	33	37	34	28	24	33	21	13	10	28	10	-5	-16	13	20	18	18	8	13	9	16	12	14	9	4	36	35	32	30	19.1
Jefferson City §§	Maximum	40	39	55	55	48	39	40	40	29	28	35	35	33	10	26	36	36	27	29	25	25	27	27	32	36	25	40	48	60	47	54	36.3
	Minimum	32	35	26	39	34	33	24	29	28	18	9	20	32	6	-5	2	25	25	24	18	19	3	14	24	25	19	9	18	34	34	28	22.0
Kirksville	Maximum	38	55	50	53	58	48	37	51	43	26	34	36	33	18	6	32	37	33	23	23	19	15	26	38	33	32	28	44	45	46	53	35.9
	Minimum	23	28	32	32	30	25	20	29	21	12	4	27	15	-1	-19	0	13	12	13	-1	10	2	10	10	18	6	2	27	34	29	25	15.7
Louisiana	Maximum	31	54	54	53	55	55	46	46	45	32	34	35	34	25	10	35	43	38	28	26	25	20	28	34	41	28	32	42	45	42	52	37.7
	Minimum	27	27	32	36	34	25	20	30	27	15	7	25	23	6	-22	0	15	22	20	12	20	10	17	8	12	14	-3	30	30	32	25	18.7
Macon §§	Maximum	39	52	50	53	55	48	41	50	29	29	37	38	29	12	23	34	40	20	25	20	18	22	28	32	32	22	38	44	50	44	53	35.7
	Minimum	25	25	30	32	31	27	23	27	25	14	17	10	26	0	-16	-6	18	16	15	4	4	15	5	11	12	12	-1	2	34	30	22	15.8
Mexico §§	Maximum	37	54	59	55	58	44	40	51	32	30	35	37	33	18	20	32	46	23	26	24	20	26	30	41	36	15	38	46	52	46	54	37.4
	Minimum	26	26	33	34	33	28	23	27	28	15	7	10	30	0	-12	-11	20	21	19	10	9	10	10	11	17	13	-1	8	30	29	27	17.1
St. Catharine (near)	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Louis (1)	Maximum	34	53	59	56	56	47	42	44	41	26	33	37	36	19	14	36	47	34	34	32	34	20	30	35	41	33	39	48	54	45	54	39.1
	Minimum	28	31	38	38	38	34	30	33	22	16	15	25	19	-1	-3	12	30	30	25	20	18	14	20	27	24	13	11	37	33	36	34	24.1
Unionville	Maximum	38	53	48	48	58	48	40	48	43	26	35	37	32	20	5	33	37	30	20	22	16	14	26	38	37	32	28	47	48	46	52	35.6
	Minimum	24	30	32	32	30	25	18	28	20	12	3	28	15	2	-16	2	12	8	10	-2	7	0	8	12	20	5	4	26	30	28	26	15.5
Warrenton	Maximum	39	53	57	53	59	51	43	48	45	26	34	36	33	32	13	37	45	38	30	31	29	21	29	40	38	35	35	48	52	52	56	39.9
	Minimum	26	27	31	36	32	30	25	30	25	15	7	24	30	3	-12	7	25	25	24	15	20	12	11	20	20	17	4	33	34	34	31	21.3
Southeast Lowlands.																																	
Campbell	Maximum	39	57	60	62	60	54	46	53	41	35	35	42	46	43	22	37	44	50	54	38	43	43	34	34	40	40	35	52	63	63	55	45.8
	Minimum	31	28	28	38	31	31	26	28	28	21	12	24	38	21	3	14	33	38	31	31	32	25	24	31	31	29	20	33	36	44	27	28.0
Caruthersville	Maximum	59	61	63	63	62	56	48	50	45	34	45	47	48	40	45	38	38	37	39	40	42	44	34	37	38	37	38	40	48	50	56	45.9
	Minimum	43	43	45	46	36	44	31	39	34	23	18	19	20	14	4	15	13	21	24	25	25	26	28	33	29	30	31	34	34	35	36	29.0
Doniphan	Maximum	42	60	62	62	59	56	48	54	40	34	33	42	46	35	20	37	43	40	38	32	40	40	34	35	42	35	36	53	63	60	53	44.3
	Minimum	31	26	25	28	26	28	25	25	29	16	8	21	28	18	1	14	29	31	30	29	30	28	25	30	30	25	15	34	36	32	23	25.0
Jackson	Maximum	38	52	55	61	59	53	44	49	44	34	34	40	43	43	21	35	46	45	40	37	39	39	35	37	42	43	37	46	59	62	55	44.1
	Minimum	27	24	24	36	28	29	20	30	23	17	9	22	33	13	-3	11	25	34	31	27	29	20	19	28	23	24	12	31	35	35	23	23.8
Poplar Bluff	Maximum	44	61	60	66	64	59	48	58	47	38	37	41	45	42	22	38	43	45	43	38	40	40	34	36	41	39	33	50	63	63	59	46.4
	Minimum	30	25	19	38	25	29	22	25	25	19	2	22	36	20	0	12	25	38	38	30	31	28	20	30	30	29	14	30	32	40	22	25.4
Sikeston	Maximum	39	39	54	57	62	60	52	44	50	39	31	33	42	42	21	25	35	47	53	51	35	43	32	33	34	44	36	42	49	63	56	43.3
	Minimum	30	28	32	35	33	33	24	24	30	21	13	14	25	23	1	1	24	32	38	31	31	22	24	31	30	30	20	21	38	43	29	26.2
Cairo, Ill.	Maximum	33	50	56	60	56	49	45	48	39	28	32	41	43	30	16	36	43	51	55	35	48	35	34	35	44	40	41	49	63	59	53	43.5
	Minimum	30	29	39	38	37	35	30	35	26	20	18	26	30	8	1	14	35	41	32	32	34	26	26	32	30	25	22	41	43	41	34	29.4
Ozark Plateau.																																	
Arcadia §§	Maximum	40	57	58	60	61	51	44	53	36	32	33	38	35	21	16	36	44	40	35	36	39	26	31	36	40	30	36	45	56	52	58	41.1
	Minimum	27	27	25	32	30	25	18	19	25	17	3	2	24	12	-3	-3	14	24	32	25	25	18	18	24	22	24	9	9	32	35	22	19.8
Birchtree	Maximum	44	59	64	61	63	58	48	52	52	32	32	35	42	39	24	40	43	43	39	34	39	38	32	34	35	35	33	52	51	60	64	44.4
	Minimum	30	25	30	35	30	33	25	24	29	13	8	23	32	14	-2	12	27	36	30	28	31	21	23	30	31	28	14	29	35	35	26	25.3
Eldon §§	Maximum	56	58	56	63	48	45	52	31	32	38	42	34	22	21	42	45	29	29	32	26	26	29	36	37	26	40	50	60	49	56	57	40.9
	Minimum	29	31	32	32	30	24	26	25	19	10	10	32	6	5	-5	20	26	25	26	20	15	15	25	26	25	9	10	34	35	28	29	21.7
Farmington	Maximum	37	54	56	58	65	50	40	41	36	27	34	32	35	32	20	38	45	40	35	29	35	32	30	33	40	34	36	46	52	50	57	40.3
	Minimum	27	28	29	36	33	31	21	27	26	11	5	22	31	10	-4	10	26	31	29	25	26	18	19	29	21	21	9	27	35	38	25	23.3
Hollister	Maximum	54	58	70	70	71	72	55	55	60	40	43	45	40	28	36	46	48	49	45	36	44	46	44	46	39	39	45	46	68	64	62	50.5
	Minimum	15	18	15	18	18	15	18	20	10	9	-2	5	12	5	-10	8	16	22	24	20	25	26	21	27	20	21	10	15	18	20	21	15.5
Koshkonong	Maximum	47	57	61	64	64	58	48	57	47	33	37	36	44	38	25	39	44	46	45	35	40	50	34	35	38	35	32	56	69	65	58	46.4
	Minimum	31	30	36	38	35	36	27	28	32	19	11	24	34	17	0	13	29	39	32	30	33	25	25	31	30	29	15	29	34	39	34	27.9
Lebanon §§	Maximum	47	56	60	57	65	51	75	53	37	31	40	37	41	25	30	42	54	35	32	37	39	28	30	40	..	..	..	41	62	50	55	[c]44.6
	Minimum	27	27	31	31	30	28	25	26	30	16	11	14	30	8	-4	-4	18	29	25	23	24	14	14	24	26	25	15	17	37	31	27	21.8
Mountain Grove	Maximum	36	49	59	63	57	62	58	45	52	31	31	35	33	33	28	25	39	44	39	36	35	40	30	34	34	34	32	35	54	62	51	41 8
	Minimum	28	29	35	34	32	34	27	29	30	17	13	21	30	11	-2	14	25	32	29	26	27	18	20	29	30	29	15	17	33	34	29	25.0
Neosho	Maximum	55	61	63	59	68	66	54	53	52	44	48	47	41	27	30	45	51	46	35	40	41	31	33	39	41	40	45	62	65	58	56	48.3
	Minimum	19	26	27	29	27	27	33	24	28	18	14	33	24	12	1	22	29	25	14	28	25	17	22	32	32	27	21	36	39	28	21	24.5
Rolla	Maximum	45	54	60	73	66	66	38	45	32	29	36	36	35	25	23	40	47	43	31	30	35	28	30	35	39	36	37	53	57	57	57	42.5
	Minimum	28	30	34	33	33	34	24	26	25	16	10	25	25	8	-4	15	28	29	27	23	26	15	20	28	26	22	12	32	38	34	29	24.2
Springfield	Maximum	45	52	58	56	65	54	45	50	39	30	39	35	37	20	22	41	44	43	30	36	39	31	32	37	40	35	38	54	63	49	53	42.3
	Minimum	27	33	39	35	36	34	31	33	23	18	19	29	20	3	0	18	31	27	25	27	20	17	27	29	31	21	20	35	39	36	33	26.4
Southwest Plain.																																	
Amoret	Maximum	46	57	50	60	64	50	49	55	38	38	45	40	40	21	20	38	42	33	29	27	26	29	27	37	36	32	37	48	57	50	56	41.2
	Minimum	37	28	28	37	21	30	27	24	22	16	15	24	4	4	-13	15	22	17	20	20	13	11	16	21	28	18	6	34	32	29	24	20.3
Appleton City	Maximum	45	53	60	58	65	56	47	55	46	36	44	39	34	22	22	38	40	36	28	31	30	20	28	33	35	35	38	47	57	52	56	41.5
	Minimum	28	29	33	32	31	32	28	30	28	18	16	31	22	7	-6	17	28	21	22	22	15	12	17	26	29	18	9	34	35	32	28	23.4
Centerview	Maximum	..	..	..	54	62	52	56	45	42	38	38	40	36	19	19	29	39	35	37	29	26	15	24	30	28	34	33	36	56	39	49	[c]37.1
	Minimum	..	..	..	32	30	32	28	26	28	17	14	32	18	-5	-12	12	25	15	18	15	14	9	12	18	14	16	8	32	34	19	29	[c]18.9
Clinton	Maximum	..	53	57	57	61	54	45	52	36	34	42	39	36	21	21	32	35	27	29	31	31	21	30	37	37	31	39	46	57	49	54	[a]39.8
	Minimum	..	18	37	32	30	33	28	28	28	28	15	31	21	9	0	18	21	20	22	20	15	11	19	24	30	17	10	30	35	31	28	[a]23.0
Harrisonville §§	Maximum	43	55	59	59	63	48	43	57	36	38	42	37	30	18	24	38	42	21	27	24	18	22	26	38	34	24	38	50	57	50	56	39.3
	Minimum	25	26	32	32	32	31	26	27	26	14	14	15	28	3	-12	-10	22	15	15	15	15	8	7	16	17	18	8	12	35	30	27	18.4
Lamar §§	Maximum	48	55	61	59	66	54	51	56	38	38	45	42	34	20	28	42	49	28	30	39	27	28	30	33	39	30	41	51	61	53	57	43.0
	Minimum	21	24	29	32	29	31	30	27	30	19	19	21	33	10	1	1	26	26	24	27	26	15	11	27	29	30	15	23	37	32	29	23.8
Lamonte	Maximum	43	53	56	56	63	49	48	46	52	40	33	43	40	37	19	39	44	32	27	26	26	18	27	41	35	31	38	48	55	48	56	41.0
	Minimum	28	29	32	33	28	26	30	25	27	25	17	11	31	-6	-14	17	24	18	20	14	13	9	16	17	27	10	7	31	34	30	25	20.5
Marshall	Maximum	41	51	53	58	60	60	42	50	41	28	40	35	..	..	12	37	41	37	..	..	21	..	29	39	31	33	38	41	55	45	55	[e]41.4
	Minimum	28	29	30	31	29	28	22	27	26	14	10	..	4	3	-17	9	31	18	..	..	13	..	9	9	20	16	5	33	31	30	26	[d]19.3
Nevada	Maximum	46	56	60	60	65	51	49	53	45	35	45	41	36	22	22	41	43	38	29	36	36	20	29	33	42	39	40	49	59	52	57	42.9
	Minimum	24	30	35	31	32	30	28	28	29	18	19	33	21	7	-3	20	28	21	23	25	16	13	18	27	32	20	10	35	40	31	30	24.3
Warsaw	Maximum	53	56	59	58	65	62	48	51	46	48	44	42	48	30	25	43	49	46	34	45	37	31	31	36	38	42	41	52	65	62	57	46.6
	Minimum	28	29	26	29	25	26	28	23	23	19	12	33	23	5	-9	19	25	24	19	22	18	10	21	28	30	21	8	38	26	31	23	22.0
Northwest Plateau.																																	
Chillicothe §§	Maximum	42	53	53	54	60	48	43	53	30	33	40	39	27	14	24	34	37	18	25	18	15	17	27	39	33	21	37	50	51	46	57	36.7
	Minimum	27	30	32	34	30	28	23	25	26	15	9	11	26	0	-24	-23	12	14	13	6	6	3	3	6	7	15	5	5	32	30	26	14.6
Grant City	Maximum	40	51	50	50	56	48	40	51	45	31	37	40	38	18	9	34	36	22	25	23	15	16	29	39	34	29	31	53	52	46	53	36.8
	Minimum	23	33	33	33	32	27	27	26	23	15	9	24	18	5	-14	6	15	8	11	0	5	0	11	6	20	6	8	31	32	29	26	17.0
Kansas City	Maximum	47	53	57	57	63	45	42	54	43	36	42	41	32	14	22	37	37	19	25	22	19	14	28	36	35	30	36	50	51	49	56	38.5
	Minimum	26	34	42	35	41	31	29	32	23	19	16	32	13	1	-1	22	19	13	19	13	12	6	14	21	30	14	12	36	41	35	37	23.1
Kidder §§	Maximum	35	46	51	52	57	55	40	41	25	15	33	33	24	11	21	21	29	16	16	15	12	18	18	30	34	14	36	48	49	33	39	31.2
	Minimum	21	23	30	30	30	26	28	23	23	13	10	10	22	0	-15	-14	17	9	12	5	6	2	5	10	16	12	6	6	32	29	26	14.6
Lexington §§	Maximum	38	51	55	55	58	50	42	52	30	33	40	40	38	20	11	36	36	34	25	24	20	16	27	36	34	33	35	46	54	47	55	37.8
	Minimum	26	31	31	33	30	29	26	28	28	17	13	33	22	3	-15	10	11	15	17	13	14	6	14	12	20	20	7	32	35	31	30	20.1
Maryville	Maximum	47	54	52	53	61	46	40	51	41	33	38	39	34	17	11	34	37	22	25	18	15	16	27	42	33	29	34	53	52	47	54	37.3
	Minimum	24	30	34	32	30	29	26	27	22	15	11	32	16	2	-9	-9	20	9	13	15	6	1	13	11	22	9	10	29	34	29	27	18.1
Oregon	Maximum	49	54	55	56	63	52	43	55	44	35	42	39	30	16	14	34	39	24	24	20	16	19	30	40	34	32	34	51	53	52	55	38.8
	Minimum	24	31	37	35	34	29	27	26	23	15	14	30	15	2	-7	11	22	11	14	9	7	2	13	11	26	11	11	31	38	29	30	19.8
St. Joseph	Maximum	47	53	54	55	61	47	42	53	40	32	42	41	30	13	20	34	39	16	24	18	17	15	27	37	34	21	37	48	52	48	51	37 2
	Minimum	26	34	39	34	34	31	29	27	23	18	15	30	11	-1	-6	20	16	12	15	11	10	7	14	12	24	13	12	34	40	32	33	20.9
Trenton	Maximum	52	50	48	53	57	48	42	52	40	28	36	37	32	22	9	36	37	25	28	25	19	16	28	37	33	18	30	49	51	47	53	36.7
	Minimum	28	34	33	36	34	29	24	30	23	17	11	30	22	7	-14	3	15	11	13	8	9	5	8	10	14	13	7	30	33	31	28	18.8

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 3-28-27-890.

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CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXXI. COLUMBIA, MO., FEBRUARY, 1927. No. 2.

GENERAL SUMMARY.

Unusual and persistent warmth for winter and something of scarcity of rain and snow were the outstanding features of February, 1927, in Missouri. Following a mild January in all of the State, about three weeks of the four comprising February were as warm and even warmer than the normal for March and the first ten days in April. It was the warmest February in about 40 years.

There was one moderate cold wave, but the month was free from the type of cold waves that are usually experienced at this time of the year. There was no zero weather during the current month, while in the past zero and subzero cold has been experienced in 35 of 39 Februarys, and some of these have given the coldest weather ever observed in Missouri. There was no damage from winds or other conditions.

The weather was mainly favorable for outdoor work and winter grains. It was, however, unfavorably warm for fruit, causing the trees to start out of their dormant state. Much plowing was done and oats and clover sown the latter part of the month.

TEMPERATURE.

The monthly mean temperature for the State, 68 stations reporting, was 41.3°, or 9.5° higher than normal, and only about 3° lower than the normal for March. It is the greatest plus departure for any February of record, and is the fourth consecutive outstanding mild February. There was no severe cold at any time, and only seven days had temperatures below normal; there were about 20 days warmer than normal and on most of those days the warmth approximated the usual for the first ten days of April. The highest temperature was 78°, while the lowest was 1°, on the 8th and 18th respectively.

PRECIPITATION.

The monthly precipitation, based upon the reports of 103 stations, was 1.08 inches, or about one-half of the usual, as compared with the 56 years' average. The moisture, however, was well distributed and was ample for present needs. Fair weather and wet periods alternated regularly, the former being somewhat more pronounced. The greatest monthly total was 2.43 inches, at Campbell, and the least was 0.22 inch, at St. Charles.

SNOW, SLEET, GLAZE, AND WIND.

February usually is the month of heaviest snows. The present February was an exception, the snowfall for the State, as a whole, being light and irregular, averaging about 2.3 tnches. There were two snowstorms, the first coming along about the 9th, and was more or less general, and the other occurred at the close of the month but was confined to the western part of the State; in the southwestern part amounts were quite up to the usual, running to more than 6 inches in some localities, resulting in some temporary traffic discomfiture.

Sleet or glaze, probably both, occurred on the 9th at Dean, Neosho, and Seligman; on the 13th at Gorin, and Unionville; on the 17th at Kirksville, Lamonte, and Edgerton; on the 18th at Lebanon. Amoret, and Chillicothe, and at Seymour on the 1st, 9th, and 18th. There was no damage or loss reported. At Morehouse, on the 18th, there was a mixed storm of rain, sleet, and snow, with thunder and lightning and high wind. There was no damage.

Strong winds occurred on the 25th in Cape Girardeau, St. Francois, Wayne and adjacent counties. Apparently a straight flowing wind, reaching a gale at some points, but resulting in no material damage.

MISCELLANEOUS PHENOMENA.

Fogs, dense.—On the 1st, 2d, 3d, 5th, 12th, 13th, and 14th.

Halos, lunar.—On the 9th, 11th, 12th, 14th, 15th, 19th, and 24th.

Halos, solar.—On the 3d, 5th, 6th, 7th, 11th, 14th, 15th, 19th, 21st, 24th, and 27th.

Thunderstorms (or thunder heard).—On the 4th, 6th, 15th, and 17th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	30.06	80	65	170	56	6,038	9.0	31	n.	17
Hannibal	30.06	79	..	...	..	6,343	9.4	38	sw.	15
Kansas City	30.06	79	62	193	64	7,674	11.4	53	sw.	15
St. Joseph	30.06	84	65	206	69	5,626	8.4	37	nw.	24
St. Louis	30.06	77	64	132	44	8,236	12.3	46	n.	25
Springfield	30.04	82	60	168	55	7,508	11.2	37	n.	17
Cairo, Ill	30.06	82	66	...	..	8,193	12.2	50	n.	18
Keokuk, Iowa	30.08	76	67	197	66	5,469	8.1	29	n.	24

COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	33.0	+2.0	73	−11	2.04	−0.28	.....	.....	7	....	....	....
1889	29.3	−1.7	73	− 9	2.57	+0.25	...	.....	7	....	....	....
1890	35.5	+4.5	81	− 7	2.24	−0.08	.....	.....	7	....	....	....
1891	32.7	+1.7	76	− 8	2.28	−0.04	.....	2.4	6	....	....	....
1892	37.7	+6.7	71	2	4.15	+1.83	.....	.....	9	7	6	16
1893	27.9	−3.1	65	−20	1.98	−0.34	2.30	4.6	6	10	7	11
1894	30.8	−0.2	72	−12	2.52	+0.20	2.60	11.2	6	10	8	10
1895	23.6	−7.4	77	−26	0.55	−1.77	1.10	3.3	5	10	10	8
1896	35.6	+4.6	81	−10	1.61	−0.71	2.20	4.1	5	12	8	9
1897	34.8	+3.8	74	−15	2.30	−0.02	3.60	8.2	7	7	7	14
1898	35.4	+4.4	78	− 9	1.62	−0.70	2.90	0.8	5	13	6	9
1899	20.4	−10.6	72	−32	2.17	−0.15	4.30	5.3	6	12	8	8
1900	26.2	−4.8	70	−16	3.92	+1.60	2.85	16.6	10	10	6	12
1901	28.1	−2.9	76	−19	1.63	−0.69	2.36	7.6	6	13	7	8
1902	24.0	−7.0	72	−17	1.50	−0.82	2.35	5.8	5	11	8	9
1903	29.8	−1.2	74	−25	2.92	+0.60	2.65	5.3	7	11	6	11
1904	30.0	−1.0	82	−18	0.91	−1.41	1.46	1.5	5	11	8	10
1905	21.5	−9.5	69	−40	1.64	−0.68	1.20	13.2	8	11	6	11
1906	33.7	+2.7	73	−13	2.28	−0.04	2.40	4.1	7	15	6	7
1907	34.8	+3.8	77	−15	1.65	−0.67	3.72	4.5	6	12	5	11
1908	35.6	+4.6	78	− 7	4.32	+2.00	4.28	4.1	9	13	6	10
1909	38.8	+7.8	71	− 4	3.38	+1.06	2.50	3.1	9	13	5	10
1910	28.3	−2.7	72	−24	1.98	−0.34	3.00	7.7	6	12	6	10
1911	38.1	+7.1	87	0	3.64	+1.32	2.08	6.3	8	12	5	11
1912	28.3	−2.7	72	−12	2.45	+0.13	3.20	11.9	6	10	7	12
1913	29.8	−1.7	78	− 9	2.21	−0.18	4.78	8.5	7	12	5	11
1914	28.3	−3.2	75	−11	2.71	+0.42	2.80	14.0	7	12	6	10
1915	39.4	+8.0	72	7	3.18	+0.81	2.05	4.1	8	9	5	14
1916	31.4	+0.2	78	−12	0.98	−1.48	2.70	5.0	5	13	6	10
1917	30.5	−1.0	83	−22	0.41	−2.03	1.24	1.4	2	14	7	7
1918	34.9	+4.6	83	−25	1.11	−1.26	2.00	0.6	4	15	6	7
1919	35.3	+4.0	71	−10	1.98	−0.35	2.20	6.4	7	13	4	11
1920	34.5	+3.2	78	− 5	0.57	−1.68	1.41	1.2	4	11	6	12
1921	40.1	+9.1	86	5	0.94	−1.33	2.00	1.8	4	14	6	8
1922	35.4	+4.1	80	− 5	1.79	−0.44	1.65	1.9	5	14	6	8
1923	30.2	−1.2	75	− 9	1.37	−0.88	2.20	1.4	5	13	5	10
1924	33.8	+2.0	79	− 5	1.84	−0.31	1.60	8.1	7	14	4	11
1925	38.7	+6.9	78	1	1.85	−0.30	1.78	1.7	6	12	6	10
1926	39.4	+7.6	76	− 4	2.08	−0.07	2.00	2.9	6	11	6	11
1927	41.3	+9.5	78	1	1.08	−1.07	1.48	2.3	5	10	8	10

Climatological Data for February, 1927

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	47	39.9	+10.8	66	15†	13	18	39	1.07	−0.78	0.40	0	5	10	5	13	sw.	O. K. Benecke
Clifton Hill	Randolph	731	27	38.4	+ 9.2	67	23	12	10†	39	1.10	−0.23	0.37	0.2	6	13	7	8	...	Dr. A. J. Bradsher
Columbia	Boone	748	36	40.0	+ 8.3	66	15	13	10	35	0.57	−1.56	0.17	2.9	7	7	8	13	s.	U. S. Weather Bureau
Downing	Schuyler	878	5	36.6	......	65	23	10	18	36	0.49	−0.91	0.16	1.0	5	14	4	10	n.	E. E. St. Clair
Fayette	Howard	661	46	38.6	+ 8.4	69	22	6	10	45	0.67	−1.23	0.28	2.0	4	..	..	..	.....	J. D. Settle
Fulton	Callaway	818	38	39.2	+ 6.5	68	24	13	10†	37	0.48	−1.41	0.16	4.0	8	14	10	4	....	Chamber of Commerce
Gorin	Scotland	700	39	....	......	..	..	..	..	..	1.07	−0.42	0.42	0	5	9	11	8	nw.	J. W. Pulliam
Hannibal	Marion	534	34	38.7	+ 9.0	65	23	18	10	28	1.43	−0.17	0.40	0.9	11	8	8	12	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	41.7	+10.8	70	3†	13	10	33	0.49	−1.60	0.18	5.0	5	15	5	8	n	Miss Emma Swift
Kirksville	Adair	969	37	36.8	+10.9	64	23	10	18	32	0.87	−0.95	0.35	T.	3	12	6	10	nw.	Prof. J. S. Stokes
Louisiana	Pike	469	32	40.6	+10.9	66	23	8	10	33	0.84	−1.51	0.28	2.0	5	15	2	11	w.	J. T. Farrell
Macon	Macon	875	27	38.0^{a}	+ 9.3	67	23	13	18†	36	0.96	−0.99	0.31	0	5	15	7	6	se.	W. C. Brown
Mexico	Audrain	800	37	38.8	+ 9.5	69	22†	9	19	40	0.68	−1.53	0.22	2.5	9	15	0	13	sw.	Mrs. Abbie Snoddy
St. Charles	St. Charles	456	38	41.8	+ 9.3	71	3	15	11	39	0.22	−2.41	0.14	0.5	3	9	9	10	n.	L. C. Saeger
St. Louis (1)	St. Louis City	717	52	43.2	+ 8.4	70	5	21	19	29	0.56	−2.19	0.21	2.1	5	8	5	15	n.	U. S. Weather Bureau
St. Louis (2)	....do	578	14	42.5	+10.3	67	5	22	10†	27	0.62	−1 69	0.23	1.4	6	8	7	13	nw.	St. Louis University
Shelbina	Shelby	779	33	....	......	..	..	..	..	..	1.66	−0.26	0.75	0	7	..	..	..	.....	J. C. Jewett
Steffenville	Lewis	650	28	39.2	+10.8	68	23†	10	10	36	1.95	+0.10	0 70	T.	7	12	7	9	s.	Frank Hall
Unionville	Putnam	1,062	33	35.6	+10.2	62	23	6	18	42	2.15	+0.32	0.45	7.0	6	11	8	9	sw.	Geo. W. Davis
Warrenton	Warren	816	44	42.0	+12.1	69	23	12	10	35	0 59	−1.60	0.30	1.5	5	9	13	6	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	574	54	36.8	+ 8.5	64	23	15	18	28	1.38	−0.24	0.54	1.2	6	10	8	10	w.	U. S. Weather Bureau
Section means and	extremes	.....	..	39.4	+ 9.6	71	3	6	10†	45	0.95	−1.01	0.75	1.6	6	11	7	10	nw.	
Southeast Lowlands.																				
Benton	Scott	340	1	....	......	..	..	..	..	..	1.96	......	0.75	0	8	..	..	..	.....	E. R. Tirmenstein
Campbell	Dunklin	314	1	48.0	......	75	4†	22	11	38	2.43	... ..	1.48	0	7	11	6	11	s.	Jeff. King
Caruthersville	Pemiscot	265	30	50.2	+11.3	75	5†	26	19	32	1.64	−2.16	0.56	1.4	8	10	5	13	nw.	John T. Markey
Doniphan	Ripley	344	22	46.2	+ 8.1	76	5	20	10	45	2.10	−1.05	1.25	2.0	5	6	14	8	sw.	W.W. Martin
Jackson	Cape Girardeau	428	35	46.4	+10.9	73	5	15	11	44	1.13	−1.76	0.37	6.0	6	2	7	19	n.	John G. Putz
Marble Hill	Bollinger	470	31	46.3	+11.0	75	5	13	11	49	1.37	−1.91	0 65	2.0	3	7	12	9	n.	R.A. DeWitt
Morehouse	New Madrid	289	25	....	......	..	..	..	..	..	1.77	−1.49	0.65	0.9	6	10	7	11	n.	John A. Spence
Parma	New Madrid	281	5	....	......	..	..	..	..	..	2.38	......	1.46	1.4	5	..	..	..	....	H. W. Kendall
Patton	Bollinger	605	17	....	......	..	..	..	..	..	0.58	−1.36	0.29	1.5	4	..	..	..	..	S. P. Presnell
Poplar Bluff	Butler	329	22	47.6	+11.3	77	16	18	11	38	1.83	−1.13	0.52	3.5	6	15	7	6	s.	J. H. Wolpers
Sikeston	Scott	318	21	45.0	+ 8.4	73	17	22	11	38	1.03	−2.23	0.27	2.0	8	11	5	12	sw.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	359	51	46.9	+ 8.4	70	5	23	19	26	1.36	−1.97	0.48	1.2	7	3	7	18	n.	U. S. Weather Bureau
Section means and	extremes	....	..	47.1	+ 9.9	77	16	13	11	49	1.63	−1.67	1.48	1.9	6	8	8	12	n.	
Ozark Plateau.																				
Arcadia	Iron	926	45	40.2	+ 6.7	76	5	9	11	48	0.54	−2.62	0.28	2.7	3	19	1	8	nw.	Arcadia College
Aurora	Lawrence	1,370	36	45.0	+11.4	73	5	15	10	38	0.99	−1.83	0.28	T.	5	6	15	7	sw.	W. T. Troughton
Birchtree (near	Shannon	1,000	31	46.5	+11.6	77	16	12	11	40	1.03	−1.46	0.65	1.0	4	12	7	9	se.	V. H. Kirkendall
Bolivar	Polk	1,071	32	....	......	..	..	..	..	..	1.24	−1.05	0.45	3.8	8	..	..	..	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	27	....	......	75	5†	..	..	..	0.82	−1.01	0.33	2.0	6	13	4	11	sw.	H. E. Dean
Eldon	Miller	934	30	43.3	+11.4	76	16	14	2	44	0.91	−1.19	0.82	1.0	2	17	5	6	s.	E. H. Shepherd
Farmington	St. Francois	918	15	43.8	+ 8.2	75	5	11	11	39	0.97	−2.32	0.24	3.5	7	7	14	7	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	22	43.6	+ 9 1	72	5†	12	10	39	0.93	−1.45	0.35	3.0	6	9	11	8	s.	A. C. Leach
Goodland	Iron	1,000	32	43.8	+10.9	77	5	8	11	45	0.64	−1.85	0.22	2.2	4	16	6	6	n.	F. M Adams
Greenville	Wayne	381	4	43.6	......	70	4†	15	11	40	1.63	......	0.53	2.0	5	14	8	6	s	Wm. P. Owens
Hailey	Barry	1,350	1	....	......	..	..	..	..	..	0.85	......	0.30	6.5	4	16	4	8	sw.	A. W. Madison
Hollister	Taney	735	39	41.5	+ 3.5	78	8	10	11†	59	2.10	+0.02	0.60	17.0	4	18	2	8	sw.	Mrs. W. P. Chapman
Koshkonong	Oregon	958	25	49.9^{a}	+12.4	77	16	19	19	38	1.68	−1.11	0.60	2.0	5	14^{a}	6^{a}	7^{a}	n.	R. M. Hitt
Lebanon	Laclede	1,265	38	41.3	+ 7.4	73	16†	10	10	41	0.78	−1.72	0.25	1.5	5	12	9	7	sw.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	20	42.1	+ 6.6	63	5	11	10	29	0.73	−1.24	0.20	4.2	6	18	3	7	sw.	C. S. Crow
Mountain Grove (near)	Wright	1,463	25	44.2	+10.4	74	6†	11	19	50	0.96	−1.30	0.30	2.5	7	11	9	8	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	46.0	+ 9.4	76	5	15	10	54	0.93	−1.45	0.30	6.0	5	18	4	6	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	26	44.4	+ 9.2	74	17	14	10	37	1.19	−1.15	0.30	6.2	8	7	14	7	s	Prof. Elmo G. Harris
Seligman	Barry	1,542	24	46.6	+10.4	71	5†	12	19	47	2.33	+0.45	0.52	6.5	7	12^{a}	8^{a}	7^{a}	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,612	20	43.4	+11.0	72	16†	11	11†	44	0.93	−1.52	0.48	3.0	5	12	8	8	s.	Ira H. Hailey
Springfield	Greene	1,350	38	43.8	+ 8.6	71	15	16	10	39	0.79	−1.48	0.20	2.9	8	12	11	5	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	44 1	+ 9.3	78	8	8	11	59	1.09	−1.35	0.82	3.8	5	13	8	7	sw.	
Southwest Plain.																				
Amoret	Bates	831	19	41.4	+ 7.7	70	16	10	18	36	0.55	−1.60	0 32	0.5	3	13	5	10	n.	Andrew Rood
Appleton City	St. Clair	853	32	41.9	+ 9.6	70	15†	11	10	40	0.36	−1.61	0.21	1.0	4	7	16	5	sw.	W. G Bigelow
Centerview	Johnson	.....	39	42.5	+11.2	68	3†	13	18	39	0.93	−1 20	0.60	0.5	7	8^{b}	14^{b}	4^{b}	sw	....
Clinton	Henry	765	33	42.0	+10.1	70	4†	11	28	40	0.79	−1.31	0.20	2.0	7	6	15	7	ne.	A. E. Derwent, M. D.
Harrisonville	Cass	904	49	39.4	+ 9.7	68	15†	9	18†	39	0.76	−1.26	0.27	0.5	6	6	0	22	s.	John H. Patterson
Lamar	Barton	980	39	41.6	+ 7.1	72	15	7	11	41	0.67	−1.56	0 20	5.0	6	12	7	9	sw	Jesse A. Mann
Lamonte	Pettis	867	25	40.6	+ 9.0	72	16	9	10	41	1.24	−0.67	0.32	2.0	8	17	7	4	se	J. E. Wheeler
Marshall	Saline	779	37	40.4^{c}	+10.9	71	8	13	10†	41	1.02	−0.82	0.33	1.0	5	14^{a}	7^{a}	6^{a}	nw.	Dr. W. H. Black
Nevada	Vernon	862	33	43.4	+11.5	71	15	5	10	40	0.37	−1.71	0.32	4 5	2	14	5	9	s.	George A. Kaupp
Warsaw ‡‡	Benton	687	26	43.2	+ 9.4	74	5	3	10	46	0 50	−2.06	0.50	5.0	1	19	6	3	w.	Everett Martin
Section means and	extremes	.....	..	41.6	+ 9.6	74	5	3	10	46	0.72	−1.38	0.60	2.2	5	12	8	8	sw.	
Northwest Plateau.																				
Bethany	Harrison	916	34	36.2	+ 9.2	62	22†	4	18	44	0.64	−0.80	0.40	1.0	3	14	5	9	nw.	M. H. Moulton
Chillicothe	Livingston	779	17	36.9	+ 4.4	65	15	8	18	40	1.30	−0.71	0.49	2.5	4	17	4	7	nw	Wm. J. Olenhouse
Conception	Nodaway	980	37	35.6	+ 8.5	61	23	2	18	44	0.59	−0.60	0.35	2.0	5	8	12	8	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	6	38.2^{c}		69	16	4	10	39	1.31	−0.14	0.48	1.0	5	14	3	11	n.	Fred L Stiff
Grant City	Worth	1,134	22	35.2	+ 7 9	60	3	1	18	41	0.80	−0.32	0.50	5.0	3	12	9	7	sw.	W. P. Spillman
Kansas City	Jackson	963	37	40.3	+ 9.1	67	16	8	18	38	0.85	−0.74	0.35	0.4	7	8	9	11	n.	U. S. Weather Bureau
Kidder	Caldwell	1,020	33	33.5	+ 5.7	61	15†	5	18†	37	1.18	−0.34	0.40	0	4	13	5	10	nw.	Linn Terry
King City	Gentry	1,095	1	....	......	..	..	..	..	..	1.02	......	0.54	0	4	..	..	..		D. B. Oliver
Lexington	Lafayette	688	41	40.4	+11.0	67	15	10	18	40	0.96	−1.04	0.31	0.4	5	12	7	9	s.	Edwin G. Loomis
Liberty	Clay	859	35	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	..	Doran H. Coffman
Maryville	Nodaway	1,169	36	35.8	+11.7	62	16	2	18	39	1.01	−0.43	0.41	3.2	5	15	1	12	e.	J. R. Brink
Oregon	Holt	1,048	70	37.9	+ 9.7	66	16	3	18	35	1.86	+0.24	0.53	1.0	5	12	10	6	ne.	Mina Wright
St. Joseph	Buchanan	967	18	38.0	+ 7.0	64	16	5	18	36	1.37	−0.14	0.50	0.7	8	16	5	7	sw.	U. S. Weather Bureau
Tarkio	Atchison	916	23	33.9	+ 5.9	59	22	1	18	38	1.30	+0.23	0.53	3 5	4	11	6	11	nw.	Albert Volker
Trenton	Grundy	822	30	36.4	+ 7.9	62	23	8	18	34	1.29	−0.24	0.55	2.3	4	12	9	7	sw.	W. H. Estes
Section means and	extremes	.....	..	36.9	+ 8.2	69	16	1	18	44	1.13	−0.39	0.55	1.4	5	13	6	9	sw.	
State means and	extremes	.....	..	41.3	+ 9.5	78	8	1	18	59	1.08	−1.07	1.48	2.3	5	10	8	10	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5. ‡ Indicates plus.

Daily Precipitation for February, 1927

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri					.28			.10	.04					.06		T.		.10							T.							0.58
Brunswick‖	Grand				.40				.07						.18		.02		.40														1.07
Clifton Hill	Chariton				.12	.18			.25	.02				.16				.37															1.10
Columbia***	Missouri				.17			.09	.03	.14				.09	T.	T.	T	.04	T.						.01			T.					0.57
Downing	Mississippi				.15	.04				T.				.16				.11							T.	.03	T.	T.					0.49
Fayette‖	Missouri					.28			.14	.12					.13																		0.67
Fulton	...do					.04			.05	.16	.05			.07	.03		T.	.01	.07														0.48
Gorin	Mississippi				.42			.03						21				.28							.13								1.07
Hannibal***	...do				.32			.11	.11	.04				.20	.02	.04	T.	.40	T.				T.		.13	.05	.01	T.	T				1.43
Hermann‖	Missouri					.03			.02	03				.31	.03		.05																0.47
Jefferson City‖	...do									.15	.03			.18	.03											.10							0.49
Kirksville	Mississippi				.20					T.				.35				.32															0.87
Louisiana	...do								.26	.10				.28			.04									.16	T.	T.					0.84
Macon ‖	Chariton					.31			.09		T.			.05	.22											.29							0.96
Mexico ‖	Mississippi					.22			.05	.12	.05			.09	.04		.02		.04							.05							0.68
Milan ‖	Grand					.50										.10				.40			T.										1.00
Pacific‖	Meramec		.02	T.		.06				T.	.15			.11												.07							0.41
St. Catharine(near)	Grand																																....
St. Charles	Missouri				T.					.05			.14	T.			.03									T.							0.22
St. Louis (1)***	Mississippi	T.	T.		.11		T.			.18				.21			T.	.01								.05	T.						0.56
St. Louis (2)*	...do			T.	.16					.14				.23	.03		T.	.01								.05							0.62
Shelbina ‖	...do					.37			.17					.08	.12		.03		.75							.14							1.66
Steffenville	...do				.25	.35			.15	T.				.30	.10			.70							T.	.10	T.	T.					1.95
Union‖	Meramec					.09				.07	.14			.06	.06				.01							.03							0.46
Unionville ‖	Chariton				.35	.45								.40	.35			.20								.40							2.15
Warrenton	Mississippi				.13					.10	.04			.30	.02				T.						T.								0.59
Keokuk, Ia.***	...do				.54	T.		.11		T.				.26	T.			.27					T.		.16	.04	T.	T.					1.38
Southeast Lowlands																																	
Benton	Mississippi	.52	.02	.01			.30				.17			.12					.75		.07												1.96
Campbell‖	St. Francis	.35	.05				.05				.12			.28					1.48		.10												2.43
Cape Girardeau‖	Mississippi	.05	.35	.03	.04		.01				.05			.05	.07				.32		T.	.02				.01							1.00
Caruthersville ‖	... do	.56	.22				.22				T.		.10		.20				.20		.09								.05				1.64
Dexter‖	St. Francis		.72				.71				.12	T.							.38	.02	.03												1.98
Doniphan	Black	1.25	.30				.17				.13							.25											T.				2.10
Jackson	Mississippi	.37	.02								.21			.18					.25		.10												1.13
Marble Hill	Mississippi	.65									.20			.52					T.														1.37
Morehouse	...do	.65					.34				.05			.24					.45		.04												1.77
New Madrid‖	...do		.35		.03		.10	.02			.08	.10	.05	.15	.18				2.00	.05	.07	.03		.05									3.26
Parma	St. Francis	.40					.15			.14				.23				1.46															2.38
Patton	Mississippi	.29								.12				.05	.12		T.				T.												0.58
Poplar Bluff ‖	Black	.52			.21					.15			.35					.40											.20				1.83
Sikeston‖	Mississippi	.02	T.				.21				.10	T		.25	.02				.27		.10	T.		.03									1.03
Cairo, Ill.***	... do	.48		T.	T.		.36			T.	.05		T.	.10			T.	.13	.20		.04					T.							1.36
Ozark Plateau.																																	
Arcadia ‖	St. Francis	.11		T.						T.	.28	T.		T.	.15				T														0.54
Aurora	Neosho	.28							.21	T.	.15			.23					.12									T.	T.				0.99
Birchtree(near)	Black	.65									.20			.12					.06										T.				1.03
Bolivar	Osage	.07	.06	.01					.02	.18	.20				.45														.25				1.24
Caplinger Mills	Osage				T.			T.		.72				.15	T.				T.					T.				.10	.05				1.02
Dean	Neosho	.15							.02	.33				.09					T.									.03	.20				0.82
Eldon‖	Missouri												.82																.09				0.91
Farmington	St. Francis	.15								.02	.24			.18	.20		T.		.12							.06							0.97
Fredericktown‖	... do											.90						.21							.16								1.27
Galena‖	White	.40						.10		.15			.08																				0.73
Gano	Meramec	.12								.12	.24			.29	.06				.10							T.							0.93
Goodland	Black	.12									.22			T.	.18				.12														0.64
Greenville	St. Francis	.50					.07				.23			.30					.53														1.63
Hailey	White	.25															20		.10										.30				0.85
Hollister	... do		.40							.50									.60										.60				2.10
Jerome ‖	Gasconade																																....
Koshkonong	Black	.60					.45				.20			.35					.08									T.					1.68
Lebanon ‖	Osage	.10	T.							T	.15			.14	.25					.14													0.78
Lockwood	...do	.18							.20	.15				.08					T.									.02	.10				0.73
Mountain Grove‖	White		.20		.02				T.	.03	.18			.30					.20									.03					0.96
Neosho	Neosho	.16			T.				.25	.10				T.					T.									.12	.30				0.93
Owensville ‖	Gasconade								.08		.10			.12															T.				0.30
Rolla ‖	Meramec	.12			.10				.02	.26			.15	.16			T.									.08			.30				1.19
Seligman	Neosho	.18					.13			T.	.50			.52					.50									.15	.35				2.33
Seymour (near)	White	.48	T.		T.				T.	.14	08			.14					T.									T.	.09				0.93
Springfield***	...do	.16			.01				.04	.17			T	.20				.10	T.						T.			.01	.10				0.79
Steelville‖	Meramec	.05									.20			.33	.25				.10														0.93
Stover ‖	Missouri									* *	.50				.07																		0.57
Tuscumbia ‖	Osage	T.								.20	.09			.18	T.				.06							T.							0.53
Willow Sprgs.‖ (near)	White	.30	.35								.24			.32					10	.03								.02					1.36
Southwest Plain.																																	
Amoret	Osage				32									.18					.05										T.				0.55
Appleton City	...do				.12			.01		.21				T.	T.			T.	.02										T.				0.36
Centerview	Missouri			.60				.01		.04				.22	.02		.03		.01				T.		T.								0.93
Clinton	Osage				.15	.03		.05	.03	.18	.15			.20				T.	T.										T.				0.79
Concordia‖	Missouri							.25						.43					.64														1.32
Harrisonville‖	Osage					.15			.10	.05					.27		.03		.16										T.				0.76
Joplin*	Neosho	.06			T.				.50	.25			T.	.04				T.	.03									T.	T.				0.88
Lamar ‖	...do					T.			.18	.05	.20			.05	.11				.08									T.	T.				0.67
Lamonte	Missouri				.10			.10		.32				.28	.03		.01	.15	.25														1.24
Marshall	.... do					.08		T.	.33	.10	T.			.27				.24	T.				T.										1.02
Nevada	Osage								T.	.32				T.														T.	.05				0.37
Osceola‖	...do					.10				.52	.40						.10																1.12
Warsaw ‖	...do									.50																							0.50
Waverly ‖	Missouri					.20			.23	.03					.26		T.	T.	.33														1.05
Northwest Plateau.																																	
Albany‖	Grand					1.05								.50											.35								1.90
Bethany	...do		T.		.40	.14				T.				.10				T.								T.			T.				0.64
Chillicothe‖	...do					.25	T.		T.	.26	T.				.30				.49							T.							1.30
Conception	Missouri				.35									.10	.07			T.								.06	T.	T.	.01				0.59
Edgerton	...do		.01		.48					.10				.34				.38											T.				1.31
Gallatin ‖	Grand					.40				T.					.50				T.														0.90
Grant City	.... do					.06								.24	.50																		0.80
Kansas City***	Missouri		T.		.14			T.	.01	.02				.26		.02		.35							T.				.05				0.85
Kidder ‖	Grand					.38									.37				.40							.03							1.18
King City	Missouri				.41	.03								.54												.04							1.02
Lexington ‖	...do					.30				.03					.31			.10					.22										0.96
Liberty ‖	...do																																...
Maryville ‖	...do		.15		.41	T.	.03							.05	.37			T.							T.				T.				1.01
Oregon	...do		T.		.52	53								.44	.27			.10											T.				1.86
St. Joseph***	...do		.01	T.	.50	T			T.	.02			T.	.39	.04			.35							.01			T.	.05				1.37
Tarkio	...do				.53	.30								.10	.37																		1.30
Trenton	Grand		T.		.55	T.				T.				.40				.11					T.		T.				.23				1.29

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for February, 1927

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	55	52	61	58	59	53	50	47	29	35	45	51	47	42	66	65	57	35	42	47	56	64	66	63	55	41	37	33	..	..	..	50.4
	Minimum	38	29	45	40	46	34	29	25	20	15	23	28	35	34	27	39	33	13	18	20	28	33	36	32	28	33	23	19	..	..	..	29.4
Columbia	Maximum	54	56	63	60	61	50	50	44	26	32	45	51	42	45	66	64	57	29	42	44	58	65	66	61	48	41	29	32	..	..	..	49.3
	Minimum	33	31	45	44	47	34	30	26	21	13	18	33	36	35	31	45	28	18	19	22	32	43	40	33	31	27	23	22	..	..	..	30.7
Fayette §§	Maximum	59	57	65	59	57	56	49	39	36	37	47	53	43	42	68	64	54	46	44	49	61	69	68	64	52	44	35	32	..	..	..	51.8
	Minimum	33	23	31	38	42	34	25	27	18	6	10	18	31	34	23	30	34	14	15	20	23	33	32	29	28	26	21	17	..	..	..	25.5
Hannibal	Maximum	53	49	61	48	59	50	50	42	28	34	43	48	38	41	58	63	44	28	41	43	57	63	65	60	48	36	26	35	..	..	..	46.8
	Minimum	35	29	45	39	44	35	31	25	22	18	21	28	34	33	30	43	28	18	20	24	32	45	39	36	32	24	22	25	..	..	..	30.6
Jefferson City §§	Maximum	55	58	70	66	67	48	55	40	27	30	45	52	45	42	67	62	65	32	41	44	60	66	70	65	50	46	49	33	..	..	..	51.9
	Minimum	31	30	37	41	49	40	27	37	20	13	16	24	37	38	38	42	42	22	18	22	28	40	40	35	31	30	30	22	..	..	..	31.5
Kirksville	Maximum	52	50	60	56	56	50	47	41	28	33	45	44	41	39	55	59	52	32	39	46	56	60	64	60	50	42	29	33	..	..	..	47.1
	Minimum	36	30	29	35	41	31	29	23	16	12	20	26	28	30	23	35	30	10	15	19	28	40	34	32	27	23	20	20	..	..	..	26.5
Louisiana	Maximum	53	55	62	65	62	54	52	44	33	35	44	52	46	45	56	60	58	41	45	45	58	62	66	62	56	45	34	35	..	..	..	51.0
	Minimum	35	27	33	40	50	44	27	32	23	8	20	25	33	35	25	46	34	20	20	25	25	42	34	32	33	30	24	24	..	..	..	30.2
Macon §§	Maximum	56	58	63	57	55	53	50	35	28	35	45	51	35	40	61	62	42	30	44	48	58	63	67	63	50	40	32	..	..	..	..	^{a}48.9
	Minimum	28	32	35	40	39	32	29	29	19	14	16	22	30	32	25	30	40	13	13	18	28	34	35	32	27	26	20	20	..	..	..	27.1
Mexico §§	Maximum	56	56	65	55	62	50	50	38	28	37	45	54	44	45	64	68	52	30	35	47	60	69	69	64	51	48	44	35	..	..	..	50.8
	Minimum	35	25	31	36	38	34	25	31	19	9	16	22	33	34	28	31	39	17	15	16	26	29	36	34	29	21	20	20	..	..	..	26.8
St. Catharine (near)	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
St. Louis (1)	Maximum	53	46	67	62	70	50	53	45	30	35	48	52	45	48	59	64	62	36	43	45	61	67	66	63	55	44	30	36	..	..	..	51.2
	Minimum	37	30	45	43	50	43	38	30	25	23	22	37	37	39	34	56	36	23	21	29	32	47	50	42	36	29	24	24	..	..	..	35.1
Unionville	Maximum	50	47	57	50	54	48	47	45	30	33	46	41	40	32	54	54	47	30	45	47	54	60	62	58	52	42	30	35	..	..	..	46.2
	Minimum	35	28	35	30	35	30	28	22	14	10	20	24	30	30	12	32	30	6	11	18	28	38	32	32	25	25	18	18	..	..	..	25.0
Warrenton	Maximum	56	53	66	55	67	60	55	50	33	33	48	53	48	43	60	62	62	48	42	43	61	64	69	64	57	46	37	32	..	..	..	52.4
	Minimum	35	29	44	41	50	40	31	32	22	12	13	33	35	37	28	50	41	21	17	23	26	44	43	36	32	30	21	19	..	..	..	31.7
Southeast Lowlands.																																	
Campbell	Maximum	47	49	73	75	73	68	57	61	54	39	45	47	54	65	70	75	71	65	43	49	61	65	70	67	56	60	49	36	..	..	..	58.7
	Minimum	29	35	44	53	60	52	33	33	35	27	22	38	43	47	32	57	43	29	21	28	27	51	44	41	39	31	26	24	..	..	..	37.4
Caruthersville	Maximum	55	56	72	70	75	65	60	58	52	42	46	45	60	68	72	70	75	62	40	45	60	66	68	69	59	63	55	39	..	..	..	59.5
	Minimum	34	37	48	50	53	50	45	42	36	31	27	41	45	47	43	55	56	30	26	29	32	52	46	48	45	35	31	28	..	..	..	40.8
Doniphan	Maximum	40	48	71	74	76	68	57	50	46	43	45	51	54	63	69	75	73	64	47	52	58	68	70	67	59	61	52	36	..	..	..	58.5
	Minimum	31	33	42	45	44	42	27	27	29	20	24	39	42	43	38	52	42	29	21	29	25	23	42	36	40	26	36	22	..	..	..	33.9
Jackson	Maximum	50	44	68	66	73	68	57	59	50	38	52	56	52	65	65	68	72	70	58	46	66	68	71	67	66	60	47	39	..	..	..	59.3
	Minimum	31	33	41	45	58	46	26	29	30	21	15	29	40	43	30	54	39	26	19	25	23	44	41	33	38	23	23	28	..	..	..	33.4
Poplar Bluff	Maximum	50	46	70	76	71	68	62	67	50	45	48	52	52	66	72	77	73	66	50	57	63	66	73	70	60	62	48	36	..	..	..	60.6
	Minimum	24	32	39	50	59	51	27	30	34	20	18	38	41	45	36	55	39	28	22	27	22	46	41	32	40	25	25	21	..	..	..	34.5
Sikeston	Maximum	55	41	56	70	69	71	51	56	60	41	42	44	49	53	66	65	73	72	35	41	45	59	64	69	67	49	60	34	..	..	..	55.6
	Minimum	28	32	36	50	50	35	34	34	37	27	22	25	39	46	35	36	47	31	23	23	29	31	44	43	42	30	26	29	..	..	..	34.5
Cairo, Ill.	Maximum	43	49	67	68	70	62	54	59	42	36	43	49	51	63	65	68	69	47	40	38	57	60	67	65	57	55	33	37	..	..	..	51.2
	Minimum	37	37	49	51	60	43	40	42	35	28	29	39	44	48	41	57	47	29	23	27	31	49	45	49	42	33	27	26	..	..	..	39.6
Ozark Plateau.																																	
Arcadia §§	Maximum	44	51	69	63	76	49	61	53	30	40	48	55	54	57	63	55	73	30	47	51	60	70	45	65	52	54	37	35	..	..	..	53.1
	Minimum	22	27	27	42	45	47	24	24	27	22	9	21	34	38	26	26	36	18	17	17	21	22	39	35	35	27	23	17	..	..	..	27.4
Birchtree	Maximum	52	46	69	73	75	68	62	57	41	37	46	50	57	57	67	77	70	65	49	52	61	70	70	66	64	58	49	36	..	..	..	58.7
	Minimum	35	28	40	52	56	45	27	35	26	22	12	37	41	40	33	52	49	25	17	22	25	45	45	41	34	31	25	20	..	..	..	31.3
Eldon §§	Maximum	38	59	70	72	85	80	65	72	51	65	62	62	62	62	76	61	32	45	38	60	67	68	64	50	50	35	35	34	..	..	..	58.0
	Minimum	32	14	16	30	33	37	42	50	44	31	28	45	26	19	30	32	19	19	19	22	29	42	34	31	30	26	20	23	..	..	..	29.4
Farmington	Maximum	45	44	72	68	75	67	60	49	38	33	40	53	51	53	62	68	72	63	39	45	70	72	70	62	58	42	37	33	..	..	..	55.0
	Minimum	33	28	40	42	45	43	25	32	25	23	11	33	38	39	27	47	41	21	17	27	39	45	42	39	35	28	23	19	..	..	..	32.5
Hollister	Maximum	50	48	64	70	65	62	75	78	72	60	50	55	61	62	75	74	75	70	50	52	61	60	59	60	68	65	60	38	..	..	..	62.3
	Minimum	24	22	10	32	30	31	30	20	18	15	10	30	32	30	26	24	30	14	10	15	10	15	12	18	20	21	15	15	..	..	..	20.7
Koshkonong	Maximum	48	50	72	76	72	74	61	58	45	38	47	52	60	60	71	77	71	67	57	51	60	70	70	68	59	62	64	..	..	..	..	^{a}61.6
	Minimum	39	31	45	54	58	48	32	38	28	23	21	38	42	43	36	54	52	45	19	25	31	45	47	40	37	34	27	..	..	..	..	^{a}38.2
Lebanon §§	Maximum	55	59	70	71	71	52	59	41	28	37	47	55	51	49	69	73	73	31	45	18	59	69	67	65	51	52	39	32	..	..	..	54.1
	Minimum	29	32	38	51	53	40	26	31	21	10	11	21	22	36	29	32	19	18	16	16	18	33	37	32	28	28	23	18	..	..	..	28.5
Mountain Grove	Maximum	54	46	64	65	70	74	52	59	49	28	32	48	55	58	48	67	74	71	50	48	48	57	68	67	63	64	54	35	..	..	..	56.0
	Minimum	35	31	39	50	52	44	30	39	21	16	20	27	36	38	31	43	50	21	11	21	30	38	39	35	30	34	24	19	..	..	..	32.4
Neosho	Maximum	54	64	74	68	76	74	66	61	37	36	45	55	55	55	73	70	69	60	43	49	61	67	71	70	75	51	54	35	..	..	..	59.7
	Minimum	33	33	55	51	48	43	28	34	22	15	18	39	43	33	19	48	45	16	16	16	26	37	32	28	31	46	27	23	..	..	..	32.3
Rolla	Maximum	54	52	68	68	71	66	58	56	33	38	48	57	57	49	65	73	74	52	45	47	59	69	67	65	60	53	40	32	..	..	..	56.3
	Minimum	36	26	45	46	57	41	29	32	21	14	16	35	38	37	28	50	16	22	18	20	29	43	41	36	32	30	23	19	..	..	..	32.5
Springfield	Maximum	50	59	66	69	69	60	57	49	31	31	45	53	51	48	71	69	70	31	42	46	59	65	65	63	48	50	36	28	..	..	..	53.1
	Minimum	37	39	53	56	56	40	33	31	21	16	22	38	41	33	35	52	31	17	17	22	32	46	46	41	31	33	25	21	..	..	..	31.5
Southwest Plain.																																	
Amoret	Maximum	61	56	61	68	67	58	49	48	33	36	46	49	49	49	51	70	65	41	41	48	59	67	68	60	59	58	40	35	..	..	..	53.3
	Minimum	28	36	48	45	45	36	29	31	27	11	18	27	40	32	27	38	32	10	18	21	27	31	36	28	28	30	26	21	..	..	..	29.5
Appleton City	Maximum	59	60	63	69	62	57	47	45	32	34	44	51	48	46	70	70	63	35	40	49	57	66	67	64	58	48	39	31	..	..	..	52.7
	Minimum	39	33	51	47	51	37	33	32	20	11	16	16	40	34	30	44	35	14	19	22	30	37	10	32	29	30	25	22	..	..	..	31.1
Centerview	Maximum	56	62	68	62	67	62	61	58	54	39	45	53	47	45	68	68	59	32	40	49	55	61	64	61	50	48	39	33	..	..	..	53.9
	Minimum	38	31	49	48	43	35	31	36	20	11	21	33	38	34	29	42	32	13	18	22	30	36	38	36	29	33	24	19	..	..	..	31.1
Clinton	Maximum	56	64	64	70	64	59	52	48	33	32	43	58	48	48	70	68	63	35	41	48	48	66	68	63	50	49	38	32	..	..	..	53.1
	Minimum	48	32	54	46	51	25	30	31	19	11	17	32	35	35	30	45	32	15	19	21	30	29	38	33	20	31	25	11	..	..	..	30.8
Harrisonville §§	Maximum	59	59	63	66	59	55	46	38	25	36	48	49	45	47	68	68	60	29	40	50	55	66	66	61	53	48	36	31	..	..	..	50.9
	Minimum	27	32	36	44	46	34	34	31	18	12	14	22	30	31	29	33	42	9	9	18	28	32	38	32	26	28	23	19	..	..	..	27.8
Lamar §§	Maximum	56	63	68	70	66	53	55	40	23	31	41	56	49	42	72	68	70	29	42	48	62	62	68	69	53	49	38	27	..	..	..	52.6
	Minimum	29	36	43	55	54	41	32	37	22	9	7	19	36	34	31	37	49	16	16	20	21	34	36	32	30	30	26	24	..	..	..	30.7
Lamonte	Maximum	57	62	58	68	60	53	48	41	30	36	46	53	41	47	69	72	59	31	42	48	60	67	66	65	51	43	31	32	..	..	..	51.5
	Minimum	37	32	46	44	47	31	28	27	18	9	18	30	38	33	28	39	30	13	18	32	28	35	38	30	29	25	23	20	..	..	..	29.6
Marshall	Maximum	54	57	58	..	59	71	67	45	29	35	45	51	..	49	67	65	58	34	41	46	60	67	68	68	57	..	38	34	..	..	..	^{c}53.0
	Minimum	35	40	40	..	50	31	29	29	19	13	13	13	..	35	27	40	34	13	14	20	28	38	30	32	28	..	23	18	..	..	..	^{c}27.8
Nevada	Maximum	59	61	62	70	61	58	50	46	31	30	41	51	49	48	71	69	65	40	48	60	62	65	67	67	55	48	40	30	..	..	..	51.1
	Minimum	39	35	54	48	53	38	32	34	20	5	18	30	31	33	31	39	36	19	22	21	33	34	47	42	30	34	26	23	..	..	..	32.6
Warsaw	Maximum	57	66	65	72	74	69	52	50	40	35	46	53	53	50	72	71	67	45	46	49	61	66	68	71	66	61	51	35	..	..	..	57.5
	Minimum	41	28	51	45	38	31	25	32	20	3	12	30	40	35	26	30	40	13	17	20	29	36	37	25	30	30	25	20	..	..	..	29.0
Northwest Plateau.																																	
Chillicothe §§	Maximum	53	53	62	57	48	53	51	32	29	35	49	47	36	41	65	64	45	29	41	52	57	61	63	62	56	49	33	32	..	..	..	48.4
	Minimum	27	28	31	39	41	31	29	26	16	10	10	21	29	32	25	29	34	8	9	17	22	38	32	31	28	26	20	21	..	..	..	25.4
Grant City	Maximum	50	50	60	51	42	48	47	43	28	34	47	41	38	33	51	56	51	27	37	46	53	60	59	56	53	43	32	30	..	..	..	45.2
	Minimum	37	37	37	36	37	30	31	20	12	10	20	25	31	24	10	30	20	1	11	20	27	39	22	32	27	26	19	21	..	..	..	25.1
Kansas City	Maximum	57	56	58	65	59	54	47	46	26	36	48	48	42	41	66	67	56	27	37	48	56	63	63	60	49	45	31	29	..	..	..	49.3
	Minimum	41	37	49	46	41	35	39	21	17	16	25	32	37	31	31	45	18	8	18	21	35	43	46	38	32	28	23	21	..	..	..	31.3
Kidder §§	Maximum	39	45	55	57	43	49	45	26	25	23	28	36	36	45	61	61	50	26	37	45	56	60	60	58	49	37	29	30	..	..	..	43.2
	Minimum	26	30	30	37	37	30	23	24	15	12	12	21	26	29	24	28	31	5	5	16	21	29	29	30	27	27	19	20	..	..	..	23.8
Lexington §§	Maximum	56	51	61	65	60	53	49	46	29	31	47	50	45	44	67	61	53	30	39	48	57	65	65	62	52	46	35	32	..	..	..	50.2
	Minimum	38	34	49	44	45	34	31	31	19	14	11	33	36	34	27	41	39	10	17	21	32	40	36	36	30	32	23	20	..	..	..	30.7
Maryville	Maximum	52	42	58	53	41	52	47	43	28	37	49	42	39	39	54	62	51	30	38	48	55	61	60	56	48	41	28	30	..	..	..	46.0
	Minimum	35	33	34	39	38	30	33	21	13	11	20	26	32	21	15	31	20	2	15	19	20	31	35	32	27	27	20	22	..	..	..	25.5
Oregon	Maximum	56	47	62	51	52	54	47	45	31	36	48	43	40	40	60	66	56	33	46	47	56	64	63	55	51	44	34	34	..	..	..	48.6
	Minimum	37	35	36	39	38	31	31	22	11	13	21	26	31	23	25	35	20	3	11	21	33	38	38	36	28	20	22	23	..	..	..	27.2
St. Joseph	Maximum	53	49	60	57	56	52	49	39	29	33	45	43	39	42	63	64	49	29	37	46	55	61	59	58	48	37	32	32	..	..	..	47.0
	Minimum	40	35	30	44	38	32	34	20	16	16	24	28	33	27	29	38	13	5	18	23	35	41	38	36	30	28	21	24	..	..	..	28.9
Trenton	Maximum	53	53	59	56	46	49	47	40	28	36	40	48	40	36	42	60	46	27	39	47	59	61	62	60	50	40	30	29	..	..	..	45.8
	Minimum	34	33	35	40	42	31	36	23	17	15	22	26	28	26	27	31	24	8	9	20	25	35	34	35	30	28	20	22	..	..	..	27.1

^{a}, ^{b}, ^{c}, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 4-26-27—890

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXXI. Columbia, Mo., March, 1927. No. 3.

GENERAL SUMMARY.

March, 1927, in Missouri, was warmer than normal in nearly all counties, making the third consecutive month with like conditions prevailing. The month also was notable for excessive rainfall, frequent thunderstorms, and much hail. March frequently is quite generous with its snows, but during this month snow fell on but one day, the first; the remainder of the month, and especially after the 4th, was rather too warm for snow.

Some farm work was done the first two weeks, such as sowing oats and plowing, but the remainder of the month was far too wet for any kind of outdoor work. The rainfall was excessive, being about double the normal in all sections, except the northwest. The rain storm from the 17th to the 20th was particularly heavy, and damaging in central and southern localities.

Wheat, except where damaged on lower lands by high water, made fine growth and color. Early sown oats, as well as all grasses and fruits responded well to the warmth and moisture. The main highways were damaged in places by highwater, and the dirt roads were almost impassable. The wet weather rather adversely affected general business.

TEMPERATURE.

The monthly mean temperature for the State, based upon the records of 68 stations, was 45.9°, 2.1° above normal and more than 6° warmer than last March. While all sections experienced weather warmer than the normal, the temperature excess was considerably less marked in the southeastern lowlands and most of the Ozark Plateau than in the western and northern parts. The first three days were the coldest, and the cold was general, the lowest temperatures, strange to say, occurring within a limited area in the Ozark region. Following the cold snap mild weather prevailed to the 19th and again the last three days. Summer-like weather prevailed from the 16th to the 19th.

PRECIPITATION.

The monthly precipitation, based upon the records of 103 stations, was 5.87 inches, and about 2.87 inches more than the 56 years' average. All parts of the State experienced excessive precipitation, and the clear periods were few, being limited to two or three days in each decade. Excessive amounts fell during a storm of the 17-20th, and again on the 31st, causing much damage by flooding bottom lands, traffic line washouts, and washing away top soil. The greatest monthly total was 11.24 inches, at Bolivar, and the greatest amount in 24 consecutive hours was 4.90 inches, at Amoret. General and heavy snow fell on the first; amounts ranged from 2 to 7 inches, the greatest depths being over the southwestern section.

HAIL, EXCESSIVE RAINS, AND FLOODS.

Hail, accompanying feature of thunderstorms and wind, occurred at Brunswick on the 5th, and 7th; Warrenton and Lexington, 7th; Lamonte, 10th and 31st; Louisiana, Conception, and Oregon 12th; Hollister, and Arcadia, 17th; Columbia, Lexington, Farmington, and Rolla, 18th; Bolivar, 20th, and Farmington, 23d; at this last named station the hail remained on the ground for three hours. The hailstones varied in size from peas to pecan nuts. The damage, owing to the season, was immaterial.

Severe thunderstorms, attended by wind and hail, advanced over the State from west to east during the the afternoon, evening and night of the 19th. The stones varred in size from playing marbles to walnuts with the hull on. There was little damage, except where mentioned further along. Hail fell first in the western part of the State at Appleton City, Amoret, Harrisonville, Lamonte, Centerview, Lexington, Oregon, Conception, and Bethany, and later at Columbia, Warrenton, and St. Louis. At Centerview hail fell six separate times during the 19th. At Lamonte, the "hail was uniform, round and solid ice and just the size of walnuts with the hull on. The ground was white with ice. Much damage was done to roofs and windows and very few houses escaped. Estimated damage about $3,000.

Koshkonong: Large hail stones fell on the 18th, breaking windows and damaging roofs. Damage about $200. Fruit was injured to some extent.

Bolivar: During a thunderstorm, with hail, on the 20th, 2.15 inches of rain fell in twenty-five minutes, causing Creek Branch which runs through the city to rise the highest within the memory of the oldest citizen. Houses were swept from their foundations. Estimated damage by flood $1,000. None by hail.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	30.07	81	61	222	60	7,027	9.4	40	sw.	18
Hannibal	30.07	78	..	...	..	7,173	9.6	36	e.	19
Kansas City	30.04	76	64	240	65	8,420	11.3	38	ne.	19
St. Joseph	30.03	80	62	224	60	7,355	9.9	32	e.	31
St. Louis	30.06	78	65	162	44	10,370	13.9	56	sw.	5
Springfield	30.04	82	59	244	66	9,540	12.8	39	w.	5
Cairo, Ill	30.10	79	63	...	..	7,601	10.2	60	sw.	31
Keokuk, Iowa	30.07	81	59	206	55	6,317	8.5	35	s.	12

COMPARATIVE DATA FOR MARCH.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	38.5	−4.8	90	1	4.02	+1.11	....	....	10	....	....	....
1889	44.3	+1.0	84	13	1.98	−0.93	....	....	5	....	....	....
1890	37.3	−6.0	76	−11	2.61	−0.30	....	5.7	8	....	....	....
1891	36.6	−6.7	78	−11	3.01	+0.10	....	7.1	10	....	....	....
1892	38.9	−4.4	87	5	3.11	+0.20	....	....	8	8	10	13
1893	40.5	−2.8	86	1	2.86	−0.05	2.15	3.2	7	11	10	10
1894	47.7	+4.4	89	2	2.93	+0.02	3.20	0.2	6	15	9	7
1895	42.4	−0.9	98	0	2.14	−0.77	3.00	4 4	9	14	7	10
1896	39.2	−3.9	82	2	2.05	−0.86	4.47	5.2	8	11	9	11
1897	44.2	+0.9	93	−5	6.07	+3.16	4.10	1.0	2	9	9	13
1898	44.7	+1.4	83	9	7.09	+4.18	3.87	0.6	11	11	7	13
1899	37.4	−4.1	78	−8	2.93	+0.02	4.30	8.9	16	9	11	11
1900	40.4	−1.9	88	−4	1.48	−1.43	3.41	0.2	6	15	9	7
1901	42.7	−0.6	85	−1	3.74	+0.83	3.21	1.8	8	11	8	12
1902	45.3	+2.0	85	1	3.49	+0.58	5.60	0.8	9	10	10	11
1903	46.8	+3.5	81	9	3.35	+0.44	6.19	1.1	8	13	7	11
1904	44.8	+1.5	87	8	4.14	+1.23	7.50	1.2	9	11	9	11
1905	50.3	+7.0	88	10	2.99	+0.08	2.67	T.	8	11	8	12
1906	34.6	−8.7	75	−5	3.93	+1.02	3.00	8.6	11	6	7	18
1907	53.9	+10.6	95	16	2.82	−0.09	3.08	1.0	7	14	7	10
1908	50.1	+6.8	89	14	2.58	−0.33	2.55	1.0	7	14	7	10
1909	44.5	+1.2	81	9	3.07	+0.16	3 30	0.6	6	13	9	9
1910	55.8	+12.5	96	15	0.66	−2.25	2.25	0.1	2	20	7	4
1911	46.8	+3.5	91	5	1.85	−1.06	2.00	1.4	6	16	8	7
1912	35.2	−8.1	89	−4	4.62	+1.71	2.85	16.5	11	12	6	13
1913	40.6	−3.7	84	−12	4.36	+1.31	7.97	5.0	9	12	8	11
1914	43.2	−1.3	87	−2	2.75	−0.41	3.01	4.7	8	13	7	11
1915	36.4	−8.1	70	6	1.50	−1.74	1.85	7.9	6	7	8	16
1916	47.0	+1.3	95	−2	2.53	−0.65	4.25	3.1	7	14	8	9
1917	45.2	+1.7	86	−7	2.91	−0.42	4.08	1.5	7	15	7	9
1918	50.9	+7.8	95	8	0.94	−2.05	2.25	0.1	4	18	6	7
1919	46.3	+2.9	90	−2	2.40	−0.69	5.37	0.7	6	15	8	8
1920	44.6	+1.4	86	−6	5.01	+2.09	6.00	1.4	8	15	6	10
1921	51.9	+8.5	90	11	4.69	+1.68	2.88	0.5	10	13	9	9
1922	45.6	+1.4	80	3	6.46	+3.38	4.00	2.2	12	11	6	14
1923	40.4	−3.1	83	−11	4.12	+1.00	2.84	2.3	8	14	6	11
1924	38.4	−5.4	80	8	2.55	−0.45	2.38	9.4	8	8	8	15
1925	47.7	+3.9	86	−5	1.95	−1.05	2.55	0.8	5	17	8	6
1926	39.6	−4.2	83	8	2.89	−0.11	1.77	7.0	8	13	6	12
1927	45.9	+2.1	80	0	5.87	+2.87	4.90	3.7	11	12	8	11

Climatological Data for March, 1927

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	47	46.2	+ 4.3	78	16	13	2†	35	3.66	+1.10	1.04	3.0	9	13	4	14	se.	O. K. Benecke
Clifton Hill	Randolph	731	27	44.4	+ 2.2	76	16	8	2	35	4.09	+1.44	1.00	2.9	9	10	10	11	......	Dr. A. J. Bradsher
Columbia	Boone	748	36	46.0	+ 3.4	76	16	14	2	30	7.65	+4.62	2.43	4.2	12	11	5	15	se.	U. S. Weather Bureau
Downing	Schuyler	876	5	43.8	......	74	16	10	2	37	1.69	−0.67	0.44	2.5	9	12	8	11	s.	E. E. St. Clair
Fayette	Howard	661	46	43.5	+ 1.4	78	16	9	3	46	7.20	+4.39	2.00	4.0	8	..	..	..	......	J. D. Settle
Fulton	Callaway	818	38	45.4	+ 1.0	78	17	12	3	38	7.25	+4.21	2.80	5.0	11	10	13	8	......	Chamber of Commerce
Gorin	Scotland	700	39	....	......	..	..	..	..	..	3.13	+0.67	0.79	0.8	9	7	10	14	se.	J. W. Pulliam
Hannibal	Marion	534	34	45.4	+ 4.4	75	16	17	3	29	6.87	+4.11	2.62	1.9	16	11	6	14	s.	U. S. Weather Bureau
Jefferson City	Cole	557	38	47.1	+ 3.9	77	16	13	2	36	8.24	+5.42	3.94	5.5	11	17	2	12	n.	Miss Emma Swift
Kirksville	Adair	969	37	43.1	+ 3.6	74	16	8	2	37	2.09	−0.68	0.88	2.5	5	17	3	11	nw.	Prof. J. S. Stokes
Louisiana	Pike	469	32	47.0	+ 3.7	75	16	15	3	34	7.05	+4.15	2.25	2.5	9	19	1	11	e.	J. T. Farrell
Macon	Macon	875	27	44.2	+ 1.6	76	16	10	2	35	2.35	−0.34	0.82	3.6	7	14	7	10	sw.	W. C. Brown
Mexico	Audrain	800	37	45.8	+ 3.8	78	16	12	2	38	6.48	+3.69	1.65	1.0	10	19	0	12	se.	Mrs. Abbie Snoddy
St. Charles	St. Charles	456	38	47.4	+ 3.0	75	16	16	2†	31	5.77	+2.68	2.38	3.0	9	8	11	12	s.	L. C. Saeger
St. Louis (1)	St. Louis City	568	52	47.9	+ 3.7	69	19	22	2	28	7.67	+4.24	2 99	3.0	12	9	7	15	s.	U. S. Weather Bureau
St. Louis (2)	do	578	14	47.0	+ 3.4	74	16	22	2	27	7.47	+4.52	3.51	2.0	10	9	7	15	se.	St. Louis University
Shelbina	Shelby	779	33	....	......	..	..	..	..	..	3.73	+0.88	1.29	2.8	11	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	28	45.2	+ 2.8	75	16	10	2	38	3.81	+0.90	0.75	2.0	10	14	8	9	s.	Frank Hall
Unionville	Putnam	1,062	33	43.0	+ 4.4	72	15†	6	2	36	2.85	+0.46	0.90	4.0	6	10	10	11	s.	Geo. W. Davis
Warrenton	Warren	816	44	46.6	+ 4.4	76	16	11	2	33	7.75	+4.38	3.29	2.0	12	9	11	11	se.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	614	54	44.4	+ 5.5	73	16	19	2	29	3.48	+1.11	1.30	0.9	10	8	11	12	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	45.4	+ 3.4	78	16†	6	2	46	5.25	+2.44	3.94	2.8	10	12	7	12	se.	
Southeast Lowlands.																				
Benton	Scott	340	1	....	......	..	..	..	..	..	9.17	......	3.08	3.5	13	..	..	..	......	E. R. Tirmenstein
Campbell	Dunklin	314	1	49.9	......	78	19	21	2†	35	7.66	......	2.05	3.2	12	14	9	8	s	Jeff. King
Caruthersville††	Pemiscot	265	30	52.6	+ 1.4	78	19	24	2	28	8.21	+4.21	2.35	0.4	14	11	6	14	ne.	John T. Markey
Doniphan	Ripley	344	22	48.7	− 0.7	73	19	18	3	37	6.62	+3.03	1.30	1.5	10	15	7	9	se.	W.W. Martin
Jackson	Cape Girardeau	428	35	48.3	+ 1 1	76	19	17	3†	37	8.47	+4.13	2.30	5.2	12	7	4	20	n.	John G. Putz
Marble Hill	Bollinger	470	31	48.6	+ 1.2	74	16	17	3	42	7.43	+3.25	2.20	6.0	8	14	6	11	n.	R.A. DeWitt
Morehouse	New Madrid	289	25	....	......	..	..	..	..	..	7.80	+3.30	1.65	3.5	12	16	7	8	s.	John A. Spence
Parma	New Madrid	281	5	....	......	..	..	..	..	..	7.56	......	2.40	2.5	11	..	..	..	......	H. W. Kendall
Patton	Bollinger	605	17	....	......	..	..	..	..	..	8.29	+4.23	2.28	5.0	13	..	..	..	......	S. P. Presnell
Poplar Bluff	Butler	339	22	49.6	+ 0.8	76	16	17	4	41	7.30	+2.78	1.45	2.5	13	17	4	10	s.	J. H. Wolpers
Sikeston	Scott	318	21	47.0	− 1.4	72	16	20	2†	31	5.63	+1.13	1.70	4.0	12	11	7	12	sw.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	358	51	50.0	+ 2.8	72	16	23	2	28	8.07	+4.05	2.83	3.3	15	7	8	16	se.	U. S. Weather Bureau
Section means and	extremes	....	..	48.9	+ 0.6	78	19	17	3†	42	7.64	+3.24	3.08	3.6	12	13	6	12	s.	
Ozark Plateau.																				
Arcadia	Iron	926	45	45.4	+ 0.6	73	16†	13	4	44	4.97	+0.90	1.56	3.5	11	25	0	6	se.	Arcadia College
Aurora	Lawrence	1,370	36	47.4	+ 1.8	79	19	10	3	36	6.11	+2.43	1.15	5.0	9	9	13	9	se.	W. T. Troughton
Birchtree (near	Shannon	1,000	31	48.6	+ 1.2	76	19	15	3	36	5.74	+1.49	1.12	1.0	10	15	5	11	se.	V. H. Kirkendall
Bolivar	Polk	1,071	32	49.7[d]	+ 3.6	76	16	16	2	41	11.24	+8.20	3.17	6.0	9	7	15	9	s.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	27	....	......	..	..	..	..	..	4.26	+0.91	....	4.0	..	..	..	..	......	H. E. Dean
Eldon	Miller	934	30	46.0	+ 2.5	77	15	12	1	40	9.34	+6.51	3.34	1.0	9	11	13	7	sw.	E. H. Shepherd
Farmington	St. Francois	918	15	47.2	+ 0.3	78	19	15	4	37	6.30	+3.03	2.02	4.0	11	11	12	8	se.	Robert Forsyth
Gano ‡‡	Dent	1,250	22	47.8	+ 0.9	74	16†	10	2	34	7.45	+4.15	2.38	8.2	11	12	9	10	se.	A. C. Leach
Goodland	Iron	1,000	32	47.1	+ 2.2	75	16†	7	3	42	5.78	+1.53	1.80	5.0	8	13	6	12	s.	F. M. Adams
Greenville	Wayne	381	4	46.4[d]	......	69	16†	13	3	35	9.58	......	2.25	4.0	10	15	3	13	s.	Wm. P. Owens
Hailey	Barry	1,350	1	....	......	..	..	..	..	..	4.26	......	0.90	6.0	10	19	6	6	sw.	A. W. Madison
Hollister	Taney	735	39	44.4	− 4.3	78	17	0	3	58	4.98	+1.75	1.10	7.0	8	15	5	11	se.	Mrs. W. P. Chapman
Koshkonong	Oregon	958	25	49.8	+ 0.2	74	18	18	2	34	4.32	+0.51	0.78	3.0	10	12	8	11	se.	R. M. Hitt
Lebanon	Laclede	1,265	38	45.0	− 0.4	76	16†	2	3	46	7.90	+4.45	2.00	5.0	12	9	11	11	se.	Mrs. Lon Mulcare
Lockwood	Dade	1,078	20	44.6	− 3.3	65	16†	10	3	27	8.12	+5.66	3.51	6.0	9	18	3	10	sw.	C. S. Crow
Mountain Grove(near)	Wright	1,463	25	45.7	− 0.3	72	17	7	3	34	6.15	+1.81	1.55	4.0	12	15	6	10	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	48.9	+ 0.7	78	19	5	3	46	5.85	+2.38	1.10	7.0	10	13	12	6	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	26	48.2	+ 3.2	76	16	10	2	35	7.06	+3.47	2 17	2.0	10	12	11	8	s.	Prof. Elmo G. Harris
Seligman	Barry	1,542	24	48.5[b]	+ 2.3	74	15†	8	3	44	4.28	+0.34	0.95	6.0	10	11[b]	9[b]	9[b]	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,642	20	46.6	+ 1.4	73	16	2	3	45	6.93	+2.87	2.23	4.0	12	12	11	8	se.	Ira H. Hailey
Springfield	Greene	1,324	38	46.8	+ 1.6	74	19	15	2	32	7.46	+3.39	3 47	6.5	14	20	5	6	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	47.0	+ 0.8	79	19	0	3	58	6.62	+3.02	3.51	4.9	10	14	8	9	se.	
Southwest Plain.																				
Amoret	Bates	831	19	45.6	+ 1.7	73	10	10	3	38	9.56	+7.06	4.90	4.0	9	16	7	8	sw.	Andrew Rood
Appleton City	St. Clair	853	32	47.0	+ 2.4	74	15†	14	3	34	6.79	+3.72	2.50	3.5	13	8	17	6	se.	W. G. Bigelow
Centerview	Johnson	872	39	46.0	+ 2.4	73	15	13	3	36	10.69	+8.15	4.40	2.0	11	11	11	9	sw.	....
Clinton	Henry	765	33	47.8	+ 3.5	76	16	14	3	34	8.39	+5.53	2.70	4.0	10	11	12	8	se.	A. E. Derwent, M. D.
Harrisonville	Cass	904	49	43.2	+ 2.3	74	15	11	3	41	6.16	+3.47	1.68	6.5	6	11	1	19	sw.	John H. Patterson
Lamar	Barton	980	39	45 9	− 0.3	75	15†	12	3†	43	6.30	+3.40	2.05	6.0	11	14	8	9	sw.	Jesse A. Mann
Lamonte	Pettis	867	25	45.2	+ 1.5	78	16	9	3	39	10.04	+7.44	4.05	10.0	8	10	12	9	sw.	J. E. Wheeler
Marshall	Saline	779	37	45.4[b]	+ 2.9	80	16	15	3	43	6.39	+3.68	2.05	3.0	8	9	12	9	nw.	Dr. W. H. Black
Nevada	Vernon	862	33	47.2	+ 2.9	75	15	14	3	38	3.70	+0.71	1.73	4.5	7	15	8	8	sw.	George A. Kaupp
Warsaw ††	Benton	687	26	48.8	+ 1.9	78	16	12	3	40	10.75	+7.52	4.50	3.5	8	22	5	4	w.	Everett Martin
Section means and	extremes	.....	..	46.2	+ 2.1	80	16	9	3	43	7.88	+5.07	4.90	4.7	9	13	9	9	sw.	
Northwest Plateau.																				
Bethany	Harrison	916	34	43.0	+ 3.0	73	15	5	3	37	3.32	+1.02	0.95	3.0	7	8	6	17	sw.	M. H. Moulton
Chillicothe	Livingston	779	17	42.6	+ 1.0	75	15	8	3	43	1.74	−1.04	0.70	2.5	9	13	9	9	se.	Wm. J. Olenhouse
Conception	Nodaway	980	37	42.2	+ 2.7	74	15	12	2	34	2.61	+0.86	0.82	6.0	6	9	9	13	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	6	43.2[c]	......	73	15	6	3	36	2.02	−0.73	0.86	3.8	9	14	5	12	n.	Fred L Stiff
Grant City	Worth	1,134	22	41.4	+ 0.1	72	15	13	2	32	3.10	+0.99	1.30	3.1	5	12	10	9	se.	W. P. Spillman
Kansas City	Jackson	963	37	45.5	+ 2.8	74	15	20	3	27	4.60	+1.78	1.82	3.1	11	10	9	12	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	33	40.2	− 1.0	72	15	10	3	42	2.02	−0.28	0.52	4.5	10	11	7	13	se.	Linn Terry
King City	Gentry	1,095	1	....	......	..	..	..	..	..	2.62	......	0.96	2.0	6	..	..	..	......	D. B. Oliver
Lexington	Lafayette	688	41	45.4	+ 2.5	74	16	14	3	33	4.54	+2.17	1.23	2.5	9	13	8	10	s.	Edwin G. Loomis
Maryville	Nodaway	1,169	36	42.4	+ 5.2	73	15	14	2†	36	3.69	+1.81	1.75	2.5	5	14	0	17	n.	J. R. Brink
Oregon	Holt	1,048	70	43.4	+ 4.1	74	15	14	3	33	4.19	+2.17	1.23	4.0	9	13	6	12	sw.	Mina Wright
St. Joseph	Buchanan	967	18	43.9	+ 1.7	74	15	14	3	32	3.96	+1.55	2.33	2.9	7	12	6	13	se.	U. S. Weather Bureau
Tarkio	Atchison	916	23	40.6	0.0	72	15	12	2	39	2.35	+0.65	0.95	3.0	6	9	6	16	nw.	Albert Volker
Trenton	Grundy	822	30	43.0	+ 1.8	74	15	13	3	34	3.54	+1.10	1.94	T.	6	11	8	12	s.	W. H. Estes
Section means and	extremes	.....	..	42.9	+ 1.7	75	15	5	3	42	3.12	+0.85	2.33	3.1	13	11	8	12	se.	
State means and	extremes	.....	..	45.9	+ 2.1	80	16	0	3	58	5.87	+2.87	4.90	3.7	11	12	8	11	se.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b], represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5. ‡ Indicates plus.

Daily Precipitation for March, 1927

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	.12	.08			.03		.56				.03	.26					.14		1.85	1.96	.02								T.		1.26	6.31
Brunswick‖	Grand	.09				.16	.10	.57	.04				.68							.38	1.04											.60	3.66
Clifton Hill	Chariton	.20				.15		.42				.67							.03	.74	.65										.23	1.00	4.09
Columbia***	Missouri	.29			.04	.15		.61				.41	T.				.48		1.02	2.08	.04	T.		T.		T.				.03	.53	1.97	7.65
Downing	Mississippi	.17				.26		.04				.12						.04		.22	.44	.03										.37	1.69
Fayette‖|	Missouri	.40			.09			.55				1.06						.27		1.39	1.44											2.00	7.20
Fulton	....do	.26	.07			.09		.56					.69					.73		2.80	.85	.06					T			.06		1.08	7.25
Gorin	Mississippi	.06				.31		.02				.79					.18			.38	.61	.01										.77	3.13
Hannibal***	....do	.10	T.			.21	.02	.36				1.30	.02				.37	.03	.38	2.62	.09	T.		.02		.02				.01	.01	1.31	6.87
Hermann‖	Missouri	T.	.16			.04	.05	.52					.70	.02				.62		2.55	1.43	.22					.08			.07	1.30		7.76
Jefferson City‖	....do	.06	.02					.65				.03	.52				.45			3.94	1.20	.25								.12		1.00	8.24
Kirksville	Mississippi	.25				.32						.88					.08															.56	2.09
Louisiana	....do	.20	T.					.80				.65	.70							2.25	1.80	T.		.12		.02						.51	7.05
Macon ‖	Chariton	.18	.13					.41					.50							.26	.82											.05	2.35
Mexico ‖	Mississippi	.10	.18			.25		.50					.95					.60		1.65	1.55	T.		T.		T				.08		.62	6.48
Milan ‖	Grand	.20	T.			.30	.22	.15				.10	.85				.10				.62	.10		T.								.05	2.69
Pacific‖	Meramec	.20	.22			.04		.35					.55						.21	1.43	.61	.01	.09		T.		T.			.07		1.22	5.00
St. Charles	Missouri	.30				.40		.34				.25	.28						.08	2.38	.60	T.		T.		T.						1.14	5.77
St Louis (1)***	Mississippi	.30				.03		.25				.52	.01					.41	T.	1.55	.82	T.		.08		.01				T.	.71	2 98	7.67
St. Louis (2)*	....do	.20				.01		.28				.51	T.					.25		1.36	.54	T.		.05		T.				T	.76	3.51	7 47
Shelbina |||	....do	.08	.12			.33	.36	.50					.63					.08		.26	1.29									.03	T.	.05	3.73
Steffenville	....do	.20	T.			.50		.33				.75	.03					.05		.30	.55	.65										.45	3.81
Union‖	Meramec	.07	.08			.04		.28					.82					.02	.10	1.82	.33	.03								.08		1.12	4.79
Unionville ‖	Chariton	.40				.35						.75						T.		.30	.60	T.										.45	2.85
Warrenton	Mississippi	.15				.17		.66				.40	.54	.02				.17		3.29	.97			T.		.05				.03	T.	1.30	7.75
Keokuk, Ia.***	....do	.06				.29	T.	.11			T.	1.30					.06		.02	.70	.02	T.	T.	.01		T.						.91	3.48
Southeast Lowlands																																	
Benton	Mississippi	.35	.01					.24				.01	1.23						3.08	.12	.64	.24		.01	.26					.26		2.72	9.17
Campbell‖	St. Francis	.32						.36				.03	2.04					.13	2.05	.40	.44	.20			.38					.11		1.20	7.66
Cape Girardeau‖	Mississippi	.02	.40				.05	.35	.22				.53	.56				.43	2.26	.02	.30	.52			.32					.33		1.48	7.79
Caruthersville ‖	.... do	.04				.05		.90	.03				2.35					.20	2.05	.11	.70	.28		.25	.20					.17		.88	8.21
Dexter‖	St. Francis	.05	.13				.12	.19	.18			.03	1.69	T.				.62	1.48		.41	.52		T.	.13					.23		1.24	7.02
Doniphan	Black	.15			.70			.20				1.30						1.10	1.02	.32	.80									.35		.68	6.62
Jackson	Mississippi	.52						.39				.45	1.35					70	1.35	.17	.62	.10			.12					.40		2.30	8.47
Marble Hill	Mississippi	.80										.50	1.80							.60	.88	.20								.45		2.20	7.43
Morehouse	....do	.29					.08	.30					1.35					.40	1.65	.73	.69	.30			.14					.23		1.64	7.80
New Madrid‖	....do	.12	.30				.04	.25	.35				1.10	.75	.03			.11	2.20		.20	1.30			.40					.11	.02	.80	8.08
Parma	St. Francis	.25						.50					1.63					.19	2.40	.10	.93	.24			.20					.12		1 00	7.56
Patton	Mississippi	.05						.50				1.28	.94	.01				.31	1.14	.10	1.33	.03			.02					.30		2.28	8.29
Poplar Bluff ‖	Black	.25			T.	T.	.32					1.30	.30				.78	1.45	.33	.33	.22			.03					.35		.95	.69	7.30
Sikeston‖	Mississippi	.10	.30				T.	.15	.27					.46					1.70	.02	.64	.58			.21					.22		.98	5.63
Cairo, Ill.***	.. . do	.41				.03		.48				.06	.92					.56	1.41	.22	.97	.01		.02	.02					.13	.04	2.79	8.07
Ozark Plateau.																																	
Arcadia ‖	St. Francis	.08	.27					.27	T.				.42	.06				.22	.69	.42	.40									.58		1.56	4.97
Aurora	Neosho	1.15						.97				.29						.43		.18	1.00									.75	.37	.97	6.11
Birchtree (near)	Black	.30						.69				.72	.37					.10	1.10		.57			.09						.68		1.12	5.74
Bolivar	Osage	2.00						.80				.25						.75		1.70	3.17			.08						.49		2.00	11.24
Caplinger Mills	Osage	.59				.07		.34				.27						.66		2.43	.14			T.						.17		3.04	7.71
Dean	Neosho	.40						1.09				.25					.28	.53												.97	.04	.70	4.26
Eldon|||	Missouri	T.	.10			.15	.16					.48					.69		3.34	1.26											1.27	1.89	9.34
Farmington	St. Francis	.31						.30				.44	.28					.18	1.37	.54	.35			.23						.28		2.02	6.30
Fredericktown|||	.... do		.95					.05					.96					.30	1.02	.15	.27	.22								.32	1.47		5.71
Galena|||	White	.92					.35						.65					.14	.25												.50	.20	3.01
Gano	Meramec	.96						.76				.33	.11					.12	.77	.45	.90			.12						.55		2.38	7.45
Goodland	Black	.75						.18				.68	.10						1.10		.75									.42		1.80	5.78
Greenville	St. Francis	.38						.45				* *	2.10					.40	2.20	.20	.92									.68		2.25	9.58
Hailey	White	.60						.50				.50						.55		.03	.90	.08								.55	.10	.45	4.26
Hollister	.... do	.68						.70				.40						.50	.60	.60											1.10	.40	4.98
Jerome ‖	Gasconade																																....
Koshkonong	Black	.30						.62				.78		.60				.35	.74		.22				.25					.32		.14	4.32
Lebanon ‖	Osage	.50				.20		.80				T.	.60					.70		.80	2.00		.25	.05	.15		T.			.45		1.40	7.90
Lockwood	....do	.55						.82		.28								.37		.83	.71									.60	.45	3.51	8.12
Mountain Grove‖	White	.45						.53				.03	.62					.07	1.18	.03	.72			.05	.02					.90	T.	1.55	6.15
Neosho	Neosho	.90						1.04				.25					T.	.43		.12	1.10		T.	.09		T.			T.	1.03	.02	.87	5.85
Owensville ‖	Gasconade	.05	.07					.30					.50							2.00	.63	.10								.18		1.75	5.58
Rolla ‖	Meramec	.15				T.	.73					.35					.06	.22	2.17	.43									.35		1.23	1.37	7.06
Seligman	Neosho	.60						.48				.28						.95	.21	.08	.70			.02						.68		.28	4.28
Seymour (near)	White	.36						1.21	.10			.44	.10					.62	.32	.05	.62			T.		T.				.77	.11	2.23	6.93
Springfield***	....do	.58					.15	.51				.27					.29	.01	.41	.62	.76	T	.01	T.		T.			.10	.28	.12	3.35	7.46
Steelville‖	Meramec	.11	.23					.65					.37					.03	.60	1.23	.50	.05		.05	.04	.03				.33		1.52	5.74
Stover ‖	Missouri	.22	05			.08		.43			.02			.53				.42		3.02	1.06				.04							1.42	7.29
Tuscumbia ‖	Osage	.18	T.			.09		.36					.25					.81		3.30	2.16	.07			.05					.19		1.91	9.37
Willow Sprgs.||| (near)	White	.22	.12					.52					.80					.15	1.40	.14	.45									.87		.80	5.47
Southwest Plain.																																	
Amoret	Osage	.40				.07		.85				.50								4.90	.12									.10	.32	2.30	9.56
Appleton City	....do	.36				.06		.31				.45	.10				T.	.10	.06	2.50	.43	T.	.01	T.					T.	.04	.35	2.02	6.79
Centerview	Missouri	.63				1.00		.43				.93	.63				.03			4.40	.35				T.	T.			T.	.10	.11	2.08	10.69
Clinton	Osage	.35	T			.05		1.05				.50					T.	.02		2.70	.80									.07	.75	2.10	8.39
Concordia|||	Missouri					.28						.74								1.44	1.76										1.60	1.33	7.15
Harrisonville‖	Osage	1.01						.62					.36							1.01	1.68											1.48	6.16
Joplin*	Neosho	.48				T.	.10	.80				.37					.36		.12	.91	.12		T.	T.		T.			.39	.05	.39	2.86	6.95
Lamar ‖	....do	.40	.05					.60					.22					.15		2.05	1.05	.10		.02						.48		1.18	6.30
Lamonte	Missouri	.40						.56				1.03						.01		4.05	.90										.56	2.53	10.04
Marshall	.... do	.30				.15		.72				.70							T.	1.28	.84	T.				T.				T.	.35	2.05	6.39
Nevada	Osage	.38						.15					T.				T.	.20		1.73	.45		T.	T.					T.	.34	T.	.45	3.70
Osceola|||	....do	.75						.40					.33					.16		2.45	.98									.20		.88	6.15
Warsaw ‖	....do	.35					.75					.40						.65		4.50	.50										.85	2.75	10.75
Waverly ‖	Missouri	.16	.07			.09		.47				T.	1.04					.05		.49	.94	T.	T.		.02					T.		1.26	4.59
Northwest Plateau.																																	
Albany|||	Grand			.13			.45						.05								.05											1.50	2.18
Bethany	....do	.30				.32		.07			T.	.68								.75	.25			T.	T.	T.				T.		.95	3.32
Chillicothe|||	....do	.23	T.			.09	.16	.08				.03	.70					T.		T.	.29	T.		T.	.06					T.		.10	1.74
Conception	Missouri	.30				.25						.67	.27						T.	.30				T.						T.	T.	.82	2.61
Edgerton	....do	.38				.11		.06				32							T.	.21	.01			.01						.06	T.	.86	2.02
Gallatin ‖	Grand	.50	T.			T.	.20					T.	.50								.50											T.	1.70
Grant City	.... do	.24				.84						.67	T.				T.		T.	.05	T.			T.								1.30	3.10
Kansas City***	Missouri	.21			T.	.15	.15	.38				.57					T.		.32	.69	.01	T.		.01					T.		.60	1.51	4.60
Kidder ‖	Grand	.25	.20			.15	.19	.02				.11	.38							T.	.52				.03					T.		.17	2.02
King City	Missouri	.23				.26						.55								.60											.02	.96	2.62
Lexington ‖	....do	.48						.69				.05	.61				.06		.02	.70	.70											1.23	4.54
Maryville ‖	....do	.20				.38							1.31					T.		.05												1.75	3.69
Oregon	....do	.25				.26						1.08	.35						T.	.90				.03						.04	.05	1.23	4.19
St. Joseph***	....do	.26			T.	.30						.60					T.		T.	.47	T.			T.					.06	T.	.16	2.51	4.36
Tarkio	....do	.22				.36						.59							.11	.12												.95	2.35
Trenton	Grand	T.				.18		.12				.63					T.			.64				.03						T.		1.94	3.54

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for March, 1927

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	35	32	45	55	55	61	59	61	62	72	70	61	50	66	76	78	71	69	61	39	37	54	52	50	64	55	50	58	58	67	58	57.5
	Minimum	29	13	13	25	38	33	45	30	33	46	50	50	31	31	41	48	35	34	38	33	28	25	33	34	35	34	29	30	44	49	49	35.0
Columbia	Maximum	32	31	44	54	62	61	58	58	62	72	57	68	45	63	74	76	59	68	54	41	37	52	53	47	63	51	48	57	57	63	55	55.5
	Minimum	20	14	14	28	37	40	41	31	37	47	50	44	40	34	45	51	39	40	41	33	29	27	36	32	38	34	32	34	43	50	52	36.5
Fayette§§	Maximum	34	34	36	55	60	61	46	61	64	73	56	66	54	66	76	78	63	69	46	46	39	54	54	48	64	53	49	60	57	65	55	56.2
	Minimum	20	10	9	12	25	36	39	24	22	36	47	48	38	29	30	45	34	30	38	31	26	22	29	31	33	32	29	27	32	43	48	30.8
Hannibal	Maximum	33	36	43	51	55	53	56	56	57	70	55	64	44	62	72	75	58	66	52	40	36	48	53	48	55	47	46	54	56	65	55	53.6
	Minimum	24	18	17	23	36	40	43	36	38	45	47	43	41	42	43	51	40	37	40	35	30	28	39	34	40	35	30	34	45	50	48	37.2
Jefferson City §§	Maximum	36	31	45	54	65	63	58	62	64	71	58	69	50	67	76	77	65	74	51	40	37	49	57	50	65	52	52	60	58	66	57	57.4
	Minimum	27	13	15	23	35	42	45	33	35	41	49	50	40	33	40	50	40	42	50	36	28	27	35	33	35	34	33	36	42	48	52	36.8
Kirksville	Maximum	32	34	44	50	48	53	57	59	59	65	64	64	42	64	67	74	70	63	55	35	35	49	51	46	60	52	48	57	55	65	58	54.0
	Minimum	24	8	15	24	35	34	41	31	32	40	41	42	36	31	34	37	33	36	33	30	25	24	31	32	34	32	25	32	42	41	41	32.2
Louisiana	Maximum	36	36	45	52	55	56	56	55	58	70	68	65	62	64	73	75	73	68	65	52	40	55	54	50	56	56	55	55	58	65	65	57.8
	Minimum	27	20	15	18	36	42	44	34	29	42	46	50	42	44	40	46	42	34	42	38	30	28	38	34	34	34	27	29	43	46	46	36.1
Macon§§	Maximum	35	35	45	53	52	61	60	60	61	72	55	65	49	64	75	76	63	67	44	37	36	52	54	46	62	51	50	59	57	68	52	55.4
	Minimum	25	10	14	23	32	32	39	28	31	39	47	48	37	33	40	45	34	36	40	32	23	24	31	30	35	33	27	31	41	42	45	33.1
Mexico§§	Maximum	34	35	48	55	60	61	58	60	62	73	51	65	44	65	75	78	60	69	62	52	36	53	51	46	62	52	48	57	57	65	54	56.4
	Minimum	25	12	15	25	36	41	44	33	34	41	46	48	38	35	37	49	39	37	45	35	31	27	30	34	35	28	30	33	36	44	50	35.3
St. Louis(1)	Maximum	34	35	45	51	60	60	58	57	56	68	54	60	49	59	69	75	63	68	69	61	39	46	51	49	57	50	48	56	57	64	55	55.6
	Minimum	25	22	26	30	36	43	46	39	41	42	45	49	43	43	41	49	48	50	55	39	31	35	36	36	39	37	34	41	44	48	53	40.2
Unionville	Maximum	35	34	40	50	46	57	54	57	60	63	60	62	47	60	72	72	67	72	66	35	35	46	47	46	56	50	48	57	56	68	60	54.1
	Minimum	25	6	12	22	35	33	40	28	30	40	42	46	35	33	38	45	32	36	33	28	25	24	28	30	35	30	25	34	42	35	42	31.9
Warrenton	Maximum	32	32	43	52	60	61	57	58	61	71	67	61	62	62	72	76	73	68	63	50	38	51	53	50	58	57	49	56	57	65	65	57.4
	Minimum	26	11	16	22	34	41	44	34	35	41	45	49	40	36	39	44	41	43	45	37	28	27	38	32	32	33	29	34	41	46	51	35.9
Southeast Lowlands.																																	
Campbell	Maximum	33	37	42	53	59	66	60	58	61	66	60	60	58	65	70	74	74	72	78	71	49	49	59	55	62	61	60	60	55	67	69	60.1
	Minimum	29	21	21	21	33	39	47	35	44	39	43	54	38	33	36	39	55	57	56	46	35	34	40	36	40	43	35	36	42	47	56	39.7
Caruthersville	Maximum	35	37	45	54	59	65	61	59	62	66	65	60	59	65	72	77	76	70	78	73	55	49	57	62	66	61	57	61	58	65	73	61.4
	Minimum	32	24	25	27	40	45	52	42	43	45	41	45	43	40	44	50	56	55	58	54	38	38	39	39	42	50	42	49	44	50	62	43.7
Doniphan	Maximum	35	36	52	52	62	67	62	63	65	67	64	61	58	66	70	68	70	72	73	68	44	48	52	60	64	60	60	60	63	65	65	60.4
	Minimum	30	20	18	20	37	34	32	35	36	38	42	52	35	30	33	34	55	57	55	42	33	30	40	33	35	42	33	34	38	42	52	37.0
Jackson	Maximum	40	36	45	53	57	59	64	62	61	67	60	60	62	65	70	75	69	65	76	70	48	51	57	54	61	62	58	60	59	65	63	59.8
	Minimum	28	18	17	17	33	37	45	30	39	39	42	52	27	31	33	40	53	52	55	42	32	33	35	34	35	33	29	31	39	46	53	36.8
Poplar Bluff	Maximum	35	42	53	55	60	66	61	67	66	69	61	59	59	68	73	76	72	69	74	67	47	56	61	61	64	67	61	64	57	65	67	62.0
	Minimum	30	19	19	17	31	33	49	32	40	34	40	54	34	30	33	35	54	54	51	55	32	28	40	33	30	40	32	32	41	47	54	37.3
Sikeston	Maximum	31	31	34	44	50	58	59	59	59	61	61	60	60	50	63	72	70	71	67	71	66	40	48	60	54	60	58	57	58	55	62	56.4
	Minimum	26	20	20	22	24	40	45	31	32	38	41	42	40	38	38	42	42	55	56	57	35	35	36	37	31	42	34	37	42	42	48	37.7
Cairo, Ill.	Maximum	37	34	43	49	58	58	59	57	58	57	63	62	60	61	68	72	69	64	72	69	41	45	56	51	59	59	53	56	55	61	69	57.3
	Minimum	28	23	26	31	38	42	49	41	41	42	47	56	44	43	48	52	56	55	58	41	36	36	37	40	43	43	40	43	44	48	54	42.8
Ozark Plateau.																																	
Arcadia§§.	Maximum	31	34	47	51	59	64	60	61	62	66	55	58	55	68	70	73	59	63	73	58	39	55	54	55	60	58	56	60	54	62	64	57.5
	Minimum	18	15	14	13	15	40	42	27	30	32	42	45	38	32	33	37	44	50	52	54	30	25	29	34	29	35	28	28	32	38	47	33.2
Birchtree	Maximum	33	32	47	52	61	65	61	57	63	66	60	63	59	68	70	73	66	69	76	69	46	51	59	55	60	61	56	63	56	62	64	59.5
	Minimum	28	16	15	25	39	37	50	32	36	43	46	52	37	32	43	49	50	50	50	38	29	24	40	34	38	35	37	36	40	43	46	37.7
Eldon §§	Maximum	32	45	55	63	62	59	60	64	72	58	68	52	68	74	77	61	70	54	37	37	54	53	50	64	53	51	60	57	65	60	61	57.9
	Minimum	12	13	16	25	40	42	32	32	32	48	50	40	34	36	43	31	34	39	35	28	26	26	35	35	32	32	33	33	43	49	51	34.2
Farmington	Maximum	30	30	42	52	57	64	57	59	64	70	57	62	57	65	74	76	66	67	78	64	40	51	52	50	58	51	53	60	55	66	58	57.6
	Minimum	26	16	19	15	35	42	46	33	35	41	44	50	38	34	38	42	51	50	55	40	30	29	36	32	33	34	31	32	35	47	53	36.8
Hollister	Maximum	38	38	48	56	72	70	72	70	68	64	70	68	60	70	71	72	78	74	72	70	40	55	60	58	70	71	68	70	70	70	68	64.5
	Minimum	16	10	0	10	35	34	25	24	18	19	34	40	38	20	22	24	20	40	38	25	20	12	15	16	22	23	22	24	20	38	46	24.2
Koshkonong	Maximum	34	34	47	52	60	68	67	60	65	68	53	65	58	69	72	70	70	74	71	71	45	53	58	51	61	59	62	68	55	68	68	60.6
	Minimum	22	18	19	26	37	39	52	39	38	42	45	52	39	36	43	47	51	51	57	38	30	29	40	33	38	39	36	34	41	47	49	38.9
Lebanon§§	Maximum	33	29	46	50	63	63	60	59	63	69	56	67	56	68	74	76	65	69	76	41	38	52	53	51	65	56	54	63	56	69	67	58.3
	Minimum	19	4	2	4	25	38	40	30	31	38	45	47	36	32	33	45	40	39	45	35	25	24	25	31	32	29	29	31	38	42	45	31.6
Mountain Grove	Maximum	29	30	34	47	50	63	64	58	59	61	65	55	65	57	69	70	72	60	67	71	41	36	52	54	51	62	57	60	60	50	65	55.9
	Minimum	23	12	7	20	31	37	45	30	37	41	46	51	38	33	41	45	45	46	53	37	26	24	35	32	36	32	33	36	40	41	46	35.5
Neosho	Maximum	35	39	44	55	65	69	68	59	62	69	67	64	58	69	73	71	67	75	78	77	40	54	51	56	64	64	61	60	60	73	68	61.8
	Minimum	25	12	5	22	46	30	50	28	29	50	51	42	36	28	39	52	39	36	57	31	27	24	32	33	37	34	34	33	43	51	60	36.0
Rolla	Maximum	32	32	45	51	62	65	57	55	64	69	69	65	60	67	73	76	70	71	70	67	37	53	52	52	61	61	54	65	57	66	64	59.4
	Minimum	28	10	13	22	39	41	50	32	31	46	47	50	39	32	42	47	43	47	53	34	27	25	38	31	39	31	32	35	40	46	52	37.0
Springfield	Maximum	32	28	44	50	63	64	57	55	61	68	56	61	54	64	73	73	62	67	74	42	35	49	50	49	62	52	57	59	50	65	65	56.2
	Minimum	25	15	16	30	43	39	44	36	38	46	48	40	38	38	47	52	39	45	42	29	26	27	35	31	40	33	36	38	41	47	55	37.4
Southwest Plain.																																	
Amoret	Maximum	36	36	40	55	64	63	60	60	63	73	64	66	57	66	67	63	70	66	55	48	49	52	51	62	64	61	52	60	55	64	62	58.2
	Minimum	26	20	10	18	28	31	45	30	29	46	47	39	32	28	38	40	32	38	37	27	27	25	30	28	31	29	34	33	44	48	53	33.0
Appleton City	Maximum	36	32	44	53	60	61	61	58	63	73	65	59	56	66	74	74	61	71	63	41	42	51	51	51	66	57	49	59	56	65	63	57.5
	Minimum	27	18	14	27	39	41	47	31	34	47	50	42	38	32	43	51	35	40	39	31	27	27	33	33	41	31	35	35	45	48	54	36.6
Centerview	Maximum	34	29	46	53	59	62	58	59	63	72	62	53	56	65	73	65	60	70	65	52	52	42	48	52	63	61	59	58	62	54	59	57.0
	Minimum	19	17	13	29	42	36	43	35	32	47	48	42	42	34	38	36	33	31	40	33	26	24	36	35	42	31	32	32	45	42	42	34.9
Clinton	Maximum	36	32	43	55	63	65	61	59	63	74	63	61	60	66	75	76	63	78	67	43	40	54	53	52	66	56	49	65	68	66	61	59.1
	Minimum	26	20	14	25	40	48	46	31	34	48	48	48	48	32	45	52	35	40	40	10	24	32	34	34	40	30	32	35	45	49	52	36.7
Harrisonville§§	Maximum	37	33	41	52	53	61	60	61	60	72	61	51	54	62	74	72	60	69	43	33	45	50	51	52	63	54	46	57	55	60	61	54.9
	Minimum	21	16	11	14	30	34	42	30	31	34	46	40	36	30	33	45	31	31	31	30	25	26	31	31	32	28	31	33	36	44	48	31.6
Lamar§§	Maximum	35	34	43	55	63	65	61	59	64	72	64	53	58	67	75	75	62	72	57	33	43	53	53	55	66	52	57	63	60	71	65	58.2
	Minimum	24	15	12	12	32	36	37	31	32	36	50	43	37	32	32	45	37	37	43	32	28	28	28	31	31	34	35	37	39	45	51	33.6
Lamonte	Maximum	35	31	46	37	62	64	58	61	65	75	61	57	50	68	77	78	62	70	51	40	40	55	49	53	65	53	48	58	61	62	57	56.4
	Minimum	21	11	9	24	37	35	37	28	33	47	47	40	37	29	42	49	33	37	37	31	26	25	31	32	36	32	32	31	44	49	52	34.0
Marshall	Maximum	34	30	46	57	68	68	63	..	60	75	68	59	48	68	77	80	66	71	65	46	38	46	42	46	52	57	52	57	58	59	57	[a]57.1
	Minimum	28	17	15	22	25	..	41	..	30	43	48	44	38	31	37	46	35	35	39	33	27	27	30	32	32	33	30	30	42	40	45	[b]33.6
Nevada	Maximum	34	32	41	54	60	62	60	60	62	62	63	61	57	69	75	74	61	71	66	40	42	52	52	52	65	56	56	61	58	66	65	57.7
	Minimum	26	16	14	29	41	37	47	30	35	48	50	41	39	31	45	51	35	38	39	31	28	29	33	31	41	32	34	34	44	50	56	36.6
Warsaw	Maximum	37	36	47	54	66	64	62	60	64	73	68	72	65	69	75	78	71	72	70	52	43	52	55	54	65	64	52	63	60	68	71	61.4
	Minimum	27	14	12	20	40	43	48	29	29	50	51	45	30	29	39	53	36	37	46	33	28	25	35	36	40	32	35	34	45	50	55	36.3
Northwest Plateau.																																	
Chillicothe §§	Maximum	35	34	44	54	47	59	58	60	62	69	56	55	44	65	75	74	62	65	40	36	40	52	47	50	60	52	48	58	56	67	51	54.0
	Minimum	24	13	8	11	30	32	33	29	30	35	42	48	37	31	35	42	31	32	38	31	26	25	30	31	35	32	27	29	37	42	42	31.2
Grant City	Maximum	32	32	40	40	43	56	51	58	56	58	52	52	42	63	72	64	62	60	50	30	40	50	44	49	54	49	51	56	52	63	58	50.9
	Minimum	25	13	14	26	36	31	28	30	33	41	38	39	34	32	43	43	30	35	27	26	23	31	33	31	39	32	26	32	44	38	40	32.0
Kansas City	Maximum	33	28	41	53	53	61	57	60	60	70	60	55	48	66	74	68	62	65	50	32	42	51	46	52	59	52	45	55	55	59	55	53.8
	Minimum	24	22	20	32	40	39	45	38	38	49	50	38	37	40	48	42	35	44	31	28	26	32	35	35	37	33	35	35	46	48	52	37.2
Kidder§§	Maximum	31	28	40	49	46	56	55	58	58	64	56	51	44	63	72	68	59	62	38	35	39	50	44	48	56	48	45	53	54	63	51	51.1
	Minimum	22	13	10	12	25	29	30	29	30	30	40	45	34	29	30	42	27	28	34	29	24	24	30	31	31	31	28	28	31	40	43	29.3
Lexington§§	Maximum	35	31	41	51	53	60	59	60	60	72	60	59	51	64	73	74	64	67	58	38	44	52	50	50	64	52	47	53	61	61	54	55.4
	Minimum	28	20	14	26	37	32	45	32	33	45	49	43	37	31	41	48	33	43	39	32	26	27	33	33	33	33	32	30	45	49	52	35.5
Maryville	Maximum	33	35	40	52	45	58	56	61	60	60	52	55	43	66	73	65	62	55	50	38	40	52	45	50	57	45	50	55	54	63	60	52.6
	Minimum	25	14	14	28	37	30	36	29	35	46	40	40	34	30	42	40	30	37	26	26	24	27	30	30	39	31	30	30	44	34	41	32.2
Oregon	Maximum	35	38	41	53	48	60	56	62	62	57	56	56	47	66	74	67	60	57	32	31	44	50	44	54	58	49	51	60	52	65	58	53.0
	Minimum	27	15	14	30	39	32	36	31	36	43	42	38	35	33	49	42	31	39	26	26	23	29	33	31	41	31	32	31	45	40	44	33.7
St. Joseph	Maximum	34	32	40	52	45	60	56	61	60	61	59	54	46	66	74	66	61	62	48	32	42	51	43	52	57	48	48	55	52	60	54	52.6
	Minimum	27	18	14	32	40	34	39	34	37	46	46	38	36	34	49	38	32	37	29	27	25	32	36	34	36	33	34	33	47	47	46	35.2
Trenton	Maximum	28	35	39	51	45	56	54	57	59	63	57	48	44	59	74	61	57	54	59	40	38	49	42	49	54	50	53	58	56	66	60	52.1
	Minimum	20	14	13	21	37	34	37	33	38	40	42	40	37	34	40	47	38	40	34	33	26	30	33	34	38	33	36	34	36	38	42	33.9

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXXI. COLUMBIA, MO., APRIL, 1927. No. 4.

GENERAL SUMMARY.

This was the third month in succession to show, for Missouri as a whole, abnormal warmth, and the second consecutive month to show unusual wetness. It was the wettest April in 60 years, and only four in past years back to 1888 were warmer. The only real cool spell of the month prevailed from about the 20th to the 25th, with general frost and freeze on the 21st, and 22d, and locally on the 23d, resulting in severe damage to most tree fruits, and berries, and gardens, but not crops, in the Ozark region, but doing only slight damage in the other sections. In some of the Ozark valleys, trees had their lower foliage killed, the line of demarcation from green to black being a striking instance of the effect of air drainage; in some of the narrow valleys or so-called pockets, the temperature dropped as low as 18°, or about 10° to 12° lower than at higher elevations in the same neighborhood.

Thunderstorms were numerous and frequently attended by hail and wind, but after all, the outstanding feature of the month was its excessive and persistent rainfall, and resulting floods and vast damage and loss, thousands of acres of fine crop lands being submerged for relatively long periods. The floods were not brought about by the April rainfall, alone, but by the combined totals of the two months, March and April, which amounted to 14.33 inches, or more than twice the normal. More details are given further along; and storms are under a special heading.

With respect to preparing for and planting corn, farm work is the most backward in years, but the weather seemed rather to favor the wheat and oat crops, and of course all grasses. It was decidedly unfavorable for the State Highway workers; and the railroads had quite frequent delays by washouts. Farmers had to take to horseback and horse drawn vehicles to get to the main highways leading to cities and markets.

TEMPERATURE.

The monthly mean temperature for the State, based upon the records of 69 stations, was 57.7°, 2.6° warmer than the the normal and nearly 8° warmer than last April. The warmth was quite uniformly distributed, although it was somewhat more noticeable in the Ozark region and the southwestern plain than elsewhere. Only one cool spell occurred, from about the 20th to 25th, and this one was widespread; frost and freezing temperatures were general on the 21st, and 22d, being more severe, however, in the Ozark region than elsewhere. There were eight stations north of the Missouri River where a minimum of 32° did not occur, while south of the river there were only four. Much damage was done to fruit in the Ozark region, orchards and strawberries being cut down fully 50 per cent; but almost no damage was done in the central and northern sections where it was not so cold or vegetation so advanced.

PRECIPITATION.

The monthly precipitation for the State, 103 stations reporting, was 8.46 inches, or 4.73 inches more than the 56 years' average. It was the wettest April since the beginning of rainfall records in 1867. The month was excessively wet in all sections but especially in the Ozark Plateau and the southeastern lowlands, where the monthly amounts averaged 10 to 12 inches. Four stations recorded more than four inches within 24 consecutive hours, but as a rule the 24-hour amounts were rather more moderate than is usual in times of continued rains; amounts for 48 hours beginning on the 13th were as much as 7 inches. In nearly all of the State there were but two or three days without rain from the 5th to the 21st, inclusive, and at most stations more than half the monthly total fell during that period. In the southeastern lowlands the rainfall since January 1st is more than double the normal, consequently that section has suffered severely from floods. The Missouri River below Kansas City, and the Mississippi River below St. Louis, as well as nearly all tributaries were out of banks a goodly part of the month, flooding thousands of acres of valuable lands, and resulting in vast damage and loss.

(Continued on Page 17.)

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	29.94	81	68	203	51	7,389	10.3	37	sw.	19
Hannibal	29.96	81	..	...	..	8,156	11.3	40	sw.	19
Kansas City	29.94	80	68	247	62	8,946	12.4	42	nw.	30
St. Joseph	29.93	83	68	255	64	7,726	10.7	45	nw	28
St. Louis	29.98	80	70	152	38	9,975	13.9	53	sw.	19
Springfield	29.92	82	61	238	60	9,073	12.6	40	sw.	19
Cairo, Ill	29.99	81	72	...	..	7,805	10.8	41	sw.	1
Keokuk, Iowa	29.99	84	71	198	41	6,810	9.5	35	sw.	19

COMPARATIVE DATA FOR APRIL.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	57 9	+2.8	91	20	1.83	-1.89	....	....	5	....	....	....
1889	55.7	+0.6	90	26	2.52	-1.20	....	....	8	....	....	....
1890	56.2	+1.1	93	24	3.17	-0.55	....	....	8	....	....	....
1891	56.8	+1.7	93	15	3.90	+0.18	....	....	9	....	....	....
1892	53.1	-2.0	88	26	5.66	+1.94	4.25	....	11	9	8	13
1893	53.9	-1.2	95	19	7.84	+4.12	5.50	....	12	8	9	13
1894	56.1	+1.0	93	20	3.17	-0.55	2.49	T.	8	12	10	8
1895	57.9	+2.8	100	24	1.95	-1.77	2.88	T.	7	14	8	8
1896	61.9	+6.8	92	17	3.51	+0.21	3.00	0.0	9	11	12	7
1897	54 4	-0.7	88	21	4.55	+0.83	3.50	T.	10	10	11	9
1898	52.5	-2.6	90	14	3.65	-0.07	3.25	T.	10	12	9	9
1899	54.0	-1.1	96	6	3.70	-0.02	3.76	3.8	8	12	9	9
1900	56.7	+1.6	89	21	3.36	-0.36	3.82	0.7	9	11	10	9
1901	53.3	-1.8	94	24	2.85	-0.87	2.23	1.8	8	14	7	9
1902	53.9	-1.2	95	19	2.66	-1.06	4.35	T.	11	13	11	6
1903	55.9	+0.8	91	26	3.54	-0.18	4.06	1.2	9	11	10	9
1904	49 0	-6.1	84	19	5.75	+2.03	6.10	2.7	9	15	6	9
1905	54.9	-0.2	92	20	3.19	-0.53	4.00	0.3	6	14	8	8
1906	59.5	+4.1	93	22	2.24	-1.41	2.45	0.0	8	17	7	6
1907	48.7	-6.4	89	16	3.43	-0.29	2.75	T.	8	11	8	11
1908	56.6	+1.5	90	18	5.30	+1.58	3.30	T.	11	11	8	11
1909	54.8	-0.3	93	19	4.35	+0.63	3.80	T.	8	13	9	8
1910	54.8	-0.3	95	21	3.51	-0.21	3.50	0.9	11	12	7	11
1911	53.5	-1.6	89	20	4.99	+1 27	4.27	T.	10	12	8	10
1912	56.0	+0.9	97	24	5.98	+2.26	4.50	0.7	10	13	7	10
1913	56.2	+1.2	94	25	3.33	-0.45	3.90	T.	7	16	5	9
1914	55.2	+0.1	91	18	3.14	-0.74	3.00	T.	8	12	7	11
1915	61.9	+6.5	96	18	2.03	-1.82	2.08	T.	7	16	8	6
1916	53.5	-1.8	93	21	3.23	-0.69	2.35	1.9	10	11	8	11
1917	53.2	-2.3	89	19	5.97	+2.02	4.80	1.2	12	12	6	12
1918	50.8	-4.4	93	19	5.10	+1 24	3.50	0.9	11	12	6	12
1919	55.3	+0.3	94	20	3.01	-0.64	3.25	T.	9	12	7	11
1920	50.2	-4.7	89	4	3.95	+0.15	2.98	4.8	11	11	7	12
1921	56.0	+0.9	91	19	5.37	+1.52	4.20	1.1	10	13	7	10
1922	57.3	+1.9	91	24	6.21	+2.42	5.49	T.	11	13	6	11
1923	54.2	-0.6	91	16	3.12	-0.74	2.50	0.4	8	14	8	8
1924	56.6	+1.5	95	11	2.07	-1.66	2.35	T.	6	14	8	8
1925	61.0	+5.9	92	24	4.11	+0.38	3.51	0.0	10	12	9	9
1926	49.9	-5.2	91	11	2.46	-1.27	3.19	2.4	8	14	6	10
1927	57.7	+2.6	94	18	8.46	+4.73	4.85	T.	14	10	7	13

Climatological Data for April, 1927

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	47	55.3	+ 1.2	88	28	34	23	39	8.69	+5.21	1.74	0	17	8	2	20	ne.	O. K. Benecke
Clifton Hill	Randolph	731	27	54.8	+ 1.3	84	28	29	22	35	5.93	+1.57	1.20	T.	15	8	5	17	......	Dr. A. J. Bradsher
Columbia	Boone	748	36	56.8	+ 1.9	87	28	31	22	34	5.17	+1.47	1.15	T.	14	6	9	15	e.	U. S. Weather Bureau
Downing	Schuyler	876	5	52.4	......	80	17	27	23	30	7.59	+3.84	2.61	0	13	12	2	16	e.	E. E. St. Clair
Fayette	Howard	661	46	55.6	+ 1.3	87	28	28	22	39	6.39	+2.85	1.40	0	10	..	..	..	......	J. D. Settle
Fulton	Callaway	818	38	56.4	+ 2.1	87	29	30	22	41	6.00	+1.67	1.51	0	13	8	10	12	......	Chamber of Commerce
Gorin	Scotland	700	39	....	......	..	..	..	..	..	5.02	+1.02	0.85	0	14	3	10	17	ne.	J. W. Pulliam
Hannibal	Marion	534	34	54.0	+ 0.6	83	17	32	22	28	3.95	+0.70	1.20	0	15	7	7	16	e.	U. S. Weather Bureau
Jefferson City	Cole	557	38	58.1	+ 2.0	87	28	32	22	39	6.86	+3.32	1.82	0	15	10	4	16	n.	Miss Emma Swift
Kirksville	Adair	969	37	52.2	+ 0.5	82	28	29	23	40	7.74	+4.10	2.59	0	12	10	4	16	e.	Prof. J. S. Stokes
Louisiana	Pike	469	32	56.4	+ 2.8	84	18	29	22	34	8.94	+5.56	1.74	T.	13	15	3	12	e.	J. T. Farrell
Macon	Macon	875	27	53.8	+ 0.7	86	28	30	22†	39	7.67	+4.48	2.00	T.	16	12	3	15	se.	W. C. Brown
Mexico	Audrain	800	37	55.1	+ 1.4	87	28	34	22	43	7.80	+4.13	1.68	0	15	12	1	17	e.	Mrs. Abbie Snoddy
St. Charles	St. Charles	456	38	57.2	+ 1.8	87	28	29	22	44	8.89	+5.21	1.70	T.	15	7	8	15	s.	L. C. Saeger
St. Louis (1)	St. Louis City	568	52	57.0	+ 0.9	82	28	34	22	28	6.30	+2.78	1.34	T.	14	9	4	17	e.	U. S. Weather Bureau
St. Louis (2)	....do	578	14	56.5	+ 1.3	81	26†	34	22	28	6.45	+2.44	1.13	T.	14	9	4	17	se.	St. Louis University
Shelbina	Shelby	779	33	....	......	..	..	..	..	..	6.53	+3.00	1.97	0	17	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	28	53.3^{a}	+ 0.4	83	29	29	23	34	7.61	+4.00	1.63	T.	15	10	9	11	e.	Frank Hall
Unionville	Putnam	1,062	33	52.5	+ 1.8	84	28	27	23†	32	6.65	+2.84	2.30	0	10	3	11	16	ne.	Geo. W. Davis
Warrenton	Warren	816	44	57.0	+ 2.5	86	4	31	22†	40	7.60	+3.29	1.34	T.	14	9	6	15	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	614	54	52.0	− 0.3	81	17	29	23	27	2.95	−0.39	0.80	T.	13	5	7	18	e.	U. S. Weather Bureau
Section means and	extremes	.....	..	55.2	+ 1.3	88	28	27	23	44	6.70	+3.00	2.61	T.	14	9	6	15	e.	
Southeast Lowlands.																				
Benton	Scott	340	1	....	......	..	..	..	..	..	9.79	......	1.31	0	19	..	..	..	......	E. R. Tirmenstein
Campbell	Dunklin	314	1	62.7	......	85	27	30	22†	35	10.73	......	2.00	0	17	12	8	10	s.	Jeff. King
Caruthersville	Pemiscot	265	30	64.0	+ 3.8	85	27†	40	3†	39	16.46	‡12.34	3.30	0	18	13	3	14	nw.	John T. Markey
Doniphan	Ripley	344	22	61.6	+ 3.6	86	27	30	22	41	14.63	+9.26	3.20	0	15	10	10	10	sw.	W.W. Martin
Jackson	Cape Girardeau	428	35	59.8	+ 2.9	85	27†	27	22	33	10.44	+5.97	1.99	T.	17	6	1	23	s.	John G. Putz
Marble Hill	Bollinger	470	31	61.6	+ 4.9	88	27	28	22	33	13.47	+9.03	2.56	0	16	10	6	14	n.	R.A. DeWitt
Morehouse	New Madrid	289	25	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	John A. Spence
Parma	New Madrid	281	5	....	......	..	..	..	..	..	10.19	. . .	1.86	0	16	..	..	..	......	H. W. Kendall
Patton	Bollinger	605	17	....	......	..	..	..	..	..	9.69	+6.21	1.52	0	18	..	..	..	......	S. P. Presnell
Poplar Bluff	Butler	339	22	62.2	+ 3.0	94	27	27	22	49	12.89	+8.42	2.42	0	17	15	4	11	s.	J. H. Wolpers
Sikeston	Scott	318	21	61.2	+ 3.3	87	27	32	22	36	13.87	+9.61	4.20	0	16	11	4	15	sw.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	358	51	60.6	+ 2.5	81	28	39	22	25	9.59	+6.02	1.73	0	17	6	5	19	s.	U. S. Weather Bureau
Section means and	extremes	....	..	61.7	+ 3.0	94	27	27	22	49	12.07	+8.36	4.20	0	17	10	5	15	s.	
Ozark Plateau.																				
Arcadia	Iron	926	45	53.3	− 2.0	88	28	26	22	40	10.63	+6.01	1.85	0	17	16	0	14	s	Arcadia College
Aurora	Lawrence	1,370	36	61.2	+ 5.5	87	28	30	22	33	8.85	+4.50	1.81	0	13	7	12	11	se.	W. T. Troughton
Birchtree (near	Shannon	1,000	31	61.0	+ 4.2	87	27	28	22	37	10.98	+6.26	1.88	0	15	16	3	11	se.	V. H. Kirkendall
Bolivar	Polk	1,071	32	61.6	+ 5.5	85	28†	31	22	39	7.27	+3.28	1.21	0	16	6	18	6	s.	Southwest Baptist College
Dean ††	McDonald	1,000	27	67.4	+10.1	91	10	32	22	32	9.30	+5.26	2.00	0	13	17^{a}	2^{a}	10^{a}	e.	H. E. Dean
Eldon	Miller	934	30	57.9	+ 2.5	87	28	30	22	42	5.95	+1.49	1.34	0	16	3^{b}	13^{b}	12^{b}	sw.	E. H. Shepherd
Farmington	St. Francois	918	15	58.2	+ 1.3	89	28	27	22	37	11.11	+7.15	2.05	T.	19	7	11	12	sw.	Robert Forsyth
Gano ††	Dent	1,250	22	59.7	+ 4.1	88	28	28	22	35	7.75	+3.20	1.63	0	16	8	8	14	se.	A. C. Leach
Goodland	Iron	1,000	32	59.4	+ 4.8	87	28	23	22	40	7.58	+2.49	1.35	0	13	7	11	12	s.	F. M Adams
Greenville	Wayne	381	4	60.4	......	82	27†	27	22	38	11.87	......	2.25	0	18	13	3	14	s.	Wm. P. Owens
Hailey	Barry	1,350	1	....	......	..	..	..	..	..	6.16		1.53	0	11	15	8	7	sw.	A. W. Madison
Hollister	Taney	735	39	58.5	− 1.2	91	10†	18	22	53	18.25	‡13.68	4.75	0	9	10	9	11	se.	Mrs. W. P. Chapman
Koshkonong	Oregon	958	25	62.9	+ 5.1	88	27†	30	22	38	13.70	+8.73	4.60	0	14	12	4	14	sw.	R. M. Hitt
Lebanon	Laclede	1,265	38	58.9	+ 3.2	87	28	26	22	44	9.52	+5.34	2.00	0	17	11	5	14	se.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	20	58.6	+ 2.6	83	28	30	22	27	9.55	+5.89	1.58	0	11	18	2	10	se.	C. S. Crow
Mountain Grove(near)	Wright	1,463	25	60.0	+ 5.8	87	27	26	22	33	9.88	+5.10	1.59	0	15	8	11	11	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	62.1	+ 4.1	85	10†	27	22	37	8.86	+4.74	2.53	0	12	16	5	9	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	26	60.0	+ 5.0	89	28	28	22	37	6.53	+1.87	1.18	0	15	9	8	13	w.	Prof. Elmo G. Harris
Seligman	Barry	1,542	24	61.1	+ 5.3	88	10	26	22	36	9.83	+5.90	2.60	0	15	14	9	7	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,642	20	59.5	+ 4.1	84	27†	25	22	38	9.48	+5.52	1.88	0	12	7	13	10	s.	Ira H. Hailey
Springfield	Greene	1,324	38	59.7	+ 3.7	86	28	32	22	30	9.65	+5.79	2.44	0	14	18	4	8	se.	U. S. Weather Bureau
Section means and	extremes	.....	..	60.0	+ 3.9	91	10†	18	22	53	9.65	+5.38	4.75	0	14	11	8	11	se.	
Southwest Plain.																				
Amoret	Bates	831	19	59.6	+ 5.1	85	28	31	22	38	8.77	+4.77	2.35	0	10	17	5	8	e.	Andrew Rood
Appleton City	St. Clair	853	32	59.8	+ 4.0	85	28	31	22	32	6.03	+1.77	1.10	0	14	3	21	6	sw.	W. G. Bigelow
Centerview	Johnson	872	39	....	......	..	..	..	..	..	....		....	..	..	..	..	..	......	....
Clinton	Henry	765	33	60.8	+ 5.1	88	28	34	22	28	6.82	+2.78	1.70	0	15	4	16	10	ne.	A. E. Derwent, M. D.
Harrisonville	Cass	904	49	56.2	+ 2.4	84	28	31	22	42	7.91	+4.52	1.96	0	15	3	4	23	e.	John H. Patterson
Lamar	Barton	980	39	60.2	+ 3.6	86	28	32	22	41	11.29	+7.14	4.85	0	12	16	4	10	se.	Jesse A. Mann
Lamonte	Pettis	867	25	58.1	+ 3.0	90	28	29	22	42	6.82	+3.05	1.28	0	13	12	10	8	e.	J. E. Wheeler
Marshall	Saline	779	37	58.2^{c}	+ 3.8	87	28	30	22	37	7.83	+4.14	2.03	0	13	8^{c}	10^{c}	9^{c}	......	Dr. W. H. Black
Nevada	Vernon	862	33	60.3	+ 5.2	85	28	31	22	35	8.08	+4.29	1.50	0	12	14	7	9	s.	George A. Kaupp
Warsaw	Benton	687	26	61.8	+ 6.0	88	28	33	22	33	6.71	+2.49	1.18	0	12	12	11	7	w.	Everett Martin
Section means and	extremes	.....	..	59.4	+ 4.2	90	28	29	22	42	8.78	+3.88	4.85	0	13	10	10	10	e.	
Northwest Plateau.																				
Bethany	Harrison	916	34	54.0	+ 2.8	83	28	29	22	33	6.76	+3.54	1.63	T.	14	8	5	17	se.	M. H. Moulton
Chillicothe	Livingston	779	17	53.8	+ 0.5	86	28	32	2†	40	8.96	+4.52	2.41	0	16	8	11	11	se.	Wm. J. Olenhouse
Conception	Nodaway	980	37	53 4	+ 1.5	85	28	30	21†	33	5.62	+2.81	0.98	T.	14	7	8	15	ne.	Fr. Adelhelm Hess
Edgerton	Platte	856	6	56.1^{b}	......	84	28	33	21†	36	5.25	+1.71	1.19	0	16	18	2	10	s	Fred L Stiff
Grant City	Worth	1,134	22	52.7	+ 1.2	83	28	30	22†	41	6.82	+3.76	1.32	T.	15	12	7	11	se.	W. P. Spillman
Kansas City	Jackson	963	37	57.0	+ 2.2	85	28	34	21	33	6.27	+2.98	2.56	0	15	8	12	10	e.	U. S. Weather Bureau
Kidder	Caldwell	1,020	33	52 0	− 0.4	82	28	30	2†	40	9.41	+6.37	2.00	0	16	10	1	19	ne.	Linn Terry
King City ††	Gentry	1,095	1	....	......	..	..	..	..	..	7.61	......	1.73	0	13	..	..	..	......	D. B. Oliver
Lexington	Lafayette	688	41	57.6	+ 3.5	85	28	33	22	31	9.26	+5.90	1.59	0	17	6	14	10	n.	Edwin G Loomis
Maryville	Nodaway	1,169	36	54.0	+ 3.9	84	26†	31	21†	35	7.81	+4.90	1.75	T.	13	15	1	14	s.	J. R. Brink
Oregon	Holt	1,048	70	55.9	+ 2.0	87	28	31	21†	34	6.16	+2.87	1.80	0	17	13	7	10	ne.	Mina Wright
St. Joseph	Buchanan	967	18	55.8	+ 2.0	87	28	33	21	31	6.64	+3.79	1.67	T.	17	14	5	11	e.	U. S. Weather Bureau
Tarkio	Atchison	916	23	52.6	+ 0.4	88	26	30	21†	48	5.47	+2.30	1.47	0	13	7	9	14	se.	Albert Volker
Trenton	Grundy	822	30	54.2^{d}	+ 1.6	81	17	32	23†	28	5.83	+2 56	2.10	T.	13	7	10	13	e.	W. H. Estes
Section means and	extremes	.....	..	54.5	+ 1.8	88	26	29	22	48	6.94	+3.69	2.56	T	15	10	7	13	se.	
State means and	extremes	.....	..	57.7	+ 2.6	94	27	18	22	53	8.46	+4.73	4.85	T.	14	10	7	13	e.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ††Post-office addresses of these stations are as follows: of Dean, Anderson; of Gano, Salem, R. F. D. No. 5. ‡ Indicates plus.

Daily Precipitation for April, 1927

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
Northeast Plain.																																	
Boonville‖	Missouri	1.60	....	....	....	....	....	T.	.84	.08	1.04	.11	.10	1.35	.16	.83	....	....	....	.15	.05	.20	T.	....	....	....	....	....	....	.25	....	....	6.76
Brunswick‖	Grand	1.74	.06	.07	....	....	....	.05	.75	.06	1.45	.08	.15	1.20	.40	.60	....	....	.25	1.20	.15	.30	....	....	....	....	....	....	....	.18	....	....	8.69
Clifton Hill	Chariton	1.06	....	....	T.	....	....	.36	.08	.28	.29	.40	.85	.25	.15	.47	....	....	.04	1.20	T.	.40	....	T.	.02	....	....	....	....	.08	....	....	5.93
Columbia***	Missouri	.05	....	....	T.	....	....	.34	.34	.41	.49	.27	1.15	.17	.48	.14	....	....	T.	1.03	.22	.07	....	T.	.01	T.	....	....	....	T.	....	....	5.17
Downing	Mississippi	1.38	.20	.06	....	....	....	T.	.31	.06	....	....	.59	.03	.52	.76	....	....	.32	2.61	....	.32	....	....	....	....	....	....	....	.43	....	....	7.59
Fayette‖‖	Missouri	.99	....	....	....	....	....	....	1.03	....	1.40	.10	1.04	.30	....	.85	....	....	....	.20	....	.25	....	....	....	....	....	....	....	.23	....	....	6.39
Fulton	do	1.51	.03	....	....	....	....	.03	.68	.01	.79	.20	.10	1.47	.27	.60	....	....	....	.14	....	.17	....	....	....	....	....	....	....	....	....	....	6.00
Gorin	Mississippi	.53	.11	.06	T.	....	....	.34	.31	.01	....	....	.68	.12	.05	.54	....	....	.45	.85	....	.26	....	....	....	....	....	....	....	.71	....	....	5.02
Hannibal***	do	.28	....	....	.11	....	....	.06	.31	T.	.10	.26	1.20	.25	.19	.16	....	....	.10	.70	.04	.14	....	....	....	....	....	....	....	.05	....	....	3.95
Hermann‖	Missouri	1.80	.04	....	....	....	....	....	.48	.15	.85	.80	.27	.90	.65	.35	.02	....	....	.46	.35	.10	....	....	....	....	....	....	....	....	.20	....	7.42
Jefferson City‖	do	1.82	.03	....	....	....	....	.15	.90	.02	1.05	.15	.21	1.25	.21	.54	.03	....	....	.25	.10	.15	....	....	....	....	....	....	....	....	....	....	6.86
Kirksville	Mississippi	1.12	....	....	....	....	....	.50	.32	.14	....	....	.74	.14	.38	.57	....	....	.16	2.59	.03	....	....	....	....	....	....	....	....	1.05	....	....	7.74
Louisiana	do	1.74	.22	....	.91	....	....	.07	.23	....	1.51	.28	1.25	1.30	.21	.34	....	....	....	.76	....	.12	....	....	T.	....	....	....	....	T	....	....	8.94
Macon ‖	Chariton	2.00	.10	....	....	.12	....	....	.55	.15	.50	.29	.10	1.22	.15	.66	....	....	.18	.77	.21	.44	....	T.	....	....	....	....	....	.23	....	....	7.67
Mexico ‖	Mississippi	1.68	.05	....	....	.03	....	....	.16	.20	1.20	.10	.84	1.62	.20	.57	....	....	....	.08	.82	.20	....	....	T.	....	....	....	....	.05	....	....	7.80
Milan ‖	Grand	1.40	.50	....	....	....	....	....	.30	.22	.08	....	.10	.05	.12	1.05	....	....	.50	2.82	.10	....	....	....	....	....	....	....	....	.28	....	....	7.52
Pacific‖	Meramec	1.68	....	....	....	.45	....	.15	.45	.41	.25	1.00	.33	.75	1.20	.75	.20	....	.05	.47	T.	T.	....	....	....	....	....	....	....	....	.32	....	8.46
St. Charles	Missouri	1.02	.04	....	.69	....	....	.36	.21	.21	.70	.17	1.70	.90	.64	.62	.41	....	T.	1.00	....	....	....	....	T.	....	....	....	....	.22	....	....	8.89
St. Louis (1)***	Mississippi	T.	....	....	.33	....	....	.35	.47	.06	1.28	.16	.90	.42	.47	.80	.10	....	.01	.36	T.	....	....	T.	T.	....	....	....	T.	.59	....	....	6.30
St. Louis (2)*	do	T.	....	....	.64	....	....	.39	.45	.07	1.13	.18	.59	.66	.55	.69	.03	....	.01	.43	T.	T.	....	T.	T.	....	....	....	....	.63	....	....	6.45
Shelbina ‖‖	do	1.97	.09	....	....	.28	....	.04	.21	.25	.68	.03	.01	1.01	.16	.69	....	....	.01	.33	.37	.35	....	....	....	....	....	....	....	.05	....	....	6.53
Steffenville	do	1.63	....	....	.20	....	....	.20	.40	.05	.05	T.	1.50	.50	.05	.65	....	....	1.00	.33	.30	20	....	T.	....	....	....	....	....	.55	....	....	7.61
Union‖	Meramec	1.82	....	....	....	.34	....	.08	.48	.32	.44	.86	.22	.34	.76	.38	.04	....	.02	.62	.02	.03	....	....	....	....	....	....	....	....	.52	....	7.29
Unionville ‖	Chariton	1.50	....	.15	....	....	....	T.	.45	.15	....	....	....	T.	.25	.90	....	....	.40	1.90	T.	.35	....	....	....	....	....	....	....	.60	....	....	6.65
Warrenton	Mississippi	1.34	T.	....	T.	....	....	.33	.33	.75	1.19	.15	.84	.54	.39	.33	....	....	....	.93	.31	.05	....	....	T.	....	....	....	....	.12	....	....	7.60
Keokuk, Ia.***	do	.22	.01	T.	T.	....	....	.26	.22	T.	....	....	.32	.05	.35	.32	....	....	.50	.43	.12	.02	T.	....	....	....	....	....	....	.13	....	....	2.95
Southeast Lowlands																																	
Benton	Mississippi	.41	....	.12	....	1.07	....	.38	.87	.16	.22	.09	.87	1.00	1.31	.89	.58	....	.35	.01	.03	.30	....	....	....	....	....	....	.72	....	.41	....	9.79
Campbell‖	St. Francis	.10	....	....	....	.38	....	.13	.98	.68	.20	.28	.18	2.00	1.15	1.34	1.15	....	.40	....	....	.50	.02	....	.04	....	....	....	....	....	1.20	....	10.73
Cape Girardeau‖	Mississippi	.87	....	....	.03	.85	....	T.	.90	....	.16	.35	.06	1.12	1.55	.16	1.18	....	.40	.08	.15	.22	.04	....	....	.02	....	....	....	....	1.25	....	9.39
Caruthersville ‖	do	.28	....	....	....	.78	....	.56	.63	2.10	1.50	1.59	.18	1.50	1.35	.20	3.30	....	.53	....	.03	1.52	.08	....	....	....	....	....	.03	....	.30	....	16.46
Dexter‖	St. Francis	.49	....	....	....	.52	....	T.	2.02	.66	.32	.24	.02	4.00	1.60	.92	1.12	....	.24	....	.02	.22	....	....	....	T.	....	....	....	....	1.07	....	13.46
Doniphan	Black	1.00	....	.04	....	....	T.	2.00	.95	.78	.25	.18	.40	3.20	2.00	2.38	....	....	.70	.25	....	.05	....	....	T.	....	....	....	....	.45	....	....	14.63
Jackson	Mississippi	.62	....	.26	....	.73	....	.70	.34	.18	.43	.16	....	.88	1.99	.94	.52	....	.45	....	.48	.16	....	....	T.	....	....	....	....	1.35	.25	....	10.44
Marble Hill	Mississippi	.90	....	....	....	.65	....	.95	.75	.30	.60	.26	.72	1.05	2.56	1.62	.68	....	.67	.26	....	.18	....	....	....	....	....	....	....	1.32	....	....	13.47
Morehouse	do	.26	....	.03	....	.64	....	.30	2.17	.51	.50	.08	.04	4.63	1.13	.86	.62	....	.37	....	.07	.32	....	....	....	....	....	....	....	.32	.82	....	13.67
New Madrid‖	do	1.08	....	....	....	.38	....	.04	1.10	1.02	.32	.25	.22	2.00	.98	.13	2.35	....	.47	T.	.03	1.21	.08	....	....	....	T.	....	....	....	.98	....	12.64
Parma	St. Francis	.21	....	....	....	.37	....	.48	1.21	.45	.58	.16	....	1.86	1.07	1.16	.76	....	.32	....	.18	.38	....	....	....	....	....	....	....	.51	.49	....	10.19
Patton	Mississippi	.73	....	.10	....	.48	....	.70	.17	.23	.42	.19	.04	1.34	1.52	1.20	.27	....	.58	.32	.04	.02	....	....	....	T	....	....	....	1.34	....	....	9.69
Poplar Bluff ‖	Black	....	....	....	.40	....	.32	2.28	.33	.84	.20	.08	2.42	1.60	2.27	.32	....	.28	.10	50	.03	....	....	....	.06	....	....	....	....	.86	....	....	12.89
Sikeston‖	Mississippi	.89	....	....	.03	.76	....	T.	2.05	1.08	.37	.17	.11	4.20	.86	.14	1.42	....	.36	T.	....	.33	.08	....	....	T.	....	....	....	....	1.02	....	13.87
Cairo, Ill.***	do	T.	....	.06	.84	.24	....	1.42	.48	10	.18	.05	.64	1.66	.01	1.51	.16	....	.24	....	.01	.74	....	....	T.	T.	....	....	....	1.25	....	....	9.59
Ozark Plateau.																																	
Arcadia ‖	St. Francis	1.85	....	....	....	.50	....	.22	.83	T.	.34	.34	.16	1.00	1.45	.72	.85	....	.40	1.33	....	....	....	.05	.09	.05	....	....	....	....	.45	....	10.63
Aurora	Neosho	....	....	....	....	....	....	.95	.19	.15	....	1.03	.87	1.10	1.19	.15	....	....	1.81	.48	T	.24	....	....	.24	....	....	....	....	.45	....	....	8.85
Birchtree (near)	Black	.25	....	....	....	.50	....	.70	.05	.56	.31	.24	.65	1.55	1.33	1.12	....	....	1.88	.80	....	....	....	....	.08	....	....	....	....	.96	....	....	10.98
Bolivar	Osage	.52	....	....	T.	.02	....	.41	.80	1.21	....	.32	.45	.71	.20	1.20	....	....	.81	.22	....	.20	....	....	.16	.02	....	....	....	.02	....	....	7.27
Caplinger Mills	Osage	....	....	....	T.	....	....	.24	1.73	2.77	....	.33	.66	.14	1.07	....	....	....	.84	.44	T.	....	....	....	.07	....	....	....	....	.03	....	....	8.32
Dean	Neosho	....	....	....	....	....	....	.45	.34	....	....	.55	.99	2.00	1.72	T.	.04	....	1.85	.40	.30	.47	....	....	.10	....	....	....	....	.09	....	....	9.30
Eldon‖‖	Missouri	....	....	....	....	....	....	.31	1.34	.09	.44	.19	.17	.83	.45	1.34	.02	....	....	.30	.08	.10	....	....	.02	.02	....	....	....	....	.25	....	5.95
Farmington	St. Francis	.90	....	.14	....	.72	....	1.00	.35	.24	.57	.22	.17	1.03	.96	2.05	.05	....	.48	.58	.24	....	....	....	.03	....	....	....	....	1.16	.22	....	11.11
Fredericktown‖‖	do	....	....	....	.05	.35	....	....	.93	....	.55	.38	....	.13	.93	1.75	1.22	.88	.60	.35	.28	.05	....	....	.21	.09	....	....	....	....	.06	....	8.81
Galena‖‖	White	....	.15	....	....	....	....	....	1.30	....	....	1.20	.96	....	2.30	....	....	....	2.00	1.05	....	.48	....	....	.30	.25	....	....	....	....	.22	....	10.21
Gano	Meramec	1.32	....	.08	.17	....	....	1.63	....	.44	.18	.36	.19	.56	.82	.48	.04	....	.55	.58	....	T.	....	....	.15	....	....	....	....	.20	....	....	7.75
Goodland	Black	.48	....	.12	....	....	....	1.35	.28	.42	.48	.22	.22	.28	1.15	1.00	....	....	.93	.65	....	....	....	....	....	....	....	....	....	....	....	....	7.58
Greenville	St. Francis	1.45	....	....	....	1.15	....	1.68	.10	.42	.20	.09	.03	2.25	1.06	1.20	.41	....	.79	.10	.26	.03	....	....	....	T.	....	....	....	.53	.12	....	11.87
Hailey	White	....	....	....	.04	....	....	.70	....	30	....	....	1.30	1.53	.02	.15	....	....	1.06	.42	....	.32	....	.32	....	....	....	....	....	....	....	....	6.16
Hollister	do	....	....	....	.10	....	....	....	....	1.50	1.20	....	1.40	2.30	4.75	3.00	....	....	2.00	2.00	....	....	....	....	....	....	....	....	....	....	....	....	18.25
Jerome ‖	Gasconade	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Koshkonong	Black	.73	....	....	....	.53	....	.80	.22	.82	....	.23	.19	1.88	4.60	.84	....	....	1.64	1.00	....	.05	....	....	....	....	....	....	....	.17	....	....	13.70
Lebanon ‖	Osage	2.00	....	....	....	T.	....	.25	.95	.20	.30	.50	.20	.45	1.40	.80	....	....	.30	1.00	.83	.05	....	....	.08	.13	....	....	T.	....	.08	....	9.52
Lockwood	do	....	....	....	....	....	....	.95	1.05	1.58	....	.32	1.15	.79	1.52	....	....	....	1.30	.20	....	....	....	....	.37	....	....	....	....	.32	....	....	9.55
Mountain Grove‖	White	1.59	....	....	....	....	....	.62	.61	.59	....	.45	.73	.95	1.21	.37	.03	....	1.14	1.17	.08	....	....	....	.20	....	....	....	....	.14	....	....	9.88
Neosho	Neosho	T.	....	....	T.	....	....	1.15	.25	.10	....	T.	1.05	1.48	1.48	....	.10	T.	2.53	.23	T.	.20	....	....	.22	....	....	....	....	.07	....	....	8.86
Owensville ‖	Gasconade	1.12	....	....	....	....	....	.22	.40	.70	.33	.93	.40	.50	.90	.43	....	....	....	1.01	....	....	....	....	....	....	....	....	....	....	1.12	....	8.06
Rolla ‖	Meramec	....	....	....	....	....	.67	.77	.06	.36	.75	.19	.38	1.18	.28	.03	....	.21	.91	....	....	....	....	.08	.06	....	....	....	....	.60	....	....	6.53
Seligman	Neosho	....	....	....	.10	....	....	1.20	.32	.04	....	.68	.61	1.35	2.60	.08	.02	....	1.22	.52	....	.19	....	....	.10	....	....	....	....	.80	....	....	9.83
Seymour (near)	White	.05	....	....	T.	....	....	.73	T.	1.30	....	.75	.14	1.88	.95	.96	....	....	1.30	.88	....	....	....	....	.42	....	....	....	....	.12	....	....	9.48
Springfield***	do	....	....	....	T.	....	....	.30	.23	1.95	....	65	.38	1.22	2.22	.23	....	....	1.35	.77	.13	.07	....	.10	.05	....	....	T.	....	T.	....	....	9.65
Steelville‖	Meramec	1.72	....	....	T.	.60	....	.15	1.50	....	.20	.55	.15	.50	1.12	.90	.16	....	.11	.73	.09	.05	T.	....	.05	....	....	....	....	....	.50	....	9.08
Stover ‖	Missouri	1.91	....	....	....	....	....	.46	.77	.29	.71	.40	1.00	....	.40	1.00	....	....	....	.70	.36	.26	....	....	....	....	....	....	....	....	....	....	8.26
Tuscumbia ‖	Osage	1.43	....	....	....	....	....	.59	1.60	.04	.45	.43	.09	.66	.49	1.00	....	....	....	.44	.12	.03	....	....	.05	....	....	....	....	....	.02	....	7.44
Willow Sprgs.‖‖ (near)	White	.77	....	....	....	.67	....	....	.98	1.55	.24	.40	....	.72	2.30	.83	....	....	1.05	1.95	.12	....	....	....	.20	....	....	....	....	....	.48	....	12.26
Southwest Plain.																																	
Amoret	Osage	.11	....	....	....	....	....	.05	1.60	.62	....	26	.84	.42	2.35	....	....	....	.87	1.65	....	....	....	....	....	....	....	....	....	....	....	....	8.77
Appleton City	do	....	....	....	....	....	....	.09	1.10	.89	....	.79	.46	.55	.88	.12	....	....	.23	.10	.48	.12	....	....	.05	....	....	T.	....	.17	....	....	6.03
Centerview	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Clinton	Osage	.30	....	....	....	....	.25	.80	.25	1.70	.09	....	1.70	.23	.75	....	....	....	.20	.20	.09	.16	....	....	.02	....	....	....	....	.08	....	....	6.82
Concordia‖‖	Missouri	....	....	....	....	....	....	.20	.80	.10	1.05	.15	.34	1.03	.12	1.43	....	....	....	1.96	....	1.11	....	....	....	....	....	....	....	....	....	....	8.29
Harrisonville‖	Osage	1.22	....	....	....	....	....	.12	.83	.20	.37	.04	.03	.77	.35	1.44	....	....	....	1.96	....	.38	....	....	.02	....	....	....	....	.12	.06	....	7.91
Joplin*	Neosho	....	....	....	.04	....	.03	.50	.65	25	.25	.10	.85	1.10	.99	T.	....	.16	1.32	.42	.47	T.	....	.05	.19	....	....	....	....	.10	....	....	7.47
Lamar ‖	do	.90	....	....	....	....	....	....	4.85	.93	....	.20	....	.92	1.05	.88	....	....	.28	.94	....	.12	....	....	.20	.02	....	....	....	....	T.	....	11.29
Lamonte	Missouri	.35	....	....	....	....	....	.16	1.05	.26	.64	....	.94	....	.75	.78	....	....	15	1.28	.05	.08	....	....	....	....	....	....	....	.33	....	....	6.82
Marshall	do	.43	....	....	....	....	....	.15	.60	.48	.99	1.41	.28	....	.20	.37	.30	....	....	2.03	T.	.54	....	....	....	....	....	....	....	.05	....	....	7.83
Nevada	Osage	.76	....	....	....	....	....	....	1.07	1.29	....	.17	1.50	.38	.91	....	....	....	1.10	.18	.20	.32	....	....	.20	....	....	....	....	....	....	....	8.08
Osceola‖‖	do	2.37	....	....	....	....	....	.27	.92	1.85	.34	.23	.04	.91	.28	1.18	....	....	.03	.78	.13	.34	....	....	....	....	....	....	....	....	....	....	9.67
Warsaw ‖	do	.75	....	....	....	....	....	.50	.75	1.10	.08	.10	1.18	.20	.50	1.00	....	....	.25	.30	....	....	....	....	....	....	....	....	....	....	....	....	6.71
Waverly ‖	Missouri	1.18	.02	....	....	T.	....	.10	.67	.26	1.91	.08	T.	1.03	.43	.89	....	....	.10	1.43	T.	.51	....	....	....	T.	....	....	....	.29	....	....	8.90
Northwest Plateau.																																	
Albany‖‖	Grand	1.50	....	.08	....	....	....	....	....	....	.60	.01	.02	.35	....	....	....	....	.25	1.49	....	.10	....	....	....	....	....	....	....	T.	....	....	4.40
Bethany	do	.72	....	....	T.	....	....	.30	.03	.30	....	.12	.63	.11	.31	.40	....	....	1.10	1.63	.20	T.	....	T.	T.	T.	....	.16	T.	.75	....	....	6.76
Chillicothe ‖‖	do	1.69	.15	....	....	....	....	.24	.51	.09	.63	.22	.09	.48	.18	.43	....	....	.76	2.41	.03	.28	T.	....	T.	T.	....	T.	....	.77	....	....	8.96
Conception	Missouri	.39	....	....	....	....	....	.29	.18	.28	.07	.19	.81	.22	.34	.34	....	....	.47	.98	.28	....	....	T.	....	....	....	....	....	.78	....	....	5.62
Edgerton	do	.15	.01	....	....	....	....	.24	.02	.31	1.19	.01	.46	.13	.17	.29	....	....	.78	.99	.09	.02	....	....	....	....	....	....	....	.39	....	....	5.25
Gallatin ‖	Grand	1.90	.50	....	....	....	....	T.	.50	.40	T.	.70	.50	.70	T.	1.00	....	....	....	....	....	....	....	....	....	....	....	....	....	.70	....	....	6.90
Grant City	do	.90	....	....	....	....	....	.09	1.25	.24	.10	....	.48	T.	.33	.42	....	....	.44	1.32	.41	.06	....	.04	....	....	....	.12	.62	....	....	....	6.82
Kansas City***	Missouri	.08	....	....	....	....	.01	.24	.17	.66	.07	T.	.42	.20	1.13	.02	....	....	2.35	.36	.20	....	....	T.	T.	....	....	....	.01	.35	....	....	6.27
Kidder ‖	Grand	1.55	.03	....	....	....	....	.20	.33	.02	.67	.80	.36	.67	.20	1.21	....	....	.27	2.00	.30	.20	....	....	T.	....	....	....	....	.60	....	....	9.41
King City	Missouri	.67	....	....	....	....	....	.60	....	.50	.75	....	.70	.52	.36	.35	....	....	.38	1.73	.25	.05	....	....	....	....	....	....	....	.75	....	....	7.61
Lexington ‖	do	1.37	....	....	....	....	....	.05	.70	.19	1.54	.10	.05	1.02	.36	1.57	....	....	.02	1.59	.12	.28	....	....	.03	....	....	....	....	.25	.02	....	9.26
Maryville ‖	do	1.75	.10	....	....	....	....	....	.15	....	.45	.33	.48	.40	....	.98	....	....	.55	1.17	....	.45	....	T.	.05	....	....	....	....	.95	....	....	7.81
Oregon	do	.43	....	....	....	....	....	.25	.20	.15	.19	.95	.53	.07	.35	.12	.14	....	1.09	.71	.27	.01	....	.01	....	....	....	....	....	.69	....	....	6.16
St. Joseph***	do	.24	....	....	....	....	....	.33	.02	.18	.68	1.06	.39	.33	.52	.26	....	....	1.46	.21	.34	....	....	.03	.01	....	....	....	.33	.25	....	....	6.64
Tarkio	do	.28	....	....	....	....	....	....	.38	.53	.04	.02	.44	.14	.45	.26	....	....	.86	.26	.34	....	....	T.	....	....	....	....	....	1.47	....	....	5.47
Trenton	Grand	.14	....	....	....	....	....	.58	T.	.31	.21	.33	.32	.12	.63	....	....	....	.12	2.10	T.	.30	....	T.	....	....	.03	....	....	.64	....	....	5.83

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for April, 1927

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Mean
Northeast Plain.																																	
Brunswick §§	Maximum	48	50	72	80	69	76	53	56	57	61	64	62	52	58	72	77	81	72	71	60	46	49	50	52	65	80	80	88	71	62	..	64.5
	Minimum	47	35	36	41	43	44	46	46	47	47	51	51	50	48	50	47	53	62	59	40	38	35	34	35	38	43	52	57	60	47	..	46.1
Columbia	Maximum	57	47	73	84	66	74	61	57	65	66	58	67	58	58	71	79	84	72	72	60	46	49	48	46	65	82	79	87	73	64	..	65.6
	Minimum	38	36	41	50	45	47	46	50	47	55	49	51	51	51	56	52	64	68	49	42	32	31	34	38	40	54	62	58	53	46	..	47.9
Fayette§§	Maximum	55	55	76	81	69	77	52	59	67	65	60	70	53	59	75	69	84	73	72	65	48	55	48	48	64	80	83	87	73	67	..	66.3
	Minimum	46	35	37	46	41	39	41	46	46	46	48	48	49	48	49	46	51	62	60	40	37	28	33	35	36	41	57	56	58	45	..	45.0
Hannibal	Maximum	52	44	63	72	64	71	56	50	53	57	52	62	56	52	69	78	83	74	74	58	42	45	42	50	64	81	76	80	73	62		61.8
	Minimum	36	35	39	47	47	48	44	47	46	49	45	49	47	45	51	56	65	68	47	42	33	32	33	37	38	53	61	57	48	44	..	46.3
Jefferson City §§	Maximum	52	55	77	86	67	77	57	68	65	74	64	68	62	66	76	77	82	72	76	62	52	52	51	46	67	83	82	87	71	66	..	68.0
	Minimum	50	37	38	52	45	45	49	50	49	50	50	50	53	54	56	51	50	65	61	44	40	32	35	38	39	44	55	57	61	47	..	48.2
Kirksville	Maximum	46	47	65	75	68	73	66	51	50	57	59	58	58	46	51	75	79	75	67	69	47	45	42	52	63	78	78	82	80	61	..	62.1
	Minimum	36	32	37	35	40	45	39	42	40	47	45	47	46	40	42	44	59	49	54	35	35	30	29	31	38	47	55	53	57	43	..	42.4
Louisiana	Maximum	53	44	65	75	75	74	70	57	57	58	57	65	64	52	69	78	82	84	75	70	58	54	47	52	65	82	80	83	80	66	..	66.4
	Minimum	44	37	37	47	46	40	44	46	45	48	45	46	47	46	50	55	58	65	60	42	38	29	33	36	33	52	63	52	63	45	..	46.4
Macon§§	Maximum	50	56	72	80	69	75	50	51	50	55	63	61	52	57	74	78	82	75	72	62	45	48	46	50	65	80	80	86	70	66	..	64.0
	Minimum	45	32	33	47	40	40	42	41	43	43	45	45	45	43	44	49	51	62	60	37	36	30	30	33	39	44	51	53	59	44	..	43.5
Mexico§§	Maximum	49	45	74	85	63	70	52	53	57	52	54	64	53	59	69	79	85	70	72	60	46	50	46	46	65	82	80	87	72	64	..	63.4
	Minimum	45	37	37	42	45	43	49	45	46	47	48	47	50	49	49	52	55	65	61	42	39	34	35	36	39	43	55	59	62	49	..	46.8
St. Louis(1)	Maximum	60	44	64	78	66	73	60	60	60	57	52	63	67	57	71	76	80	76	79	60	59	52	44	44	64	81	78	82	72	62	..	64.7
	Minimum	42	38	39	50	50	53	47	48	49	50	47	50	54	51	52	57	60	65	60	48	39	34	35	39	40	55	66	57	54	47	..	49.2
Unionville	Maximum	43	46	65	70	66	70	70	52	52	54	60	60	56	44	70	74	78	79	70	65	44	43	41	53	65	80	78	84	76	60	..	62.3
	Minimum	36	32	38	46	40	40	42	40	40	42	46	47	42	40	42	50	60	60	55	35	33	30	27	30	38	48	50	52	57	44	..	42.7
Warrenton	Maximum	55	44	73	86	82	75	73	56	61	61	54	64	60	55	70	77	82	77	75	69	53	50	50	44	66	81	79	85	82	66	..	66.8
	Minimum	43	35	37	46	45	47	43	48	46	49	45	47	53	50	52	54	59	64	60	43	38	31	31	37	35	51	63	54	64	45	..	47.2
Southeast Lowlands.																																	
Campbell	Maximum	72	69	77	81	76	74	67	73	72	70	68	79	76	75	73	75	80	81	80	76	63	60	56	51	66	77	85	83	76	74	..	72.8
	Minimum	61	42	42	53	52	47	54	52	59	58	51	55	59	60	59	58	59	64	69	60	47	30	37	41	43	47	55	56	53	56	..	52.6
Caruthersville	Maximum	80	72	79	81	74	74	63	76	71	71	65	81	78	75	73	77	82	83	83	76	63	59	59	55	68	77	85	85	76	70	..	73.7
	Minimum	62	44	40	47	56	52	55	53	61	59	53	53	59	60	61	56	59	63	64	61	46	40	43	44	48	48	59	62	63	57	..	54.3
Doniphan	Maximum	73	63	76	82	77	75	63	69	72	68	64	73	69	72	68	75	82	79	82	68	63	62	60	53	67	82	86	85	78	75	..	72.0
	Minimum	58	41	42	52	50	47	52	52	60	58	52	53	59	60	60	60	57	60	59	59	45	30	35	40	42	42	45	55	55	54	..	51.1
Jackson	Maximum	72	57	66	78	75	73	69	72	69	69	61	65	72	73	74	74	70	80	80	79	66	55	52	52	66	76	85	85	85	71	..	70.7
	Minimum	52	39	39	47	47	40	50	49	55	52	46	49	58	55	57	56	66	56	67	54	42	27	30	35	41	47	55	52	54	48	..	48.8
Poplar Bluff	Maximum	74	66	77	83	77	77	69	69	74	71	64	70	71	72	70	78	84	81	83	77	63	66	61	52	68	80	94	87	78	76	..	73.7
	Minimum	54	41	42	50	49	43	52	51	57	61	51	53	58	58	61	57	52	62	61	57	49	27	33	40	41	44	45	53	62	53	..	50.6
Sikeston	Maximum	76	60	71	76	70	73	66	75	71	69	56	70	73	71	72	71	78	79	81	76	64	60	53	49	65	78	87	84	77	69	..	70.7
	Minimum	55	42	41	52	52	46	56	51	58	56	50	53	59	59	59	56	57	65	68	60	45	32	35	41	43	43	51	56	61	53	..	51.8
Cairo, Ill.	Maximum	74	50	67	76	67	70	63	74	68	67	56	67	74	70	71	74	78	79	79	66	63	56	50	48	62	72	81	81	72	65	..	68.0
	Minimum	49	42	43	56	54	52	52	53	60	54	50	55	59	57	58	58	60	65	66	60	40	39	40	40	46	55	61	60	60	53	..	53.2
Ozark Plateau.																																	
Arcadia§§	Maximum	60	55	73	53	70	58	53	60	60	60	53	60	59	63	62	62	62	64	64	59	47	55	52	42	59	68	59	68	60	52	..	59.1
	Minimum	52	37	37	41	47	38	43	49	51	54	47	47	52	57	57	56	57	60	59	52	40	26	29	35	34	41	56	48	57	48	..	46.9
Birchtree	Maximum	65	60	78	81	70	76	63	67	72	70	65	72	64	68	70	76	81	78	81	72	67	54	62	58	66	80	87	86	76	65	..	71.0
	Minimum	49	38	41	55	48	56	51	57	59	56	50	52	58	58	58	54	58	52	60	58	42	28	34	40	42	56	52	55	60	50	..	50.9
Eldon §§	Maximum	51	54	79	85	67	76	55	74	71	74	69	59	62	66	72	78	82	72	75	63	46	55	53	44	65	81	83	87	74	67	..	68.0
	Minimum	51	36	37	50	45	45	45	52	51	51	53	52	55	56	56	50	51	63	61	44	40	30	32	35	38	43	53	55	56	48	..	47.8
Farmington	Maximum	58	47	74	82	65	77	65	72	76	68	53	62	66	61	66	78	82	80	80	66	55	54	52	43	60	82	82	89	76	68	..	68.0
	Minimum	47	35	37	57	45	41	49	53	55	51	46	46	56	55	57	53	57	61	62	50	39	27	31	35	39	48	61	58	57	46	..	48.5
Hollister	Maximum	76	78	84	88	87	78	68	69	78	91	80	78	76	68	72	78	84	80	78	80	70	71	66	64	70	72	91	90	88	90	..	78.1
	Minimum	36	34	38	40	35	30	47	48	44	46	48	46	48	46	42	35	42	50	49	40	30	18	22	20	32	34	38	44	42	44	..	38.9
Koshkonong	Maximum	70	62	81	84	78	78	66	68	75	78	80	79	65	69	72	77	80	85	87	77	60	59	65	56	67	81	88	88	80	68	..	74.1
	Minimum	46	39	43	59	49	49	52	53	59	60	53	49	58	58	58	53	63	61	57	58	48	30	35	40	43	47	56	60	62	52	..	51.7
Lebanon§§	Maximum	55	57	79	85	68	75	56	76	77	79	75	75	67	70	73	79	80	76	75	67	47	57	61	49	67	81	86	87	72	76	..	70.9
	Minimum	50	34	35	42	41	41	47	51	52	54	55	54	65	57	53	49	50	57	58	47	38	26	28	32	39	43	49	56	56	49	..	46.9
Mountain Grove	Maximum	62	61	76	83	75	71	62	67	72	77	70	70	63	67	68	75	77	75	79	63	58	55	60	51	65	80	87	84	77	69	..	70.0
	Minimum	46	35	43	58	45	48	52	52	51	60	55	49	57	57	55	50	57	58	59	53	39	26	33	40	44	47	57	59	62	50	..	49.9
Neosho	Maximum	64	63	73	82	72	79	72	70	80	85	82	82	64	65	73	77	78	78	78	73	71	59	65	65	65	80	85	84	84	77		74.2
	Minimum	45	36	39	46	37	42	57	55	57	62	58	58	56	53	49	48	61	58	60	53	39	27	37	52	40	47	57	61	61	48	..	50.0
Rolla	Maximum	64	54	78	85	76	77	70	71	74	78	69	65	64	65	72	78	79	75	79	72	55	55	56	55	66	81	82	89	78	69	..	71.0
	Minimum	44	35	41	53	46	46	50	50	52	56	50	53	53	55	56	53	60	59	60	47	39	28	32	35	40	49	62	60	60	46	..	49.0
Springfield	Maximum	61	56	76	82	65	73	63	65	73	78	73	69	62	67	67	76	77	76	73	67	47	53	58	50	63	78	82	86	72	63	..	68.4
	Minimum	38	35	48	52	46	51	55	57	54	63	59	59	56	57	54	50	59	58	57	47	35	32	39	41	45	50	60	62	59	52	..	51.0
Southwest Plain.																																	
Amoret	Maximum	65	55	78	80	68	70	74	65	77	78	78	71	65	64	68	77	80	73	73	65	56	57	56	65	64	80	83	85	80	71	..	70.7
	Minimum	41	33	40	42	39	43	41	55	52	56	56	58	55	54	49	50	60	58	59	42	42	31	38	37	41	49	60	59	60	58	..	48.6
Appleton City	Maximum	61	53	77	79	67	72	66	63	76	73	77	74	64	66	70	77	78	70	73	69	59	57	57	52	64	78	82	85	77	65	..	69.4
	Minimum	41	33	45	58	42	47	56	55	53	57	56	58	55	56	52	51	60	59	60	44	36	31	36	40	43	50	61	60	60	49	..	50 1
Centerview	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Clinton	Maximum	65	66	59	56	65	66	68	63	73	80	78	73	64	65	72	78	80	74	74	70	62	52	59	65	70	75	85	88	78	70	..	69.8
	Minimum	53	54	45	41	45	42	55	54	52	55	55	58	55	54	56	52	62	60	60	42	35	34	35	45	45	65	65	68	65	50	..	51.9
Harrisonville§§	Maximum	44	50	77	79	69	71	59	64	70	76	75	65	60	62	71	76	77	66	71	60	48	55	50	51	66	81	79	84	73	61	..	66.3
	Minimum	42	31	35	48	39	39	49	52	48	49	52	53	54	50	51	50	54	60	57	40	34	31	34	35	40	45	52	60	55	43	..	46.1
Lamar§§	Maximum	50	58	79	81	67	78	66	64	80	81	79	74	66	66	73	78	79	74	72	75	50	56	64	53	63	80	82	86	71	65	..	70.3
	Minimum	49	37	38	50	41	42	50	56	57	61	60	60	58	58	50	51	53	59	59	50	40	32	35	42	45	46	52	61	62	51	..	50.2
Lamonte	Maximum	55	77	77	81	81	77	64	60	69	76	74	61	61	52	72	79	82	70	72	66	55	52	52	52	67	81	82	90	74	67	..	69.3
	Minimum	38	35	35	41	41	44	51	52	48	53	51	54	51	51	53	49	61	59	51	52	35	29	33	37	37	49	59	56	56	47	..	46.9
Marshall	Maximum	52	48	70	81	68	74	70	58	58	68	65	62	..	55	71	71	81	81	74	71	62	51	51	..	68	..	81	87	85	70	..	[c]67.9
	Minimum	42	36	41	48	60	58	50	48	41	43	50	50	..	50	54	65	61	66	65	51	36	30	34	35	38	..	59	50	50	45	..	[b]48.4
Nevada	Maximum	61	55	80	80	66	73	68	65	78	77	75	72	64	65	70	71	77	72	71	72	50	60	60	54	64	78	80	85	78	65	..	69.5
	Minimum	41	36	45	58	41	46	56	56	57	62	59	57	56	56	51	52	60	59	61	48	36	31	40	42	45	50	60	61	61	49	..	51.1
Warsaw	Maximum	57	55	77	83	69	76	72	66	76	80	77	74	67	68	70	78	80	79	75	69	63	65	66	63	65	82	85	88	84	71	..	72.7
	Minimum	44	37	44	54	44	43	56	54	53	57	56	57	56	58	55	50	65	62	61	45	39	33	37	40	43	53	64	56	63	51	..	51.0
Northwest Plateau.																																	
Chillicothe §§	Maximum	45	48	71	79	68	72	50	55	61	55	63	60	50	56	71	77	81	72	69	53	47	49	46	51	67	81	79	86	72	66	..	63.3
	Minimum	45	32	33	39	40	42	45	42	44	44	48	49	47	45	45	48	50	61	57	37	36	33	32	35	37	46	57	56	60	45	..	44.3
Grant City	Maximum	42	47	65	69	68	71	64	50	53	53	63	60	60	47	68	72	75	75	67	51	45	45	42	49	67	82	76	83	75	63	..	61.6
	Minimum	34	32	33	49	41	46	44	44	42	48	48	49	44	42	45	48	58	59	49	35	31	30	32	34	40	41	54	55	62	44	..	43.8
Kansas City	Maximum	52	49	75	75	66	74	58	61	68	76	75	64	57	59	71	77	79	70	66	50	45	53	48	51	66	81	79	85	72	58	..	65.3
	Minimum	37	36	42	52	46	50	50	52	47	52	53	56	49	48	54	55	64	59	46	37	34	36	35	38	44	53	66	62	57	47	..	48.6
Kidder§§	Maximum	43	49	67	74	65	70	51	57	61	56	61	59	50	57	63	74	78	70	67	48	45	45	44	49	65	80	75	82	70	61	..	61.2
	Minimum	40	30	32	41	37	37	43	43	43	43	48	49	47	44	47	47	52	59	57	36	32	30	32	33	35	40	49	53	58	43	..	42.7
Lexington§§	Maximum	50	50	75	80	67	73	67	60	64	72	72	61	61	54	72	76	78	71	69	60	49	52	49	50	66	81	79	85	78	68	..	66.3
	Minimum	44	36	40	50	40	43	52	51	47	52	52	54	55	49	53	50	62	60	59	40	35	33	35	37	40	50	61	57	69	57	..	48.8
Maryville	Maximum	47	47	68	69	69	73	65	52	65	54	63	60	60	52	70	73	78	75	66	48	46	48	44	49	71	84	81	84	79	66	..	63.5
	Minimum	34	32	38	50	37	44	44	45	43	48	48	50	44	43	45	49	60	58	48	37	31	31	33	34	40	49	55	58	59	44	..	44.4
Oregon	Maximum	47	52	72	71	68	77	63	62	60	62	74	66	61	50	71	75	78	72	66	54	48	55	48	49	69	85	85	87	84	70	..	66.0
	Minimum	36	32	39	53	39	44	47	48	46	50	50	53	48	45	49	49	61	58	52	37	31	32	35	35	43	51	52	55	59	44	..	45.8
St. Joseph	Maximum	50	52	70	72	66	73	58	60	63	65	72	62	58	55	71	76	80	72	66	46	47	50	46	51	68	84	79	87	72	61	..	64.4
	Minimum	36	35	42	50	43	46	48	49	46	52	52	53	47	47	53	52	63	60	45	37	33	34	36	36	44	53	61	62	55	48	..	47.3
Trenton	Maximum	51	49	66	74	66	73	64	56	57	62	63	..	55	48	73	71	81	70	66	48	40	40	41	55	68	76	77	80	75	65	..	[a]62.4
	Minimum	35	34	40	50	42	52	41	42	44	48	50	51	..	..	..	..	62	59	45	39	36	33	32	36	40	51	58	65	62	48	..	[d]46.0

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 6-15-27—890

Continued from Page 13.

THUNDERSTORMS, HAIL, WIND, AND TORNADOES.

As an accompanying feature of more or less severe thunderstorms and wind, hail fell at Jackson on the 3d, 5th, and 14th; at St. Louis, Steffenville, Louisiana, and Hollister on the 4th; severe hail fell at Hollister on the 9th, damaging fruits and gardens; at Brunswick on the 10th, where the stones were one-half to 2 inches in diameter; very little damage owing to backward condition of field crops; hail also fell at Brunswick on the 12th, and 21st. At Fulton, Columbia, Clifton Hill, Warrenton, Edgerton, Lexington, and Oregon on the 10th; at Appleton City, Mexico, and Warrenton on the 12th; at Morehouse, 13th; Gorin, 18th; Columbia, Clifton Hill, Warrenton, St. Charles, St. Louis, Macon, and Louisiana, 19th; at Marble Hill, Poplar Bluff, Conception, and Tarkio on the 29th. A little sleet was recorded at Grant City on the 20th, and snow flurries at Jackson the 24th.

Northeast Missouri, from about Boone County to Adair and east to the Mississippi River, was visited by excessive rains, severe local hail, and high winds on the 19th. Between 10 a. m. and noon, excessive rain and heavy hail fell at Macon, Macon County, and at Monroe City, in the northeast corner of Monroe County. At Macon tracks were washed out, train schedules stopped, roads made impassable, and all creeks went out of banks. The storm traveled east-southeast, reaching Monroe City with heavy hail, the stones varying in size from a small walnut to small teacups. The path was about six miles wide, the severe part narrowing down to one-half mile or less. At Monroe City more than 3,000 window panes were broken, and many composition roofs punctured. Damage to buildings, etc., about $10,000; to crops and fruit $500. This section is not much of a fruit country, and most field crops were unplanted. The storm swept southeast over Ralls and Pike Counties, but, according to reports from those counties, the damage was immaterial.

Squalls were more or less general before noon in Boone and Callaway Counties; and about 11:30 a. m. a small tornado apparently formed in the southeast part of Boone County, in the neighborhood of the Little Bonne Femme Creek, and traveled northeast passing over the northwest corner of Callaway County. The tornado did not sweep the ground all the way, although tree tops were twisted off most of the way; three homes and five barns were wrecked, at a loss of about $15,000; no persons killed and none injured. The storm passed over Benton, Audrain County, about 36 miles from the starting place at 12:30 p. m., as a straight blowing wind, doing some $200 damage to buildings, etc,. and reached Vandalia in the northeast corner of Audrain County, 20 miles from Benton, at about 1 p. m. It struck Vandalia with considerable violence, demolishing or damaging 25 to 30 buildings, lifting and throwing aside two loaded freight cars, but, strange to say, only injuring four persons, none seriously. Damage put at about $40,000 or $50,000. Soon after passing over Vandalia the tornado lifted from the ground and traveled over Pike County, straight northeast to Louisiana as a strong gale. but, according to reports received, doing no material damage.

About 1 p. m. another tornado developed in Lincoln County, in the neighborhood of Sandy Creek, four and one-half miles southwest of Apex. This could not have been the same storm that struck Vandalia about the same hour, 40 miles northwest, but it sprung from the same strong wind that embraced most of the east-central counties from 10 a. m. to 1 p. m. The tornado passed over Apex, or a little to the north, injuring twelve persons, five seriously, with one not expected to live. The damage to houses and household effects, etc., was estimated to be between $15,000 and $20,000. Orchards to the extent of $1,000. The tornado lifted and passed over the Mississippi River, into Illinois where, according to the section director for Illinois, it was very destructive.

UNMS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXXI. COLUMBIA, MO., MAY, 1927. No. 5.

GENERAL SUMMARY.

A month to be remembered by the frequent and excessive rains and consequent large percentage of cloudy weather, the severe river floods, the continuity and destructiveness of winds and hail, and consequent loss in property as well as lives, entailed upon the State. Such, in brief, were the outstanding features of May, 1927, in Missouri.

Notwithstanding the fact the month averaged normal as to warmth, the mean temperature being 64.6°, exactly agreeing with the 36 years' normal, the general public has put the month in the cold class, largely because of the lack of sunshine, and the prevalent dampness, such conditions requiring rather frequent house warmings. There was only one real cool spell of about a week duration beginning on the 10th, with light frost in central and northern sections on the 11th, and 12th. Light frost in May, however, is not unusual. As to the general distribution, the northern part of the State averaged slightly cooler than the normal while the southern half was a little warmer.

Apart from some of the northwestern counties, the rainfall was excessive everywhere, being most pronounced in the southeastern lowlands, where it was from twice to three times the usual, and augumenting the already very disastrous flooded conditions that have prevailed in that section since about the tenth of April. In most of the State creeks and small rivers were in flood, inundating bottom lands, destroying valuable crops and other property, while the principal rivers were bankfull, causing much uneasiness and interest in the daily stages.

It was a hard month on the farmers, and the weather adversely affected nearly every kind of outdoor occupation. At the close of the month not more than 60 per cent of the corn had been planted, while many sections had hardly started. There was too much water for best results in both wheat and oats, while fruits, truck, and gardens made indifferent advances, but pastures and all grasses made excellent growth. The planting season is the most backward in many years.

Severe wind and hail storms are treated under special headings.

TEMPERATURE.

The monthly mean temperature for the State, 68 stations reporting, was 64.6°, or practically normal. The northern half of the State experienced a small deficiency, while in the southern half there was a slight excess. The largest departure from the normal was −1.2°, in the northeast plains. The temperature alternated above and below the normal for short periods, the longest and coldest period running from about the 10th to the 16th, the coldest days being the 11th and 12th, with minima from about 38° in the southeast to 34° in the central and northwest sections, with light frost more or less general north of the Missouri River, but without any damage. The warmest period was from the 17th to the 24th, the 23d being the warmest day, when afternoon temperatures ranged around 90°, although the 17th, 18th, 24th, 26th, and 29th were nearly as warm. The maximum was 94°, the lowest since 1919, and the minimum was 34°, the highest since 1922.

PRECIPITATION.

The average precipitation for the State, 101 stations reporting, was 6.98 inches, or about 2.28 inches more than the 56 years' average, and the wettest May since 1915. Only six other Mays have been wetter since the beginning of rainfall records in 1867, although several other Mays have been nearly as wet as this one. And besides the rainfall of the present month was not evenly distributed, the southeastern lowlands, for instance, receiving about three times the normal, while the northwestern plateau got about half the usual May rainfall. The frequency of the showers and the heavy daily amounts were the outstanding feature. All sections reported heavy to excessive twenty four-hour amounts, the largest being 4.62 inches, at Caplinger Mills on the 31st, in fact this water fell within about one hour and forty five minutes, according to the observer there. The 1st, and 2d, the 11th, and 12th, the 15th,

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PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	29.86	80	65	262	59	6,320	8.5	32	sw.	23
Hannibal	29.86	78	..	...	..	6,815	9.2	48	sw.	23
Kansas City	29.85	77	57	315	71	9,142	12.3	55	nw.	13
St. Joseph	29.84	79	54	329	74	7,490	10.1	55	nw	24
St. Louis	29.88	76	67	212	48	10,525	14.1	75	w.	9
Springfield	29.83	81	63	297	68	8,933	12.0	48	sw.	23
Cairo, Ill	29.90	83	72	...	.	6,964	9.4	39	s.	9
Keokuk, Iowa	29.87	81	67	248	56	6,104	8.2	35	sw.	23

COMPARATIVE DATA FOR MAY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	62.1	−2.3	93	30	5.35	+0.58	....	0	5	....	....	....
1889	63.5	−0.9	96	28	6.56	+1.79	....	0	5	....	....	....
1890	62.8	−1.6	96	32	3.47	−1.30	....	0	6	....	....	....
1891	61.5	−2.9	97	28	4.26	−0.51	....	0	8	....	....	....
1892	60.7	−3.7	91	28	7.80	+3.03	3.90	0	17	5	9	17
1893	66.8	−2.6	94	30	5.89	+1.12	5.83	0	10	11	11	9
1894	63.7	−0.7	95	22	3.99	−0.78	4.20	0	8	13	11	7
1895	64.6	+0.2	103	28	4.08	−0.69	3.43	0	9	13	12	6
1896	70.1	+5.7	96	32	9.09	+4.32	4.66	0	12	12	12	7
1897	62.4	−2.0	93	28	2.56	−2.21	3.82	0	7	16	11	4
1898	65.2	+0.8	97	31	7.90	+3.13	5.50	0	14	12	10	9
1899	66.9	+2.5	96	34	6.26	+1.49	5.28	0	2	10	13	8
1900	66.3	+1.9	97	29	3.69	−1.06	4.00	0	10	14	11	6
1901	63.8	−0.6	98	30	1.47	−3.30	3.04	0	6	15	10	6
1902	69.4	+5.0	98	39	5.03	+0.25	4.35	0	11	13	11	7
1903	65.1	+0.7	92	23	7.10	+2.33	3.10	0	15	9	10	12
1904	63.1	−1.3	95	32	5.03	+0.26	4.33	0	12	13	10	8
1905	64.9	+0.5	94	34	4.87	+0.10	4.55	0	10	12	11	8
1906	66.3	+1.9	98	27	2.16	−2.61	3.83	0	7	15	10	6
1907	59.5	−4.9	91	17	5.56	+0.79	4.33	0	10	14	6	11
1908	66.1	+1.7	96	24	6.92	+2.15	5.65	0	12	12	10	9
1909	63.3	−1.1	96	23	5.34	+0.57	5.26	0	9	15	9	7
1910	60.1	−4.3	94	32	6.62	+1.85	4.30	0	13	11	8	12
1911	68.8	+4 4	101	27	1.55	−3.22	2.06	0	5	19	7	5
1912	67.6	+3.2	97	30	3.86	−0.91	4.90	0	7	18	8	5
1913	65.8	+1.3	101	33	3.05	−1.93	2.95	0	8	16	7	8
1914	66.6	+2.0	98	31	1.47	−3.40	3.00	0	5	17	9	5
1915	63.7	−1.4	97	30	7.86	+3.04	7.10	0	12	12	7	12
1916	65.6	+0.7	96	33	5.61	+0.89	4.10	0	11	15	8	8
1917	58.7	−6.2	91	30	4.33	−0.47	2.60	0	10	15	7	9
1918	68.3	+3.8	100	28	5.49	+0.68	5.25	0	10	16	8	7
1919	62.0	−2.5	93	35	5 80	+0.87	4.50	0	13	10	10	11
1920	63.8	−0.8	97	32	4.85	+0.04	3.70	0	12	9	9	13
1921	66.4	+2.0	102	28	3.69	−1.20	4.12	0	7	17	8	6
1922	67.2	+2.3	97	38	3.17	−1.77	2.50	0	10	14	10	7
1923	62.7	−1.9	97	25	4.59	−0.49	3.48	T.	12	11	10	10
1924	58.6	−6.0	96	31	4.67	−0.03	3.90	0	10	13	8	10
1925	61.2	−3.4	98	24	2.14	−2.56	2.86	0	7	14	9	8
1926	67.0	+2.4	100	32	2.73	−1.97	5.80	0	7	16	9	6
1927	64.6	0.0	94	34	6.98	+2.28	4.62	0	12	11	10	10

Climatological Data for May, 1927

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	47	64.1	− 0.2	91	23	40	12	40	7.21	+2.32	2.48	0	13	12	2	17	se.	O. K. Benecke
Clifton Hill	Randolph	731	27	62.2	− 2.0	83	18	37	12	35	6.97	+1.83	1.63	0	13	6	14	11	......	Dr. A. J. Bradsher
Columbia	Boone	748	36	63.2	− 1.1	88	23	39	12	30	6.68	+1.82	1.55	0	16	6	12	13	se.	U. S. Weather Bureau
Downing	Schuyler	876	5	61.8	......	88	23	38	12	33	3.33	−1.08	0.67	0	10	15	9	7	n.	E. E. St. Clair
Fayette	Howard	661	46	61.8	− 2.5	89	23	34	12	41	6.51	+1.89	1.22	0	11	..		..	......	J. D. Settle
Fulton	Callaway	818	38	62.8	− 2.2	87	24	37	12	35	9.10	+4.33	1 62	0	19	9	19	3	......	Chamber of Commerce
Gorin	Scotland	700	39	....	......	..	..	..	..	..	4.49	−0.12	1.17	0	11	3	10	18	se.	J. W. Pulliam
Hannibal	Marion	534	34	62.6	− 1.0	88	23	39	12	33	6.25	+1.25	2.04	0	15	6	9	16	w.	U. S. Weather Bureau
Jefferson City	Cole	557	38	64.0	− 0,9	88	23	40	12	34	6.86	+2.31	0.85	0	17	14	6	11	s.	Miss Emma Swift
Kirksville	Adair	969	37	61.2	− 1.3	88	23	36	12	33	2.57	−2.64	0.60	0	9	16	3	12	w.	Prof. J. S. Stokes
Louisiana	Pike	469	32	64.1	+ 0.3	88	23	37	12	33	7.24	+2.68	1.32	0	18	15	4	12	w.	J. T. Farrell
Macon	Macon	875	27	62.2	− 1.7	90	23	37	12	36	7.85	+3.28	1.65	0	15	11	9	11	se.	W. C. Brown
Mexico	Audrain	800	37	64.6	+ 0.3	86	18	43	12	31	8.07	+3.31	1.50	0	16	16	1	14	w.	Mrs. Abbie Snoddy
St. Charles	St. Charles	456	38	64.4	+ 1.4	85	23†	39	12	32	9.33	+5.15	2.20	0	15	7	13	11	s.	L. C. Saeger
St. Louis (1)	St. Louis City	568	52	64.5	− 2.5	85	8	44	12	27	9.21	+4 97	2.17	0	15	10	7	14	s.	U. S. Weather Bureau
St. Louis (2)	....do.	578	14	63.9	− 2.2	85	8	43	12	26	9.82	+5.58	2.30	0	15	11	8	12	se.	St. Louis University
Shelbina	Shelby	779	33	....	......	..	..	..	..	..	5.37	+0.39	0.96	0	16	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	28	62.1	− 2.0	86	22	37	12	32	4.69	−0.26	1.47	0	11	9^{a}	15^{a}	6^{a}	n.	Frank Hall
Unionville	Putnam	1,062	33	61.1	− 1.3	88	23	37	12	34	3.05	−1.91	0.95	0	8	5	16	10	nw.	Geo. W. Davis
Warrenton	Warren	816	44	64.3	− 0.7	87	18†	39	12	33	6.62	+1.83	1.55	0	15	7	9	15	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	614	54	61.2	− 2.6	85	23	40	12	28	4.55	+0.30	1.11	0	12	3	15	13	s	U. S. Weather Bureau
Section means and	extremes	.....	..	63.0	− 1.2	91	23	34	12	41	6.47	+1.77	2.48	0	14	10	9	12	se.	
Southeast Lowlands.																				
Benton	Scott	340	1	....	......	..	..	..	..	..	10.74	......	1.75	0	17	..	..	..	......	E. R. Tirmenstein
Campbell	Dunklin	314	1	68.6	......	87	29	42	16	34	7.54	......	1.80	0	12	11	12	8	s.	Jeff. King
Caruthersville††	Pemiscot	265	30	71.0	+ 1.5	89	20†	48	16	29	6.31	+2.05	1.52	0	11	12	6	13	n.	John T. Markey
Doniphan	Ripley	344	22	67.4	+ 0.5	86	27†	39	16	37	8.71	+4.55	1.90	0	12	14	7	10	sw.	W.W. Martin
Jackson	Cape Girardeau	428	35	66.2	+ 0.4	85	28†	38	12	41	9.58	+5.22	2.05	0	16	4	7	20	s.	John G. Putz
Marble Hill	Bollinger	470	31	67.0	+ 1.3	85	20†	39	12	36	12.69	+8.46	2.56	0	12	11^{b}	9^{b}	9^{b}	w.	R.A. DeWitt
Morehouse	New Madrid	289	25	...	......	..	..	..	..	..	13.62	+9.46	2 80	0	13	13	13	5	sw.	John A. Spence
Parma	New Madrid	281	5	....	......	..	..	..	..	..	9.33	......	1.97	0	11	..	..	..	......	H. W. Kendall
Patton	Bollinger	605	17	....	......	..	..	..	..	..	8.51	+3.73	1.83	0	16	..	..	..	......	S. P. Presnell
Poplar Bluff	Butler	339	22	68.2	+ 0.2	88	29	39	16	41	13.10	+8.07	3.15	0	13	13	10	8	s.	J. H. Wolpers
Sikeston	Scott	318	21	68.4	− 0.2	88	25	43	12	32	13.34	+9.18	2.46	0	10	12	9	10	sw.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	358	51	68.0	− 0.4	85	21	49	12	26	10.18	+6.35	2.00	0	13	4	11	16	s.	U. S. Weather Bureau
Section means and	extremes	....	..	67.7	+ 0.3	88	25†	38	12	41	10.67	+6.88	3.15	0	13	10	10	11	s.	
Ozark Plateau.																				
Arcadia	Iron	926	45	63 0	− 1.6	86	8	37	12	39	8.36	+3.58	1.67	0	14	19	0	12	s.	Arcadia College
Aurora	Lawrence	1,370	36	67.2	+ 1.3	90	28	41	11	32	8.12	+2.66	2.28	0	8	14	10	7	sw.	W T. Troughton
Birchtree (near	Shannon	1,000	31	67.4	+ 2.2	85	18†	40	12	37	6.39	+2.08	1.85	0	8	14	7	10	nw.	V. H. Kirkendall
Bolivar	Polk	1,071	32	....	......	..	..	..	..	..	....	......	....	0	..	..	..	..	......	Southwest Baptist College
Dean ‡‡	McDonald	1,000	27	70.6^{a}	+ 4.8	94	28†	38	11	48	3.72	−2.24	1.11	0	9	20	5	6	s.	H. E. Dean
Eldon	Miller	934	30	63.5^{b}	− 1.0	88	23	40	11	38	8.35	+3.49	2.43	0	16	6^{b}	15^{b}	8^{b}	sw.	E. H. Shepherd
Farmington	St. Francois	918	15	64.0	+ 0.2	86	8	38	12	36	6.36	+0.86	1.61	0	15	7	14	10	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	22	65.1	− 0.2	88	18†	39	12	36	10.79	+6.25	3.69	0	9	8	11	12	s.	A. C. Leach
Goodland	Iron	1,000	32	65.4	+ 0.9	86	18†	35	12	43	11.73	+7.11	3.00	0	12	7	12	12	s.	F. M Adams
Greenville	Wayne	381	4	64.7^{c}	.....	86	26†	37	15	35	13.41	......	1.80	0	15	11	4	16	s.	Wm. P. Owens
Hailey	Barry	1,350	1	....	......	..	..	..	..	..	9.39	......	2.83	0	9	21	6	4	sw.	A. W. Madison
Hollister	Taney	735	39	67.5	+ 0.2	94	29	38	11†	50	9.10	+4.87	2.20	0	6	14	9	8	se.	Mrs. W. P. Chapman
Koshkonong	Oregon	958	25	68.4^{a}	+ 1.6	89	29	41	11	33	6.99	+2.15	1.34	0	11	16^{a}	2^{a}	12^{a}	se.	R. M. Hitt
Lebanon	Laclede	1,265	38	63.8	− 1.8	91	18	38	11†	47	7.13	+1.52	1.90	0	14	8^{a}	9^{a}	13^{a}	se.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	20	64.2	− 0.4	81	17	40	11	24	4.00	−1.08	1.65	0	6	16	7	8	ne.	C. S. Crow
Mountain Grove(near)	Wright	1,463	25	66.0	+ 2.1	87	29	40	16	34	7.25	+2.40	2.08	0	14	10	16	5	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	68.6	+ 2.4	89	28†	35	16	41	3.96	−2.11	1 25	0	9	24	4	3	se.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	26	65.6	+ 1.1	90	18	40	16	36	9.35	+4.34	1.57	0	14	10	10	11	w.	Prof. Elmo G. Harris
Seligman	Barry	1,542	24	66.8^{b}	+ 1.9	88	28†	36	11	32	7.08	+1.49	2.30	0	9	10^{b}	15^{b}	4^{b}	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,642	20	65.1	+ 1.0	88	29	38	16	36	6.00	+0.30	1.86	0	11	12	12	7	sw.	Ira H. Hailey
Springfield	Greene	1,324	38	65.6	+ 1 1	87	28	40	11	30	5.85	+0.30	2.22	0	14	15	12	4	s	U. S. Weather Bureau
Section means and	extremes	.....	..	65.9	+ 0.9	94	28†	35	12†	50	7.67	+2.11	3.69	0	11	13	9	9	s.	
Southwest Plain.																				
Amoret	Bates	831	19	66.8	+ 3.3	92	23	40	11†	37	4.89	+0.07	2.10	0	8	17	7	7	sw.	Andrew Rood
Appleton City	St. Clair	853	32	65 3	+ 0.2	90	23	39	11	29	8.45	+2.91	2.14	0	12	8	18	5	ne.	W. G Bigelow
Centerview	Johnson	872	39	62.3^{d}	− 3.0	86	24	38	11	28	3.17	−1.49	1.25	0	7	10^{d}	10^{d}	7^{d}	e.	E. A. Markey
Clinton	Henry	765	33	66.3^{e}	+ 1.1	91	23	42	11	34	7.44	+2.00	3.20	0	9	6	17	8	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	49	62.8	− 1.2	90	23	38	11	40	4.21	−0.60	0.93	0	12	7	3	21	e.	John H. Patterson
Lamar	Barton	980	39	66.1	+ 0.2	89	23	40	11	37	5.50	+0.04	2.64	0	9	17	8	6	sw.	Jesse A. Mann
Lamonte	Pettis	867	25	64.8	+ 0.1	91	23	38	11	37	9.51	+4.56	2.73	0	15	15	11	5	sw.	J. E. Wheeler
Marshall	Saline	779	37	66.4^{a}	+ 2.3	88	24	38	11†	36	8.69	+3.83	3.79	0	10	13^{b}	9^{b}	7^{b}	sw.	Dr. W. H. Black
Nevada	Vernon	862	33	65.2	+ 0 6	89	23	40	11	38	4.22	−1.50	2 02	0	5	15	7	9	sw.	George A. Kaupp
Warsaw	Benton	687	26	66.0	+ 0.2	90	23	40	16	36	8.21	+2.98	2.26	0	11	15	7	9	w.	Everett Martin
Section means and	extremes	.....	..	65.2	+ 0.4	92	23	38	11†	40	6.43	+1.28	3.79	0	10	12	10	9	sw.	
Northwest Plateau.																				
Bethany	Harrison	916	34	62.5	− 0.1	90	23	34	12	40	2.64	−2.34	1.80	0	9	6	16	9	nw.	M. H. Moulton
Chillicothe	Livingston	779	17	63.3	− 3.8	91	23	35	12	39	2.15	−2.56	0.68	0	13	15	11	5	ne.	Wm. J. Olenhouse
Conception	Nodaway	980	37	62.6	+ 0.6	90	23	39	12	35	2.30	−2.47	0.64	0	8	7	15	9	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	6	63.6^{g}	......	89	23	38	16	37	2.78	. ..	0.92	0	9	15^{e}	4^{e}	7^{e}	s.	Fred L Stiff
Grant City	Worth	1,134	22	61.4	− 0.7	89	23	39	4	32	2.22	−2.51	0.50	0	7	10	17	4	se.	W. P. Spillman
Kansas City	Jackson	963	37	64.3	− 0.5	89	23	41	11	31	5.46	+0.35	2.65	0	11	9	15	7	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	33	61.2	− 1.9	88	23	37	11	34	1.46	−3.75	0.28	0	10	14	3	14	se.	Linn Terry
King City	Gentry	1,095	1	....	......	..	..	..	..	..	3.27	.....	2.08	0	5	..	..	..	......	D. B. Oliver
Lexington	Lafayette	688	41	64.2	− 0.2	91	23	40	11	30	7.27	+2.21	3.80	0	13	7	16	8	s.	Edwin G. Loomis
Maryville	Nodaway	1,169	36	62.5	+ 1.4	89	23	39	4	34	1.88	−3.87	0.55	0	9	18	1	12	s	J. R. Brink
Oregon	Holt	1,048	70	64.8	+ 1.6	89	23	39	11	38	2.67	−2.19	1 22	0	7	15	11	5	se.	Mina Wright
St. Joseph	Buchanan	967	18	64.2	+ 0.2	88	23	41	11	30	2.37	−1.98	0.74	0	13	15	12	4	nw	U. S. Weather Bureau
Tarkio	Atchison	916	23	62.0	− 1.3	85	17†	40	12	34	1.81	−2.85	0.66	0	5	12	7	12	se.	Albert Volker
Trenton	Grundy	822	30	63.2	− 0.6	88	23	36	14	34	2.32	−3.02	0.77	0	11	12	9	10	ne.	W. H. Estes
Section means and	extremes	.....	..	63.1	− 0.4	91	23	34	12	40	2.90	−2.08	3.80	0	9	12	11	8	s.	
State means and	extremes	.....	..	64.6	0.0	94	28†	34	12	50	6.98	+2.28	3.80	0	12	11	10	10	s.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5. ‡ Indicates plus.

Daily Precipitation for May, 1927

Stations.	Drainage-basins.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Northeast Plain.																																	
Boonville‖	Missouri			.44		.08	1.00	.17	.60	1.05	.40			.12	T.				T.	1.05		.03	.20	.24	.35	.94		.15	.15			.42	7.39
Brunswick‖	Grand			.12		.10	.48		2.48	1.04			.55						.14	.15			.22	.10	.85	.68		.30					7.21
Clifton Hill	Chariton					.06	.64	1.63	.02					.35	T.				.35	T.	.02		.65	.15	1.42			1.35	.22		T.	.11	6.97
Columbia***	Missouri		.18	.12	T.	.23	1.17	.62	.21	.25				.34	T.			.02	.70		.01	T.	.21	.46	1.26			.44	T.	T.	T.	.46	6.68
Downing	Mississippi			.03			.23	.24	.54	.67				T.	T.				T.				.67	.43	.36			.14		.02			3.33
Fayette‖	Missouri			.22		.48	.88	.68		1.22				.32					.61				.57		.68			.64			.21		6.51
Fulton	do			.09		.10	1.32	.16	1.62	1.12	.76			.10	.02				.10	.56			.30	.19	.52	.85		.10	1.03		.03	.13	9.10
Gorin	Mississippi			.30			.07	.41		1.17				.15	.01				.09				.28	1.08	.88			.05					4.49
Hannibal***	do		.14		T.	.01	.23	.64	.60	.70				.32	T.			T.	.04		T.	T.	.50	.31	1.74			.32	.51	T.	.18	.01	6.25
Hermann‖	Missouri			.11	.02		.14	1.02	.30	.34	.14			.03	.30				.03	.38			.30	.32	.58	1.30			1.95			.90	8.16
Jefferson City‖	do			.24		.05	.73	.27	.32	.60	.85			.10	.17			.10		.51	T.	.05	.35		.75	.85			.47			.45	6.86
Kirksville	Mississippi			.15				.54	.07	.60				.20					.30				.48	.17				.06					2.57
Louisiana	do			.30		.05	.20	1.32	.16	.70				.16	.17				.05	.07		.07	.41	1.24	1.32	.20		.48		.27		.07	7.24
Macon ‖	Chariton			1.34		.03	.20		1.65	1.10				.20	.47				.04	.06			.06	.45	.80	1.10		.05			.30		7.85
Mexico ‖	Mississippi			.35			.60	.30	.82	.92	.66			.10	.20				.11	.05			.25	.13	.65	1.50		.05	1.38				8.07
Milan‖	Grand		.28				.15		.27	.14			.08						T.				.05	.20		1.05		.10					2.32
Pacific‖	Meramec						.25	1.18	.68	.18	1.29				.12				.05	.20			.12	.10	1.09	1.30		.09	.18			2.70	9.53
St. Charles	Missouri			.08		T.	.52	.97	1.67					1.12	.16			.02	.10	.68		.02	.38		2.20			.20	.34			.87	9.33
St. Louis (1)***	Mississippi			T		.05	.76	1.04		1.08				.23	T.			.08	.95	.01		T.	.19	.02	2.15			.14	.36	T.	1.01	1.14	9.21
St. Louis (2)*	do					.06	.74	.95		1.57				.23	.01			.32	.84	T.		T.	.18	03	2.05			.22	.32		1.10	1.20	9.82
Shelbina ‖	do			.61		.02	.26		.96	.08	32			.24		T.		.02	.01	.04			.06	.17	.84	.73		.13	.88		T.	T.	5.37
Steffenville	do			.45			.15	.25	.20	.55				.40	T.			.45				.35	.07	1.47			.35					T.	4.69
Union‖	Meramec						.42	1.03	.75	.60	.20			.01	.04				.04	.56			.20	.14	1.58	.94			1.12			3.20	10.83
Unionville ‖	Chariton			T.					.40	.75				.10					.15				.30	.25	.95			.15					3.05
Warrenton	Mississippi			.05		.03	.88		.63	.84				.25	T.				.07	.40		.05	.70	T.	1.55	.10		.17	.55			.35	6.62
Keokuk, Ia.***	do		.43				.02	.33	.35	.67		T.		.37	.06				.28	T.	T.	T.	.55	.59	.80			.10		T.			4.55
Southeast Lowlands																																	
Benton	Mississippi			.02	.64	1.62	.40			.85	.94			.78				.01		.79			1.52	.01	.19	.83			.12	.10	.17	1.75	10.74
Campbell‖	St. Francis				.55		.78	.50			1.80				.20				.01	.82			.30	1.50		.44			.44			.20	7.54
Cape Girardeau‖	Mississippi			.02	.93		.57	1.18			1.23				1.43					.48			.11	.98	.87	.83			.11	1.28		.58	10.60
Caruthersville ‖	do				.21		1.31	.05		1.52					.14					.93			.34			.55			.87	.11		.28	6.31
Dexter‖	St. Francis				1.36	2.38	.44				1.64				.40					1.41		.10	.34			.65			.04	.07	.78	.92	10.53
Doniphan	Black			1.27		.80	.60	.05		1.90			.12							1.07		T.	1.12		.70				.25	.45		.38	8.71
Jackson	Mississippi			.07	.30	.84	1.26			2.05				.65	.47			.03		.48			.60	T.	1.35	.45			.03	.25	.17	.58	9.58
Marble Hill	Mississippi			.92		1.32	1.72			1.05				.70						.72			.89		1.52	.53				.16	.60	2.56	12.69
Morehouse	do			.80	1.79	2.80	.75				1.50			1.11				.02		.77			1.20			.81			.03	.13		1.91	13.62
New Madrid‖	do				.83	.03	.66	.45			1.10				.62				.02	1.20	.02			2.55		.75			.10	.03		.60	8.96
Parma	St. Francis			1.18		.50	.70			1.97				.18					.97			1.37		.78					.16		.48	1.04	9.33
Patton	Mississippi	.10		.02		.91	.47	.01		1.30				.08			.05			.32			.68		1.83	.51			.07	.43	.07	1.66	8.51
Poplar Bluff ‖	Black			1.43		1.60	.54			2.53				.33				.04	.69			.25	1.14		1.01			.33	T.		.06	3.15	13.10
Sikeston‖	Mississippi				2.02	T.	1.95	.33	T.		1.44				2.46					.71			.04	1.13		1.76			T.			1.50	13.34
Cairo, Ill.***	do			.75	T.	1.45	.49	T.		1.24				.80	T.			T.	T.	.67		T.	1.87		.86			.13	.05	.60	.26	1.01	10.18
Ozark Plateau.																																	
Arcadia ‖	St. Francis				.18		1.01	.65	.05		.41				.40				.40	.53			.23	.45	.97	1.05			.36		T.	1.67	8.36
Aurora	Neosho			T.		2.28	.43			2.28										.67		T.	.15		2.26			.03				.07	8.12
Birchtree (near)	Black					1.85	.23		.54											.75			.88		1.24				.50			.40	6.39
Bolivar	Osage																																...
Caplinger Mills	Osage			T.	.15	1.14	.63	.13	.02	.04				.04						.08		T.	.14	T.	1 81			.04		T.	17	4.62	9.01
Dean	Neosho					.70	.16		.05	.22										1.11		T.	.06		.95						.05	.42	3.72
Eldon‖	Missouri			.41			2.43	.43	.16	.59	.87			.02					.02	.88		.03	.33		.85	.75			.19	.04		.35	8.35
Farmington	St. Francis			.12		.83	.67	.05		.58				.16	T.			.07		.41			.37		1.61	.60		.03	.30		.09	.47	6.36
Fredericktown‖	do						.92	.45			.75								.05	1.38				.35	.80	1.15			.22			.58	6.65
Galena‖	White					1.60	1.40	.18		1.65	.48									.23			.40		.10	80							6.84
Gano	Meramec				T.	.81	.50			1.40				T.				.61		1.24		T.	.53		3.69					T.	.86	1.15	10.79
Goodland	Black					1 15	1.00	.02		1.00				.34				.26		.98			.68		3.00				.64		1.66	1.00	11.73
Greenville	St. Francis			.30	.26	1.70	.90	.10		.90				1.80	.20			.10		1.40					3.30					T.	.65	1.80	13.41
Hailey	White				.01	2.83	.30			1.80										1.35			1.25		1.25	.25						.35	9.39
Hollister	do					1.60	.50			2.20										1.90			1.80		1.10								9.10
Jerome ‖	Gasconade																																....
Koshkonong	Black			1.34		1.26	.20			.95				T.	.05			.04		.82			.93		.89				.25			.26	6.99
Lebanon ‖	Osage			T.		.03	.90	.40		.35	.23			.13	.08					.25			.55	.26	.15	1.90		T.		.97		.93	7.13
Lockwood	do			T.		1.65	.44		.20	T													.21		1.40							.10	4.00
Mountain Grove‖	White			.02		2.08	.48	.03		.90				.02				.25		.65		.08	.63	.05	1.88				.16	.02			7.25
Neosho	Neosho			.04		.10		.15	.15	.14										1.05					1.25			1.04				.04	3.96
Owensville ‖	Gasconade				.05		.87	.62	.52	.72	.42									1.12		.20		.40	.50	1.20		.80				1.05	8.47
Rolla ‖	Meramec				.06	1.22	.64		.76	.65				.18					1.34			.32	.20	.92	1.57			.11			.28	1.10	9.35
Seligman	Neosho			T		.97	.20	.03		2.30										1.48			.29		1.49						.08	.24	7 08
Seymour (near)	White		T.	T	T.	1.86	.31	T.	T.	1.32				.08				.06		.30		.11	.77		1.10			.06		T.	T.	.03	6.00
Springfield***	do			.01		1.07	.51	T.	.90	1.32				.04				T.	.04	.03		.03	.19	.38	1.30			.01				.02	5.85
Steelville‖	Meramec					.05	.25	.95		.78	.75				.05				.06	.64			.34	.11	1.17	1.74			.99			.26	8.14
Stover ‖	Missouri					.62	2.75		.86	.40				.25	.11					.91			.81	.51	1.33	.86		.09				.11	9.61
Tuscumbia ‖	Osage			.06	T.	.11	2.39	.03		.34	1.66			.03	.12			T.	T.	.75	.02		.26		.78	.67			.30			.13	7.65
Willow Sprgs. ‖ (near)	White				.07	.08	2.27	.12		.05	1.27				.01			.13		.92			.87	.01		1.34			.26				7.40
Southwest Plain.																																	
Amoret	Osage				.13	.43	1.73	.20						.04									.13		2.10							.13	4.89
Appleton City	do				.02	.44	2.14	.23	.88					.09					.02			T.	.35	1.41	1.79			.05			T.	1.03	8.45
Centerview	Missouri		T.			.25	1.25	1.00	.28	T.				.15					.02				.22								T.	T.	3.17
Clinton	Osage		T.		T.	.05	3.20	.62	.46					.30									.17		1.80			.07			T.	.77	7.44
Concordia‖	Missouri			.31		.31	1.10		1.84	.35				.40					.26					.27	2.03	.38		.16					7.41
Harrisonville‖	Osage					.23	.88	.51	.93					.35	.15								.15	'01	.57	.27		.05				.11	4.21
Joplin*	Neosho					.58	.30		.45										.08	.13		T.	.01	.06	.55			T.				.08	2.24
Lamar ‖	do					2.64	.63	.05	.05	.45				.17	T.						.03		.10			1.38							5.50
Lamonte	Missouri		.01	.40		.72	1.25	2.55	.50	.01				.30					.40				.21		2.73			.10	.01		.01	.31	9.51
Marshall	do					.18	.84	3.79		1.12				.13					.43	.13	T.		.43		1.32			.32			T.		8.69
Nevada	Osage					.60			.28											T.					1.21						.11	2.02	4.22
Osceola‖	do					.76	1.22		.14	.51				.04	.10								.62		.82	1.14		.08	.61			.22	6.26
Warsaw ‖	do					1.00	1.20	.35	.50	.25				.15						.40			.75		2.26			.05			T.	1.30	8.21
Waverly ‖	Missouri			.19		.08	.89		2.75	.20				.35	.05			T.	T.	.40	T.		.30	.15	1.32	.41		.24		T.	T.	.06	7.39
Northwest Plateau.																																	
Albany‖	Grand																																....
Bethany	do			.05	T.	T.	.25	.08	.05	T.				T.	T.		T.		.20		T.		.08	.03	1.80	T.		.10		T.			2.64
Chillicothe ‖	do			.03		.04	.25	T.	.68	.16	T.			.20	.05				.07	T.			.06	.08	.11	.28		.14	T.				2.15
Conception	Missouri		.53		T.		.18	.25	T.					.04					.50		T.		.04		.64		.12						2.30
Edgerton	do			T.	.92	.06	.35	.39	.01					.24					T.		T.		T.		.68		.01	.12					2.78
Gallatin ‖	Grand																																....
Grant City	do		.37				.32	.50	.14										.26		T.				.50			.13					2.22
Kansas City***	Missouri		.02	T.	T.	.31	.54	2.57	.08				.38	.53					T.		T.		.05	.04	.76		T.	.18			T.		5.46
Kidder ‖	Grand					.11	.18		.26					.28	T				.26				.02	.14	.14	.04		.03					1.46
King City	Missouri						.17	.75	.05					.22											2.08								3.27
Lexington ‖	do			.10		.14	.70		3.80	.15				.52	.05				.04				.27	.03	'81	.36		.30					7.27
Maryville ‖	do					.02	.32		.22	.02				.03						.45				.11	.55	T.		.16					1.88
Oregon	do		T.				14	.09						.38					1.22		T.		.05		.71			.08					2.67
St. Joseph***	do				.03	.03	.11	.14	.05				.56	.04					.74		T.		.04	.03	.52		.02	.06					2.37
Tarkio	do						.35	.66						.20					.15		T.				.45								1.81
Trenton	Grand		.74		.02		.17	.08	.09					.03					.05	T.	T.		.13	.03	.77			.21	T.	T.			2.32

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch.

*** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for May, 1927

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	75	82	74	65	66	72	70	81	76	54	60	73	71	71	68	76	84	86	70	85	84	75	91	87	80	77	81	74	60	76	81	75.0
	Minimum	47	51	56	43	49	52	53	58	65	46	41	40	46	51	48	43	44	61	52	52	60	65	66	65	56	57	59	54	55	56	57	53.2
Columbia	Maximum	74	82	71	62	61	69	65	83	74	56	59	68	72	69	64	71	84	84	64	83	83	78	88	73	79	74	80	67	61	72	72	72.3
	Minimum	45	55	55	46	53	52	57	65	56	46	41	39	52	50	47	41	57	55	51	57	68	65	66	63	54	57	56	59	54	57	62	54.2
Fayette §§	Maximum	74	63	70	66	61	62	70	84	74	69	61	72	77	72	66	76	83	85	72	83	84	72	89	75	83	81	80	71	62	73	77	73.8
	Minimum	42	49	53	40	40	50	48	52	61	45	37	34	36	47	44	37	45	59	50	50	57	62	63	62	50	58	53	54	53	54	56	49.7
Hannibal	Maximum	71	82	72	63	67	68	64	81	74	61	52	67	71	65	63	71	80	84	65	78	84	76	88	72	78	71	63	68	62	72	77	71.3
	Minimum	47	56	54	46	52	53	56	60	61	47	42	39	52	51	46	41	58	51	49	56	68	66	65	62	54	58	53	52	54	55	63	53.8
Jefferson City §§	Maximum	75	83	68	68	63	66	71	82	75	60	62	74	75	70	65	75	83	87	64	83	82	78	88	75	83	85	80	73	67	73	67	74.2
	Minimum	46	53	56	47	51	52	52	57	61	49	42	40	51	51	48	45	49	58	53	53	59	64	66	64	55	58	59	58	56	56	57	53.7
Kirksville	Maximum	72	79	72	64	65	68	62	77	74	67	51	69	73	66	64	73	82	82	65	81	82	73	88	86	76	73	67	66	63	72	78	71.9
	Minimum	44	51	49	41	45	40	51	58	62	45	43	36	51	46	43	41	55	50	46	52	65	69	64	60	53	51	51	51	48	52	54	50.5
Louisiana	Maximum	74	84	76	71	68	72	72	80	78	72	56	68	73	65	65	72	82	87	79	80	85	77	88	87	78	80	78	70	65	65	78	75.0
	Minimum	43	51	56	46	46	48	52	58	60	50	45	37	46	50	46	42	52	76	48	54	64	66	68	64	52	58	52	52	54	56	58	53.2
Macon §§	Maximum	74	83	72	65	68	72	70	80	75	52	54	73	75	68	65	74	83	85	70	83	84	75	90	77	78	77	70	74	61	76	82	73.7
	Minimum	45	52	50	41	45	50	51	57	62	45	42	37	43	47	42	40	51	59	46	50	52	64	65	63	53	54	52	52	50	54	55	50.6
Mexico §§	Maximum	74	84	73	65	61	68	70	84	75	57	59	69	75	69	64	74	84	86	64	84	85	79	80	72	81	76	79	66	63	72	76	73.2
	Minimum	49	55	58	49	53	50	54	58	65	52	48	43	53	54	49	48	55	59	53	53	62	68	69	67	58	59	59	59	55	59	60	55.9
St. Louis (†)	Maximum	69	81	73	70	61	67	70	85	78	64	56	68	72	66	57	71	79	82	63	78	82	77	84	77	82	75	66	83	68	71	69	72.4
	Minimum	49	54	61	53	56	53	56	62	60	51	48	44	54	53	50	49	57	60	52	56	68	68	67	64	63	58	53	56	59	60	60	56.6
Unionville	Maximum	70	80	72	62	67	70	65	75	74	66	52	70	72	62	65	74	84	80	70	80	84	76	88	85	78	75	73	66	60	76	82	72.7
	Minimum	42	52	45	40	42	47	48	56	62	44	42	37	52	46	40	44	50	52	44	52	65	64	62	60	52	48	50	52	46	50	50	49.5
Warrenton	Maximum	73	83	79	69	64	69	68	84	81	71	55	67	73	68	63	71	85	87	81	81	83	76	87	81	82	76	72	77	68	71	73	74.8
	Minimum	44	50	56	44	50	50	53	59	59	50	44	39	50	49	45	44	53	77	49	54	64	65	67	62	56	57	55	55	55	56	57	53.8
Southeast Lowlands.																																	
Campbell	Maximum	71	79	77	75	68	73	79	84	80	75	70	73	75	70	73	73	78	82	80	85	84	79	82	85	83	86	84	82	87	84	82	78.6
	Minimum	45	45	60	53	55	58	60	69	53	56	50	43	56	51	52	42	53	68	61	59	66	66	67	71	62	62	61	60	70	70	64	58.6
Caruthersville	Maximum	70	81	81	75	75	72	82	87	85	79	72	75	78	74	70	72	79	85	85	89	86	88	84	88	85	85	88	84	89	86	86	81.1
	Minimum	52	53	64	58	59	58	62	70	70	61	51	52	55	54	49	48	57	56	60	60	65	67	67	67	64	67	64	64	71	72	68	60.8
Doniphan	Maximum	73	79	77	77	67	68	77	85	78	75	70	72	77	76	70	76	80	85	80	84	81	80	84	84	85	85	86	84	86	79	81	78.7
	Minimum	44	45	57	49	54	57	50	68	60	52	46	46	54	47	48	39	47	48	62	58	67	64	68	66	68	60	62	60	65	65	66	56.2
Jackson	Maximum	70	78	75	76	71	67	77	83	82	76	71	79	77	72	69	72	74	81	80	83	84	84	79	83	82	82	77	85	85	85	72	77.8
	Minimum	40	42	56	50	52	52	58	67	61	56	43	38	54	48	43	39	43	63	59	55	65	67	67	64	58	51	56	55	65	61	62	54.5
Poplar Bluff	Maximum	74	82	75	79	69	75	78	83	79	77	72	76	77	75	77	80	79	84	84	85	82	77	83	84	86	87	83	82	88	84	78	79.8
	Minimum	44	42	58	49	57	56	58	65	62	53	49	41	55	49	47	39	46	66	60	57	63	67	67	66	61	58	60	58	66	67	65	56.5
Sikeston	Maximum	77	76	78	76	67	73	78	83	81	71	66	74	75	73	67	75	73	82	79	83	84	75	81	87	88	87	82	85	87	80	82	78.2
	Minimum	45	47	60	53	58	57	59	68	62	53	51	43	56	51	49	45	52	66	61	57	67	69	67	72	62	69	61	59	69	68	62	58.6
Cairo, Ill.	Maximum	67	77	77	71	67	70	78	83	81	75	63	69	72	71	66	70	72	81	75	84	85	76	80	83	81	80	78	84	85	78	80	76.1
	Minimum	52	55	58	56	57	57	61	71	60	57	52	49	58	54	52	50	56	70	60	59	70	68	68	65	64	64	59	58	68	66	64	59.9
Ozark Plateau.																																	
Arcadia §§	Maximum	76	81	74	73	63	60	70	86	72	68	60	71	74	68	59	72	79	83	68	84	85	70	70	69	83	77	77	74	80	70	64	72.9
	Minimum	38	42	54	47	49	51	53	58	69	54	46	37	44	51	49	40	44	52	60	55	57	65	66	63	55	53	57	56	60	59	58	53.0
Birchtree	Maximum	72	77	80	75	69	71	78	82	75	78	66	77	77	78	68	75	83	85	79	82	77	77	82	82	83	85	83	85	82	79	77	78.0
	Minimum	50	46	56	46	52	56	58	59	63	53	45	40	50	52	46	42	48	65	65	68	67	64	72	67	68	60	61	60	62	60	64	56.9
Eldon §§	Maximum	75	79	71	69	67	67	70	82	75	58	64	77	74	70	65	74	85	87	64	83	87	81	88	76	84	..	80	78	..	70	66	[b]74.7
	Minimum	44	51	54	45	47	53	52	58	64	49	40	41	45	49	46	42	47	55	54	54	59	63	63	64	55	..	57	57	..	58	50	[b]52.3
Farmington	Maximum	76	82	74	73	63	62	70	86	78	68	59	72	74	68	62	72	79	83	68	84	85	78	74	72	82	78	77	74	80	72	67	73.9
	Minimum	40	46	55	50	49	52	52	58	58	54	43	38	48	48	47	43	56	61	57	54	64	65	65	63	58	57	56	62	62	58	61	54.2
Hollister	Maximum	81	81	80	82	70	80	72	74	84	72	71	80	78	78	76	78	88	89	80	84	82	85	90	88	89	90	90	93	94	83	88	82.3
	Minimum	44	46	54	40	45	50	53	52	50	49	38	50	50	50	48	40	38	60	50	55	64	62	57	56	59	65	64	66	58	58	62	52.7
Koshkonong	Maximum	70	..	81	76	68	70	74	82	76	71	68	78	77	74	68	75	85	86	84	81	84	86	84	83	84	88	83	83	89	81	81	[a]79.1
	Minimum	47	..	48	51	54	58	60	68	60	53	41	45	56	51	49	46	52	67	62	59	66	64	69	64	59	62	62	61	70	62	64	[a]57.7
Lebanon §§	Maximum	77	80	73	70	66	71	74	83	76	60	64	77	74	71	64	73	87	91	71	84	79	80	87	78	80	82	86	88	89	70	66	76.5
	Minimum	43	49	52	41	41	51	54	58	59	46	38	38	44	47	44	39	40	56	55	54	59	61	63	63	52	53	57	56	59	54	54	51.0
Mountain Grove	Maximum	73	74	81	75	65	75	69	80	74	71	68	78	75	70	64	74	84	85	79	79	77	78	85	80	81	86	83	82	87	80	76	77.0
	Minimum	41	48	57	45	55	56	55	65	63	47	41	44	52	47	48	40	50	66	61	58	65	62	66	62	54	58	60	58	62	56	63	55.0
Neosho	Maximum	80	83	83	75	75	84	83	75	80	75	70	82	82	82	73	76	88	85	87	82	83	87	86	84	87	87	87	89	89	84	82	82.1
	Minimum	42	48	55	38	56	55	64	64	63	45	36	43	55	44	42	35	55	70	58	64	61	62	71	63	51	55	69	67	64	54	62	55.2
Rolla	Maximum	75	81	75	68	61	67	74	83	79	74	63	76	73	70	68	74	88	90	88	83	82	80	88	88	81	84	81	81	83	70	65	77.2
	Minimum	43	51	54	45	51	51	56	62	58	48	41	41	52	49	45	40	52	58	54	56	67	63	70	63	56	58	57	60	60	54	60	54.0
Springfield	Maximum	72	76	74	68	62	72	71	79	74	57	63	74	72	68	62	71	84	85	75	81	73	81	85	75	79	83	84	87	87	68	77	74.8
	Minimum	49	53	56	49	52	57	59	59	57	47	40	52	54	51	49	46	56	63	60	62	64	62	63	62	58	63	64	66	57	55	64	56.4
Southwest Plain.																																	
Amoret	Maximum	78	76	82	68	69	68	68	79	73	60	68	76	77	79	80	77	88	88	76	90	88	80	92	91	82	83	88	84	72	62	72	77.9
	Minimum	59	57	56	42	50	52	57	67	60	42	40	50	54	58	58	40	52	67	55	62	62	63	68	64	55	57	66	58	53	46	54	55.6
Appleton City	Maximum	75	78	73	65	64	66	67	79	72	61	67	76	76	73	67	74	84	84	75	85	82	80	90	79	82	82	87	79	68	65	66	74.9
	Minimum	46	53	57	46	52	53	57	61	61	45	39	48	55	50	47	46	55	72	54	62	65	63	71	62	56	60	65	59	57	49	61	55.7
Centerview	Maximum	74	72	67	66	63	66	65	80	72	64	66	71	70	57	66	64	71	82	68	78	75	75	84	86	..	..	..	..	64	64	72	[d]70.4
	Minimum	47	52	54	46	53	53	46	62	62	44	38	43	55	48	46	45	58	68	52	58	67	64	69	70	..	..	..	..	52	55	57	[d]54.2
Clinton	Maximum	78	80	73	70	66	66	67	80	75	74	69	77	78	71	68	76	78	86	82	83	84	81	91	85	84	84	89	86	70	71	69	77.1
	Minimum	50	46	58	45	52	52	57	64	64	45	42	46	55	58	46	43	46	70	54	54	65	64	70	70	56	60	61	60	..	..	..	[c]55.5
Harrisonville §§	Maximum	73	77	75	60	63	63	69	76	70	51	78	70	77	73	68	74	84	87	68	85	80	78	90	77	82	76	88	71	60	69	72	73.7
	Minimum	46	52	55	43	48	51	53	56	62	42	38	40	47	47	44	46	49	57	52	53	62	62	62	63	56	58	60	53	54	47	54	52.0
Lamar §§	Maximum	77	79	70	72	68	72	77	78	73	58	67	76	78	72	66	73	85	85	76	86	82	83	89	76	82	87	86	84	85	65	72	76.7
	Minimum	49	53	55	45	50	55	56	64	63	46	40	45	52	50	50	42	48	63	57	57	66	64	66	68	56	60	63	69	62	52	56	55.5
Lamonte	Maximum	79	84	74	66	64	68	66	82	75	59	65	73	75	75	74	77	87	86	86	86	84	81	91	78	81	78	89	82	67	72	75	76.7
	Minimum	45	53	55	42	52	52	55	64	57	42	38	42	54	52	45	40	56	62	52	52	55	63	63	63	54	56	59	55	56	50	59	53.0
Marshall	Maximum	71	85	78	81	65	71	71	..	74	71	63	73	76	67	65	78	86	87	68	87	86	83	86	88	85	79	86	82	70	75	80	[a]77.2
	Minimum	57	65	61	60	51	59	51	..	61	45	38	39	42	45	38	42	57	65	55	65	66	65	66	63	65	59	58	56	56	54	60	[a]55.5
Nevada	Maximum	74	77	71	70	64	68	75	73	72	64	67	77	77	73	68	72	84	84	81	85	81	82	89	81	80	84	88	85	76	63	67	75.9
	Minimum	47	54	57	45	52	44	56	49	64	46	40	50	55	51	49	42	46	61	45	60	61	63	71	63	58	60	69	61	57	49	60	54.4
Warsaw	Maximum	78	81	77	69	68	69	70	81	75	75	66	75	76	72	71	76	87	89	83	86	83	81	90	85	83	81	87	78	71	72	69	77.5
	Minimum	45	54	55	43	52	53	57	55	65	47	41	46	56	50	47	40	66	53	50	60	63	64	70	64	54	56	62	61	54	49	62	54.6
Northwest Plateau.																																	
Chillicothe §§	Maximum	74	80	72	66	66	68	71	77	72	52	72	74	75	69	68	76	85	86	72	86	87	75	91	81	79	77	80	68	72	77	82	75.2
	Minimum	44	47	49	42	48	51	52	56	63	44	40	35	48	47	45	38	48	65	48	51	58	64	65	60	52	54	65	53	50	55	55	51.4
Grant City	Maximum	73	78	68	57	65	67	64	76	73	56	60	72	74	65	62	74	83	78	64	77	81	76	89	81	77	72	83	70	57	76	79	71.8
	Minimum	45	53	50	39	40	51	52	58	56	43	41	40	51	48	43	44	55	55	50	54	66	63	63	59	55	52	56	52	47	51	52	51.1
Kansas City	Maximum	75	77	74	64	60	63	67	78	70	52	65	71	73	71	65	74	85	88	66	85	81	76	89	78	80	76	88	69	58	70	77	73.1
	Minimum	50	57	54	49	51	53	58	64	51	44	41	47	56	52	50	54	59	57	52	58	68	64	67	59	64	62	61	52	53	54	61	55.5
Kidder §§	Maximum	71	78	70	61	65	65	71	76	70	50	61	71	73	68	66	74	83	82	69	83	82	75	88	79	77	75	86	63	57	75	80	72.4
	Minimum	44	50	47	40	46	48	50	54	60	42	37	39	46	46	43	43	49	60	48	52	56	62	62	57	55	53	56	50	50	49	52	49.9
Lexington §§	Maximum	74	73	73	68	65	66	65	77	74	55	65	70	76	71	67	75	83	86	68	83	83	76	91	85	80	75	87	70	69	68	70	73.8
	Minimum	47	55	55	44	52	52	55	63	63	45	40	44	51	50	46	45	57	64	52	56	67	64	68	64	55	56	59	53	56	56	59	54.6
Maryville	Maximum	74	80	80	63	67	67	64	76	75	53	64	73	75	70	68	75	85	84	66	79	83	79	89	81	79	75	84	67	57	77	82	73.9
	Minimum	48	55	48	39	45	51	53	60	53	43	40	40	50	47	42	41	55	55	51	55	67	63	61	57	56	54	57	50	48	48	52	51.1
Oregon	Maximum	77	80	74	66	74	72	71	86	75	55	67	80	75	73	69	77	87	85	75	81	83	78	89	80	79	83	85	77	61	82	86	76.8
	Minimum	47	57	50	42	47	52	55	64	53	44	39	42	50	46	45	47	57	58	52	57	68	64	69	58	57	55	61	51	51	47	55	52.9
St. Joseph	Maximum	75	79	71	65	68	67	69	78	70	49	64	74	74	71	67	76	85	82	70	83	82	76	88	78	78	79	86	66	59	76	82	73.8
	Minimum	48	59	52	45	49	53	57	64	49	44	41	44	52	51	49	48	58	54	53	58	69	66	71	59	61	59	58	53	54	53	58	54.5
Trenton	Maximum	69	77	70	64	62	67	64	76	71	58	59	74	72	65	62	68	78	81	65	76	84	75	88	80	76	77	79	75	62	76	81	72.0
	Minimum	53	62	52	50	44	56	54	59	52	46	42	38	46	36	42	52	60	60	59	60	62	65	68	60	64	66	57	54	50	54	60	54.3

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 6-30-27—890.

Continued from Page 18.

and 16th, and the 26th were about all of the fairly outdoor workable days. The heaviest local monthly amount was 13.62 inches, as compared with 16.10 inches and 15.98 inches, respectively, for the same month in 1896 and 1915.

MISCELLANEOUS PHENOMENA.

Earthquakes.—Slight tremor at about 2.30 a. m. at Poplar Bluff, and Campbell.

Frost, light.—Locally on the 11th, general in central and northwest on the 12th.

Hail.—Conception and Seymour 1st; Campbell and Cairo 5th; Springfield 6th; St. Louis, Marshall, and Kansas City 7th; Downing, Fulton, Aurora, and Springfield 8th; St. Louis, Eldon. Farmington, Hollister, and Seymour 9th; Morehouse and Arcadia 10th; Clifton Hill, Macon, Sikeston, Greenville, Columbia, and Kansas City 13th; St. Louis, Marshall, and Conception 18th; Fulton and Hollister 19th; Centerview 22d; Brunswick, Clifton Hill, and Louisiana 23d; Clifton Hill 27th; Fulton, St. Louis, and Lebanon, 28th; Caruthersville, Morehouse. Parma, Arcadia, Gano, Greenville, Lebanon, and Hannibal 30th; Olden and Lamonte 31st.

Thunderstorms, the resulting feature of low pressure areas, were more or less general on 22 days.

DAMAGING HAIL AND WINDSTORMS.

13th.—A hail storm of considerable severity passed across Scott County in the vicinity of Commerce. The path was about 10 miles long and 3 miles wide, on the average. Stones ranged in size from a hickory nut to hen eggs. Truck, peach and apple orchards were damaged to the amount of $5,000. Light hail fell at Sikeston, and at Charleston later in the day.

28th.—Severe hail fell in St. Louis. The stones were large, one measuring two and three-fourths inches in diameter. Extensive damage resulted, especially to windows, greenhouses, and automobile tops. According to the press, the storm lasted about twelve minutes, but the damage was severe, Shaw's Garden alone suffering damage of about $750,000.

30th.—Hail fell at many points on this date, and especially was it widely distributed in the southeast quarter of the State. During the early night (30th) a severe wind and hail storm swept Scott County, having Sikeston more or less as a center. The wind and hail caused about $70,000 damage in the town. In the country the damaged area was 10 miles long by five miles wide, and the damage to corn, cotton, and other crops has been estimated as high as $400,000. The storm occurred about 7.30 p. m.

About the same time, 7.40 to 7.56 p. m. (30th) a damaging hail storm occurred in Marion County. "The storm approached with a rather loud roar and hail fell at Hannibal. The storm was damaging to orchards and gardens from about Wither's Mills P. O. to Fette's orchards which are on the northern limits of the city, a path about 5 miles long by 1-2 mile wide. The stones varied from 1-2 inch to 1 inch in size; the damage was estimated to be $2,500 to $3,000." (O. I. C. Hannibal.)

A severe and tornado-like wind occurred at Centerview, Johnson County on the 9th, with clouds of dust, but doing only a small amount of damage. On the 10th, a severe wind, something like a tornado, swept over Morehouse and vicinity, New Madrid County. Small houses and some barns were wrecked, and other damage done, to the amount of $10,000.

As a part of the general storm of the 8th, a damaging local wind, with hail, occurred in Douglas County, at 10 p. m. The storm, probably a tornado, travelled from southwest toward northeast, passing a little west and north of Ava. The path was one-fourth to one-half mile wide, and about 20 miles long. Five buildings were completely destroyed and four others damaged. Two men, Twin Turner and Jason Rowe, were killed, and thirty other persons injured. The amount of damage sustained was put at $9,000 by the wind, and about $200 by hail to crops.

TORNADOES IN MISSOURI DURING MAY, 1927.

Violent local storms, in unusual numbers, occurred during May, 1927, in Missouri. Tornadoes, at least five, causing loss of life or doing heavy damage to property, were reported on the 8th, 9th, 18th, 24th and 27th. The tornadoes of the 8th, and the 9th, were unusually severe, and especially the one of the 9th, known now as "The Poplar Bluff Tornado," which, for amount of destruction of life and property, has no equal in the annals of Missouri Climatology.

Tornado of May 8: Originated or began in Missouri in the neighborhood of Macks Creek, southwestern part of Camden County. Travelled northeast to Audrain County near the northwest corner of Montgomery County, where it dissipated or left the ground. Nearly a straight line path of about 110 miles, and from 200 to 400 yards wide. It followed the ground most of the way but lifted here and there, and especially as it crossed Cole County, where only small damage was done. It passed near Eldon, Miller County, at 8.40 p. m., having left Macks Creek at 8 p. m. In Camden County it travelled through a rather sparsely settled country, but hurt three persons, and swept over six homes and as many barns, doing damage to the amount of $8,000, and destroying fruit to the amount of $3,000. In Miller County four persons were killed, 30 injured, and property consisting of buildings, household effects, livestock, etc., were damaged to about $120,000 worth. This seems to be quite a favorite ground for tornadoes. During forty seven years four tornadoes have crossed Miller County from southwest toward northeast and all within a path of seven or eight miles wide within the neighborhood of Eldon. The first on the record was on April 18, 1880; the second on May 19, 1896; the third on April 19, 1916, and the fourth on May 8, 1927. And it might be of some importance to note that the days of occurrence are well grouped.

The tornado crossed the Missouri River into Boone County a short distance south of Claysville, and from thence it made a beeline northeast over Callaway County to Audrain County. From where it touched Boone County to where it left the ground, the path was followed and inspected by the writer. From the Missouri River onward about five miles the damage was confined to tree tops, which in most instances were twisted off and split open. Just about four miles west of Bloomfields, Callaway County, it fairly hugged and swept the ground with terrible force, and from there on for about thirty miles it made a clean cut path averaging about 300 yards wide, killing six persons, hurting badly 17, and destroying property to the value of around $168,000. Hail fell at several points along the path but the stones were small.

Ruben Phillips, a well-to-do farmer, lived in a well-built one and a half story house, just in the middle of the storm's path, west of New Bloomfields. His house was set on solid concrete foundation, the house being bolted with half inch iron bolts to the concrete. Strange to say this seemingly secure way of preventing his house from blowing away, was the cause or one of the causes of the owner's death, his daughter, and a visiting girl. The family, father, mother, son, and daughter, and a visiting girl had just returned from church, getting home about 9.30 p. m. From what the writer could gather from the son, about 15 years old, soon after getting inside the house the father, daughter, and young girl friend, started for the basement. The house was struck with terrible force. It was lifted apparently, snapping the iron bolts like match sticks, twisted out of shape, thrown down on the ground to the east side, making a great trench, and then thrown back partly upon its own foundation. From the apparent resistance of the iron bolts to the fury of the wind, the western side of the concrete foundation, 16 feet long, 6 feet high, and 4 inches wide or thick, was torn loose, thrown across the middle of the basement and broken into three or four pieces. One of these great slabs of concrete apparently killed the father and daughter just as they reached the bottom of the basement stairs. Had the house not been bolted to the concrete, it probably would have been lifted fairly clean from the foundation and blown away, leaving some relatively safe places in the basement. A large barn about 100 feet to the southwest of the dwelling, was blown clean away, not a plank left; and other small houses in the path were blown from their foundations and smashed a distance away. It seems also probable that the barn might have been picked up and hurled against the dwelling, the combined forces being too much for the iron bolts to hold. The mother and son, the only two survivors, as well as nearby neighbors, stated that the whole affair was over and done within thirty to forty seconds. Large trees were torn off halfway down, or uprooted and carried several hundred feet. A tornado on April 18, 1880, the same that struck Eldon, Miller County, traveled this same path or paralleled it within 100 feet or more.

No further data or news was gathered of the tornado after it left the ground in Audrain County. But that same night about 1.40 a. m. to 2.10 a. m. (May 9th) a 75-mile gale passed over St. Louis, causing, according to the press, widespread damage in and near St. Louis. One person was killed. There was heavy damage to industrial plants, estimated to run up and over $1,000,000.

THE POPLAR BLUFF TORNADO, MAY 9:

From all available reports, and the territory has been covered most carefully, this tornado had its origin somewhere in the neighborhood of the southwest border of Randolph County, Ark., at 2.30 p. m. From thence it traveled speedily northeast, striking, killing, and destroying, at Maynard, Ark. From thence deadahead for the Missouri border, crossing into Ripley County, where Current River crosses the border into Arkansas, and at or near the little hamlet known as Currentview, at 3 p. m. Here it claimed its first human life in Missouri, killing a boy named Fred Daub, and badly hurting four. From thence it traveled a rather rugged, timber covered territory, tearing up large trees, and stripping the bark from others, straight away it whirled, cutting a path from one-half to one-fourth mile wide, with the settlements of Acron, Glenn, Torch, Naylor, Parks, Taft, and Harviell on the righthand, and Oxly and Fairdealing on the lefthand, destroying homes, barns, schoolhouses, churches, and orchards. When about 10 or 12 miles southwest of Poplar Bluff and one or two miles northwest of Taft, the storm, for the second time in Missouri, destroyed human life, killing a family of three, named Grosshart, and a few miles further on where it crossed the highway it caught a tourist car, killing all, six persons. This was about 3.06 or 3.08 p. m.

It is about 28 miles from the point where the tornado came into Missouri to Poplar Bluff. It crossed the border about 3 p.m. It was on and tearing up Poplar Bluff fifteen minutes later, having rushed northeastward at the rate of 112 miles an hour. And with all the fury it had gained in its mad rush, the tornado hit the prosperous little city, and county seat of Butler County, and in less than three minutes there was scarcely anything but death and destruction left in its wake. The fateful two or three minutes, possibly less, was definitely fixed at 3.16 p. m. by a little clock that hung against the wall at the East Side Grammar School. It stopped exactly at that time when some flying object struck it. The storm swept through the business section of the town, completely demolishing and destroying beyond all usefulness every building in 35 business blocks save four, the post office, the high school building, the Missouri Pacific station, and the Bank of Poplar Bluff, and even these suffered much damage.

The following vivid word picture of this terrible storm is by Mr. Turner Catledge, newspaper correspondent at Poplar Bluff:

> Sixty people lying dead, this commercial jewel of Southeast Missouri torn down almost to the level of its own ground, with property damage estsmated anywhere from $5,000,000 to $10,000,000, Poplar Bluff to-day looked up from the wreckage of the worst tornado disaster recorded in the annals of this part of the country***.
>
> The town was torn to pieces just like a person would take a piece of tissue and snatch it into a thousand pieces.*** Buildings collapsed like egg shells and how anyone in the business district escaped is one of those miracles that accompanies such disasters. Rain, torrential rain, lightning, frightful lightning, followed the crash. Witnesses told how fire seemed to shoot from the leaden skies, hit the pavement and spatter like a huge rocket.****
>
> The cyclone (tornado) came with midnight blackness in less time than it takes to tell it. A brownish, yellowish, smoky glow appeared in the west. The whole universe seemed boiling. Every one looked for rain. Instead it rained hail like brimstone which added horror and awe to the roar. People knew something was in the air. Frantic they ran in all directions. In an instant it was upon them and three minutes lengthened into three hours. Pandemonium reigned. Brick, stone, concrete, steel, wood, automobiles, and even people went hurtling through the air. Many ran about the streets screaming and yelling, while others looked up to see what havoc the visitation had wrought. The elements were still boiling, but in a second, rain, torrential rain, began to fall and for three hours sheets of water came down to add its horror and waste to the stricken city.

The storm seemed to have spent its force and fury at Poplar Bluff, although strong winds were felt northeast and east as far as Cape Girardeau County, but there was no material damage done outside of Butler County.

The latest compiled list of the dead, in the city limits, gives 74 names; and the list of injured carries about 300 names, some dying later have been added to list of dead. The property damage, excluding crops of all kinds, has been estimated all the way from $2,100,000 to $10,000,000. According to a survey made by the American Red Cross, completed May 19, 1927, 325 families, outside of the business district of Poplar Bluff, were affected either through death or injury to members of their families, or through property loss, in this tornado.

Both of these tornados traveled some hilly country. But nothing that nature or man built seem to swerve either from their selected path. They swept the ground up hill and down hill, across valleys, and rivers with equal ease and persistence. And both were occasionally attended by hail. Crop damage was immaterial because of delayed planting.

May 18: A tornado traveled northeast across a part of Randolph County, east of Moberly, from 8 .p m. to 9 p. m. It started about Renick and disappeared before reaching Evansville. The track was ten miles long, and from 200 to 1000 feet wide. No person was killed or injured. Two dwellings were blown from their foundations, and three barns were quite badly wrecked. Damage about $7,000.

May 24: A tornado advanced in easterly direction through St. Joseph, Buchanan County, from Kansas, beginning about 5.18 a. m. "Its destructive path was approximately two blocks wide, but not continuous, the greater part of the destruction being in a business portion of the city. The course of the tornado was to the southeastward with considerable damage for several blocks in the residential district beginning at Sixteenth and Olive streets. Then after another interval of about a mile with only light damage, the tornado blew down many valuable trees in Bartlett Park, after which it lost energy, but high winds in a path of one-half mile continued for a time to cause damage to trees, chimneys, etc. Two persons were slightly injured and none killed. As a conservative estimate, made by the city engineer, the damage done amounted to about $200,000." (O. I. C., St. Joseph.)

May 27: During more or less general thunderstorms, with northwest gales, a tornado, for the second time during the month, formed in the general gales in Randolph County, a little north of Roanoke at 5 p. m., thence eastward in a path about one-fourth mile wide and nearly ten miles long, passing through Yates and lifting from the earth just before reaching Higbee. It was more or less destructive all along its path, wrecking dwellings, barns, and killing stock, besides killing five persons and injuring eight. The amount of damage is estimated to be around $100,000. Crop damage not estimated as the main crop, corn, was not planted.

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Recapitulation: Tornadoes only.

	Persons Killed	Persons Injured	Property Loss Bldgs. household effects, etc.	Fruit Orchards
Camden County	0	3	$8,000	$3,000
Miller County	4	30	$120,000	$4,000
Cole County	0	1	$12,000	......
Callaway County	6	17	$150,000	......
Audrain County	0	0	$18,000	
Ripley County	1	4	$20,000	$2,000
Butler County	86	300	$2,100,000	$10,000
Randolph County(2)	5	11	$107,000	......
Buchanan County	0	2	$200,000	......
Totals	102	368	$2,771,000	$19,000

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Written for the Missouri Climatological Data, May, 1927, based upon all available data to May 31, 1927, by George Reeder, Meteorologist.

MS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

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CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXXI. COLUMBIA, MO., JUNE, 1927. No. 6.

GENERAL SUMMARY.

June opened as May closed---with prevalent cool weather and general showers and thunderstorms. To be correctly described, the weather of June, 1927, in Missouri, must be divided into two classes, one rather abnormal and decidedly unfavorable and the other nearly ideal and highly favorable. The first 20 to 22 days belong to the first class, while the remainder of the month falls in the other. The persistent rains that have prevailed since the middle of March continued up to about the 22d when they came to an abrupt end, and from then on the weather was clear, and relatively warm and favorable for all outdoor occupations.

In spite of the few hot days near the end of the month, the outstanding feature was the persistent subnormal temperature. While this month averaged a little cooler than June, 1926, that month had more warm days and more sunshine, while the current month was notable for much cloudiness. While the ordinary thunderstorms were numerous there were no real violent storms of any kind.

Owing to the wet and unfavorable season nearly all farming interests were two to three weeks behind the average at the close of the month, although field work made considerable advance during the last eight or ten days. Small grains were only fairly promising; and much corn was just coming up. Fruits of all kinds were indifferent as to quantity and quality, having been adversely affected by April frost, and by heavy rains at the time of pollination. The State Highway work was much handicapped by the rains.

TEMPERATURE.

The monthly mean temperature for the State, as shown by the reports of 65 stations, was 70.3°, or about 3.2° cooler than the normal. Besides closely agreeing with the mean of the same month last year, it is the third real cool June in about forty years. All sections experienced a marked deficiency in temperature, the northeast with a negative departure of 4°, stands rather apart from the others. There was a general cool spell from the 12th to the 19th, while for brief periods from the 8th to the 11th and again the last two days were the only generally warm periods. The extremes were well within the limits of other years, the maximum being 99° and the minimum 41°. Afternoon maxima of 90° or higher occurred on an average of four days.

PRECIPITATION.

The average precipitation for the State, 100 stations reporting, was 5.77 inches, or about 1.10 inches more than the 56 years' average. All parts of the State received more than the normal amount, the greatest falling over the Ozark Plateau where the excess averaged 1.92 inches. Some unusually heavy monthly amounts occurred, the largest being 11.61 inches at Lebanon, while Benton and Osceola each received over ten inches. The heaviest 24 hour amount was, for the second consecutive month, recorded at Caplinger Mills, where 5.23 inches fell, causing the local rivers to go out of banks. Practically all of the monthly rainfall occurred during the first three weeks, the last ten days being nearly rainless. This June was 2.15 inches wetter than last June, but not as wet as the same month in 1925.

SPECIAL STORM NOTES.

June 3.---A thunderstorm with strong wind and some small hail, swept over Boone and Callaway Counties between 5 and 6 a. m. Damage was confined to trees and some small outhouses, telephone and telegraph wires. Henry Kite of Boone County, and Jesse Burton of Callaway County, were killed by lightning.

Severe thunderstorm, accompanied by strong wind, and local hail, crossed the State from west to east, starting in Linn County and ended in Marion, between 12 m. and 1:30 p. m. (June 3). Excessive rain fell at Brookfield, Linn County, while at Macon, Macon County, the wind was severe and hail heavy. To some persons the storm looked like a tornado but high in the air. Buildings and trees were damaged by the wind, and the hail destroyed some corn and garden truck. Estimated loss not obtainable. According to the Weather Bureau Official at Hannibal, the storm struck there at 1:19 p. m., and that it was the most severe wind and hail storm that has occurred in that vicinity in many years. The stones averaged one-half inch or more in diameter. The hail covered a long but rather narrow path, the effects being noticeable for a number of miles in a northwest direction, particularly a little north of Withers Mill and in a southeasterly direction into Illinois near Kinderhook. The damage was estimated at $100,000, but it was thought to be somewhat excessive, although the damage by hail to crops apparently was not taken into consideration. The Telephone Company and the City Electric Light service lost many poles and much wire and cable. There was no damage reported from Shelby County, but small hail fell locally, and also in the southern part of Lewis County.

June 19.---A severe wind and rain storm swept over Joplin, Mo., early in the morning, wrecking two homes, injuring two persons, unroofing and otherwise damaging numerous other buildings, uprooted or broke off several hundred trees and blew down more than 50 power line and telephone poles. Rain fell in torrents. Estimated damage about $10,000.

Besides the foregoing, small hail fell at Kansas City, St. Joseph, Lexington, and Steffenville on the 3d; Hannibal, Clifton Hill and Steffenville 11th; Springfield and Lockwood 19th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
								Max. velocity.		
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Miles per hour.	Direction.	Date.
Columbia	29.97	64	74	288	64	5,021	7.0	40	nw.	3
Hannibal	29.98	78	..	...	..	5,924	8.2	48	e.	3
Kansas City	29.95	80	61	330	74	7,366	10.2	43	nw.	11
St. Joseph	29.94	80	57	313	70	5,906	8.2	45	w.	11
St. Louis	29.98	79	59	270	60	7,705	10.7	35	s.	20
Springfield	29.94	84	65	317	72	6,621	9.2	35	s.	3
Cairo, Ill	29.98	86	70	...	..	5,484	7.6	36	n.	12
Keokuk, Iowa	29.98	78	62	282	63	4,720	6.6	28	nw.	22

COMPARATIVE DATA FOR JUNE.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	72.6	−0.5	103	37	6.20	+1.26	....	0	7	....	....	....
1889	70.7	−2.4	100	38	4.66	−0.28	....	0	6	....	....	....
1890	77.2	+4.1	105	50	2.59	−2.35	....	0	6	....	....	....
1891	73.3	+0.2	103	46	6.94	+2.00	....	0	13	....	....	....
1892	74.5	+1.4	100	38	3.18	−1.76	4.25	0	7	15	9	6
1893	72.6	−0.5	98	42	4.61	−0.31	3.60	0	9	12	12	6
1894	74.5	+1.4	105	30	3.92	−1.02	3.48	0	7	16	11	3
1895	73.2	+0.1	100	42	5.77	+0.83	3.85	0	10	12	11	7
1896	72.5	−0.6	101	45	8.32	+3.38	5.60	0	9	12	11	7
1897	73.6	+0.5	102	38	6.18	+1.24	6.40	0	12	9	14	7
1898	75.3	+2.2	100	42	5.88	+0.94	6.05	0	9	13	12	5
1899	74.3	+1.2	101	42	3.87	−1.07	4.48	0	9	15	10	5
1900	73.3	+0.2	103	44	4.79	−0.15	5.06	0	10	12	12	6
1901	77.9	+4.8	110	40	2.13	−2.81	2.99	0	6	18	10	2
1902	70.9	−2.2	100	37	6.57	+1.63	6.08	0	12	11	10	9
1903	67.3	−4.2	95	36	3.25	−1.69	4.90	0	9	15	9	6
1904	70.5	−2.6	93	45	6.42	+1.58	5.41	0	11	12	12	6
1905	75.2	+2.1	103	42	3.09	−1.85	4.80	0	7	15	10	5
1906	72.7	−0.4	101	40	4.95	+0.01	4.07	0	10	15	9	6
1907	71.2	−1.9	97	40	5.84	+0.90	3.90	0	11	14	10	6
1908	72.3	−0.8	98	43	6.30	+1.36	5.30	0	11	13	10	7
1909	73.9	+0.8	98	49	5.21	+0.27	4.12	0	11	11	13	6
1910	70.4	−2.7	99	38	3.92	−1.02	3.70	0	8	16	7	7
1911	78.9	+5.8	112	43	1.78	−3.16	2.07	0	6	18	8	4
1912	69.5	−3.6	100	42	4.78	−0.16	5.60	0	9	14	8	8
1913	75.4	+2 6	107	33	2.57	−2.22	3.05	0	6	18	8	4
1914	79.3	+6.2	106	43	2.37	−2.29	3.50	0	5	18	7	5
1915	70.8	−2.5	98	38	6.51	+1.87	4.86	0	12	11	10	9
1916	70.0	−3.2	100	42	6.99	+1.17	6.75	0	10	14	9	7
1917	71.0	−2.3	103	35	3.78	−0.59	4.19	0	8	19	7	4
1918	77.2	+3.9	110	48	3.15	−1.36	4.28	0	7	17	8	5
1919	75.0	+1.9	104	44	5.59	+1.11	4.21	0	11	14	10	6
1920	72.7	−0.5	104	41	2.35	−2.16	3.74	0	6	18	7	5
1921	76.6	+3.4	105	44	5.71	+1.15	4.14	0	12	12	10	8
1922	76.5	+3.1	108	43	1.66	−2.89	2.30	0	5	19	8	3
1923	73.5	+0.2	103	45	5.48	+1.02	4.42	0	11	14	9	7
1924	72.5	−1.0	101	38	7.39	+2.72	4.39	0	14	12	12	6
1925	76.5	+3.0	103	46	6.10	+1.43	8.14	0	9	15	10	5
1926	70.9	−2.6	101	37	3.62	−1.05	2.94	0	8	15	9	6
1927	70.3	−3.2	99	41	5.77	+1.10	5.23	0	10	15	7	8

Climatological Data for June, 1927

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	47	70.0	−3.2	93	30	51	5†	31	5.70	+0.51	1.09	0	10	17	1	12	se.	O. K. Benecke
Clifton Hill	Randolph	731	27	68.3	−4.7	91	30	50	16	31	6.55	+2.21	2.10	0	15	13	9	8	......	Dr. A. J. Bradsher
Columbia	Boone	748	36	69.5	−3.3	92	30	52	13	27	6.11	+1.73	2.07	0	9	13	7	10	s.	U. S. Weather Bureau
Downing	Schuyler	876	5	....	......	..	..	..	..	..	6.25	+1.87	2.00	0	8	14	8	8	w.	James Taylor
Fayette	Howard	661	46	68.6	−4.7	95	25	49	16	32	4.44	−0.10	0.95	0	9	..	..	..	......	J. D. Settle
Fulton	Callaway	818	38	68.6	−5.0	91	26†	48	16	27	5.98	+1.78	3.30	0	10	15	8	7	......	Chamber of Commerce
Gorin	Scotland	700	39	....	......	..	..	..	..	..	6.03	+2.12	1.75	0	9	11	9	10	se.	J. W. Pulliam
Hannibal	Marion	534	34	69.3	−3.2	92	30	52	16	26	4.88	+1.36	1.26	0	10	13	9	8	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	69.9	−4.1	93	25	53	16	30	4.20	+0.18	1.15	0	10	17	2	11	s.	Miss Emma Swift
Kirksville	Adair	969	37	67.4	−4.8	91	29†	48	5†	31	7.19	+2.92	2.14	0	8	19	2	9	ne.	Prof. J. S. Stokes
Louisiana	Pike	469	32	70.2	−1.9	95	30	46	16	35	4.57	+0.62	1.26	0	10	20	5	5	w.	J. T. Farrell
Macon	Macon	875	27	68.6	−4.4	94	31	48	16	30	7.30	+2.89	1.95	0	9	11	12	7	sw.	W. C. Brown
Mexico	Audrain	800	37	70.2	−3.5	94	31	51	16	29	5.45	+0.67	1.40	0	9	16	0	14	e.	Mrs. Abbie Snoddy
St. Charles	St. Charles	456	38	70.7	−3.5	95	30	51	14†	32	4.26	+0.30	1.79	0	7	13	8	9	s	L. C. Saeger
St. Louis (1)	St. Louis City	568	52	71.2	−3.8	94	30	54	[illegible]	26	2.59	−1.88	0.88	0	10	10	10	10	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	14	70.8	−4.1	94	30	54	13	24	2.42	−1.34	0.84	0	9	15	8	7	se.	St. Louis University
Shelbina	Shelby	779	33	....	......	..	..	..	..	..	4.99	+0.28	1.11	0	8	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	28	68.2	−5.0	94	30	49	15	28	4.66	+0.56	1 05	0	8	19	7	4	s.	Frank Hall
Unionville	Putnam	1,062	33	67.5	−4.3	92	29†	43	5	32	5.55	+0.87	2.00	0	8	16	4	10	nw.	Geo. W. Davis
Warrenton	Warren	816	44	70.0	−3.6	96	30	49	16	32	3.49	−0.47	1.45	0	8	13	8	9	se.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	614	54	68.2	−4.3	93	30	51	5	25	6.61	+2.26	2.51	0	11	11	10	9	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	69.3	−4.0	96	30	43	5	35	5.20	+0.92	3.30	0	9	14	7	9	s.	
Southeast Lowlands.																				
Benton	Scott	340	1	....	......	..	..	..	..		10.03	......	3.50	0	16	..	..	..	......	E. R. Tirmenstein
Campbell	Dunklin	314	1	73.8	......	95	30	51	7	31	7.33	......	1.98	0	12	12	10	8	s.	Jeff. King
Caruthersville††	Pemiscot	265	30	75.9	−1.9	97	29†	56	7	33	5.69	+1.71	1.15	0	13	11	7	12	nw.	John T. Markey
Doniphan	Ripley	344	22	73.2	−1.6	95	25†	49	7	37	6.75	+2.37	2.25	0	9	13	9	7	sw.	W.W. Martin
Jackson	Cape Girardeau	428	35	71.4	−2.7	97	30	48	7	37	3.53	−0.76	1.18	0	11	10	5	15	s.	John G. Putz
Marble Hill	Bollinger	470	31	71.7	−2.2	95	30	48	7	38	3.88	−0.29	1.30	0	8	13	9	8	w.	R.A. DeWitt
Morehouse	New Madrid	289	25	....	......	..	..	..	..	..	8.02	+4.14	3.70	0	11	18	6	6	sw.	John A. Spence
Parma	New Madrid	281	5	....	......	..	..	..	..	..	7.49	......	2.60	0	12	..	..	..	......	H. W. Kendall
Patton	Bollinger	605	17	....	......	..	..	..	..	..	3.14	−0.53	1.25	0	10	..	..	..	......	S. P. Presnell
Poplar Bluff	Butler	329	22	73.2	−2.2	96	11†	48	7	36	3.06	−1.96	0.80	0	10	19	6	5	s.	J. H. Wolpers
Sikeston	Scott	318	21	74.7	+0.2	98	30	52	7	39	9.48	+5.60	2.70	0	12	16	5	9	sw.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	358	51	73.1	−3.2	94	30	57	7	26	5.89	+1.58	1.77	0	11	10	7	13	n.	U. S. Weather Bureau
Section means and	extremes	....	..	73.0	−2.0	98	30	48	7	39	6.24	+1.27	3.70	0	9	14	7	9	sw.	
Ozark Plateau.																				
Arcadia	Iron	926	45	68.4	−3.6	90	25†	46	15	34	5.77	+1.19	1.72	0	10	23	0	7	se.	Arcadia College
Aurora	Lawrence	1,370	36	71.0	−2.8	90	25	51	15	31	7.30	+2.32	1.64	0	11	15	5	10	sw.	W. T. Troughton
Birchtree (near	Shannon	1,000	31	70.1	−2.6	92	11†	50	7†	30	6.51	+1.98	2.20	0	8	16	8	6	ne.	V. H. Kirkendall
Bolivar	Polk	1,071	32	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	Southwest Baptist College
Dean ‡‡	McDonald	1,000	27	75.2	+2.2	93	11†	53	7	33	10.99	+5.72	3.27	0	13	21	2	7	e.	H. E. Dean
Eldon	Miller	934	30	69.4	−3.8	93	25	50	15	34	4.63	+0.32	1.21	0	13	15	10	5	sw.	E. H. Shepherd
Farmington	St. Francois	918	15	70.9	−1.7	98	30	48	16	34	2.56	−2.07	1.05	0	9	15	10	5	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	22	69.9	−2.9	93	30	49	16	32	5.67	+1.37	2.52	0	11	15	8	7	se.	A. C. Leach
Goodland	Iron	1,000	32	69.0	−3.1	94	25	45	15	40	4.68	+0.58	2.15	0	7	17	5	8	s.	F. M Adams
Greenville	Wayne	381	4	70.8	......	97	25	48	15	37	6.17	......	1.40	0	8	13^{e}	3^{e}	9^{e}	s.	Wm. P. Owens
Hailey	Barry	1,350	1	....	......	..	..	..	..	..	7.18	......	2.40	0	10	20	2	8	sw.	A. W. Madison
Hollister	Taney	735	39	....	......	..	..	..	..	..	...	......	....	0	..	..	..	..	......	Mrs. W. P. Chapman
Koshkonong	Oregon	958	25	72.8	−1.5	93	11†	53	7	31	6.93	+2.45	1.78	0	10	15	6	9	ne.	R. M. Hitt
Lebanon	Laclede	1,265	38	68.8	−4.3	90	11†	47	15	32	11.61	+6.68	3.10	0	12	16	7	7	sw.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	20	69.4	−4.6	87	25†	51	15	22	8.05	+3.25	3.00	0	8	20	2	8	sw	C. S. Crow
Mountain Grove(near)	Wright	1,463	25	70.4	−1.2	91	25	49	15	29	5.64	+1.08	1 03	0	11	13	14	3	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	71.2	−2 7	90	25	49	15	33	9.03	+3.60	2.24	0	11	18	8	4	sw	U. S. Fisheries Sta.
Rolla	Phelps	1,099	26	71.2	−1.6	99	29	51	16	32	2.76	−1.37	1.12	0	8	18	5	7	sw.	Prof. Elmo G. Harris
Seligman	Barry	1,542	24	70.2^{a}	−2.3	89	11†	53	7†	31	6.23	+2.70	1.19	0	13	15^{a}	4^{a}	10^{a}	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,642	20	69.5	−2.5	91	11	49	7†	32	6.74	+2.11	1.71	0	10	14	11	5	se.	Ira H. Hailey
Springfield	Greene	1,324	38	70.2	−2 3	89	11	54	14	24	5.95	+0 76	1.44	0	11	16	13	1	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	70 5	−2.4	99	29	45	15	40	6.55	+1.92	3.27	0	10	17	6	7	sw.	
Southwest Plain.																				
Amoret	Bates	831	19	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	Andrew Rood
Appleton City	St. Clair	853	32	71.2	−3.6	94	25	52	15	27	5 83	+0.84	1.47	0	11	11	15	4	sw.	W. G. Bigelow
Centerview	Johnson	872	39	71.0	−3.2	93	25	52	13†	31	5.27	+0.51	1,60	0	9	18	2	10	e.	E. A. Markey
Clinton	Henry	765	33	72.2^{d}	−1.2	98	25	52	2	27	6.84	+2.11	3.00	0	8	12^{d}	10^{d}	4^{d}	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	49	68.8	−4.6	95	25	50	15	30	6.80	+2.34	2,04	0	14	7	7	16	e.	John H. Patterson
Lamar	Barton	980	39	71.6	−2.8	92	25	53	15	30	7.59	+2.63	1.70	0	10	13	10	7	sw.	Jesse A. Mann
Lamonte	Pettis	867	25	70.4	−3.9	95	25	50	15†	31	4.71	+0.22	1.40	0	11	19	3	8	sw	J. E. Wheeler
Marshall	Saline	779	37	71.9^{e}	−2.0	98	26†	49	16	36	4.94	+0.62	1.21	0	8	12^{e}	5^{e}	8^{e}	ne.	Dr. W. H. Black
Nevada	Vernon	862	33	72.2	−1.4	96	25	51	15	29	7.74	+2 63	1.43	0	11	15	11	4	sw.	George A. Kaupp
Warsaw	Benton	687	26	70.8	−2.9	95	30	48	15	40	4.94	−0.23	1.25	0	8	17	9	4	w.	Everett Martin
Section means and	extremes	.....	..	71.1	−2.8	98	25†	48	15	40	6.07	+1.30	3.00	0	10	14	8	8	sw.	
Northwest Plateau.																				
Bethany	Harrison	916	34	68.8	−3.6	92	29†	41	15	34	6.46	+1.98	1.55	0	12	13	8	9	ne.	M. H. Moulton
Chillicothe	Livingston	779	17	68.9	−5.3	93	30	48	17	29	6.69	+1.62	2.42	0	10	14	4	12	ne.	Wm. J. Olenhouse
Conception	Nodaway	980	37	69.9	−1.7	95	28†	49	5†	32	3.63	−0.92	1.54	0	7	18	5	7	ne.	Fr. Adelhelm Hess
Edgerton	Platte	856	6	70.2^{a}	......	91	11	46	15	33	4.90	−0.21	1.74	0	10	20	5	5	s.	Fred L Stiff
Grant City	Worth	1,134	22	66.7	−4.6	91	30	48	5†	25	4.68	+0.13	1.54	0	11	20	6	4	ne	W. P. Spillman
Kansas City	Jackson	963	37	70.4	−3.2	91	25	52	13	24	5.75	+1.09	1.44	0	11	15	6	9	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	33	67.2	−5.2	91	30	48	13†	29	5.36	+1.00	1.77	0	11	14	4	12	ne.	Linn Terry
King City	Gentry	1,095	1	...	......	..	..	..	..	..	4.72	......	2.77	0	9	..	..	..	......	D. B. Oliver
Lexington	Lafayette	688	41	70.6	−2.2	93	25	50	15	28	5.50	+0.73	1.10	0	12	16	5	9	s.	Edwin G. Loomis
Maryville	Nodaway	1,169	36	68.3^{c}	−1.3	91	25†	45	15†	30	1.99	−2.64	0.88	0	7	20	1	9	s	J. R. Brink
Oregon	Holt	1,048	70	71.9	−0.4	94	29	50	15	29	5.69	+0.96	2.53	0	10	21	4	5	sw.	Mina Wright
St. Joseph	Buchanan	967	18	71.2	−3.0	93	29	51	15	26	5.00	+0.33	1.88	0	8	19	5	6	se.	U. S. Weather Bureau
Tarkio	Atchison	916	23	69.4	−3.3	92	24†	48	5†	30	4.80	−0.01	1.42	0	7	14	8	8	se.	Albert Volker
Trenton	Grundy	822	30	69.8	−2.8	92	29†	52	6†	25	6.74	+2.44	2.37	0	9	21	2	7	ne.	W. H. Estes
Section means and	extremes	.....	..	69.5	−3.0	95	28†	41	15	34	5 14	+0.50	2.77	0	10	17	5	8	ne.	
State means and	extremes	.....	..	70.3	−3.2	99	29	41	15	40	5.77	+1.10	5.23	0	10	15	7	8	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson; of Gano, Salem, R. F. D. No. 5. ‡ Indicates plus.

Daily Precipitation for June, 1927

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	....	.03	1.00	1.00	....	.02	T.	....	....	....	....	.40	.70	.10	....	....	.04	.58	....	.26	.60	....	....	....	....	....	....	....	....	....	....	4.73
Brunswick‖	Grand	.05	....	.85	.82	....	.02	....	.10	....	....	....	1.08	.82	.05	....	....	....	1.09	....	....	.82	....	....	....	....	....	....	....	....	....	....	5.70
Clifton Hill	Chariton	.02	.45	.32	.35	....	.07	.03	....	....	....	.60	2.10	1.13	.02	....	....	.96	....	....	.30	.07	.02	.11	....	....	....	....	....	....	....	....	6.55
Columbia***	Missouri	.02	.45	1.23	....	....	.04	....	....	....	....	.11	.08	1.41	....	....	....	.70	....	....	2.07	....	....	....	....	....	....	....	....	....	....	....	6.11
Downing	Mississippi	....	.75	1.30	....	....	....	....	....	....	....	.60	2.00	.37	T.	....	....	.06	....	....	.24	.93	....	....	....	....	....	....	....	....	....	....	6.25
Fayette‖‖	Missouri	.01	.35	.38	....	.95	.06	....	....	....	....	.75	....	.79	....	....	....	.73	....	....	.42	....	....	....	....	....	....	....	....	....	....	....	4.44
Fulton	do	....	.02	.33	.37	....	.04	....	....	....	....	....	.38	3.30	.05	....	....	.02	.51	....	....	.96	....	....	....	....	....	....	....	....	....	....	5.98
Gorin	Mississippi	....	1.02	.65	.98	....	....	....	....	....	....	.69	1.75	.30	.02	....	....	.16	....	....	.46	....	....	....	....	....	....	....	....	....	....	....	6.03
Hannibal***	do	T.	.62	1.12	.03	....	.01	....	....	....	....	.73	.24	.74	T.	....	....	.13	....	....	1.23	.03	T.	....	....	....	....	....	....	....	....	....	4.88
Hermann‖	Missouri	.04	....	.84	.14	....	.01	....	....	....	....	....	.38	1.19	.30	....	....	....	.17	....	....	1.00	....	....	....	....	....	....	....	....	....	....	4.07
Jefferson City‖	do	.80	.10	.69	.05	....	.03	....	....	....	....	....	....	1.03	....	....	....	.07	.28	....	.05	1.10	....	....	....	....	....	....	....	....	....	....	4.20
Kirksville	Mississippi	....	2.14	.80	.96	....	....	....	....	....	....	.57	1.60	.47	....	....	....	.33	....	....	.32	....	....	....	....	....	....	....	....	....	....	....	7.19
Louisiana	do	....	.16	.15	.07	....	....	....	....	....	....	.10	.76	1.10	T.	....	....	.28	....	....	1.26	.27	....	.42	....	....	....	....	....	....	....	....	4.57
Macon‖	Chariton	....	....	1.75	1.45	....	....	.03	....	....	....	....	1.95	1.10	.04	....	....	....	.52	....	....	.24	....	.22	....	....	....	....	....	....	....	....	7.30
Mexico‖	Mississippi	....	.02	.10	1.15	....	....	....	....	....	....	....	1.10	1.40	.20	....	....	....	.50	....	....	.86	....	.12	....	....	....	....	....	....	....	....	5.45
Milan‖	Grand	.05	1.22	1.22	1.70	....	....	....	....	....	....	....	.83	.52	....	....	....	.42	.30	....	.35	....	....	....	....	....	....	....	....	....	....	....	6.61
Pacific‖	Meramec	.28	T	.25	.07	....	.08	....	....	....	....	....	.53	.75	.20	.03	....	....	.14	....	.37	1.27	....	....	....	....	....	....	....	....	....	....	3.97
St. Charles	Missouri	.02	.27	.04	....	....	T.	....	....	....	....	....	1.06	1.79	....	....	....	.31	....	....	....	.77	....	....	....	....	....	....	....	....	....	....	4.26
St. Louis (1)***	Mississippi	.23	.04	.10	....	....	.03	....	....	....	....	T.	.39	.74	....	....	....	.17	T.	.01	.79	.09	....	....	....	....	....	....	....	....	....	....	2.59
St. Louis (2)*	do	.20	.02	.11	....	....	.03	....	....	....	....	....	.18	.84	....	....	....	.09	....	T.	.80	.15	....	....	....	....	....	....	....	....	....	....	2.42
Shelbina‖‖	do	....	....	1.09	1.11	....	....	....	....	....	....	....	....	1.00	.65	.03	....	....	.43	T.	....	.60	....	.08	....	....	....	....	....	....	....	....	4.99
Steffenville	do	....	1.05	.60	.58	....	....	....	....	....	....	.26	.62	.91	.14	....	....	....	....	....	T.	.50	....	....	....	....	....	....	....	....	....	....	4.66
Union‖	Meramec	.48	.02	.15	.05	....	.09	....	....	....	....	....	.39	.90	.14	....	....	.02	.23	....	....	.50	....	....	....	....	....	....	....	....	....	....	2.97
Unionville‖	Chariton	....	.70	.90	.90	....	....	....	....	....	....	.50	1.50	.45	....	....	T.	T.	....	T.	.50	.10	....	....	....	....	....	....	....	....	....	....	5.55
Warrenton	Mississippi	....	.52	.15	.12	....	T.	....	....	....	....	....	.43	1.45	....	....	....	.07	....	....	.30	.45	....	....	....	....	....	....	....	....	....	....	3.49
Keokuk, Ia.***	do	....	1.47	1.27	.04	....	....	....	....	....	.07	2.34	.17	.09	T.	....	....	.06	....	....	.87	.22	.01	....	....	....	....	....	....	....	....	....	6.61
Southeast Lowlands																																	
Benton	Mississippi	1.16	.23	.29	.01	....	.10	....	....	....	.50	.06	.30	2.00	.01	....	....	.71	.40	.07	....	3.50	.68	....	....	....	....	....	....	....	.01	....	10.03
Campbell‖	St. Francis	1.98	.08	.20	1.26	.02	....	....	....	....	....	....	.06	.05	.43	....	....	.04	1.54	....	.23	1.44	....	....	....	....	....	....	....	....	....	....	7.33
Cape Girardeau‖	Mississippi	2.20	.15	.19	.02	....	.02	.03	....	....	....	.60	.23	.01	.62	....	....	....	.49	....	....	.80	1.50	....	....	....	....	....	....	....	....	....	6.86
Caruthersville‖	do	1.15	.02	1.10	....	....	.05	.16	....	....	....	1.12	.16	....	.16	....	....	T.	.35	.95	.05	.40	....	....	....	....	....	....	....	.02	....	....	5.69
Dexter‖	St. Francis	1.42	T.	.32	....	....	T.	.30	....	....	....	....	T.	.20	.15	T.	....	....	.52	....	.16	1.06	....	....	....	....	....	....	....	....	....	....	4.13
Doniphan	Black	2.25	.75	.37	....	....	....	....	....	....	....	....	.40	.20	.23	....	....	1.55	....	.15	T.	.85	....	....	....	....	....	....	....	....	....	....	6.75
Jackson	Mississippi	1.18	.13	.06	....	....	.05	....	....	....	.31	....	.06	.48	.48	....	....	.16	.08	....	....	.54	....	....	....	....	....	....	....	....	....	....	3.53
Marble Hill	Mississippi	1.30	.32	....	....	....	.12	....	....	....	....	....	.12	.70	....	....	....	.26	....	....	....	.16	.90	....	....	....	....	....	....	....	....	....	3.88
Morehouse	do	1.30	.31	1.02	....	....	.07	....	....	....	....	....	.52	.50	.01	....	....	.40	.09	.10	3.70	....	....	....	....	....	....	....	....	....	....	....	8.02
New Madrid‖	do	2.50	.20	.55	.95	....	.10	.08	....	....	....	....	.01	....	.88	....	....	.35	.55	....	.37	.37	1.00	....	....	....	....	....	....	....	....	....	7.91
Parma	St. Francis	1.73	.32	.31	....	....	.10	....	....	....	....	.08	.35	.39	.08	....	....	1.08	....	.20	.25	2.60	....	....	....	....	....	....	....	....	....	....	7.49
Patton	Mississippi	1.25	.17	.22	....	....	.08	....	....	....	....	....	.25	.23	....	....	....	.05	.64	....	.04	.21	....	....	....	....	....	....	....	....	....	....	3.14
Poplar Bluff‖	Black	.20	.35	.02	....	.04	.05	....	....	....	.10	....	T.	.80	....	....	....	.50	....	.22	.78	T.	....	....	....	....	....	....	....	....	....	....	3.06
Sikeston‖	Mississippi	2.70	.38	.78	.95	....	T.	.07	....	....	....	T.	.40	.23	1.34	....	....	.21	.89	....	....	.65	.88	....	....	....	....	....	....	....	....	....	9.48
Cairo, Ill.***	do	.99	.16	.35	....	....	.05	....	....	....	.39	....	.35	.59	T.	....	....	1.77	T.	.03	....	1.06	.15	....	....	T.	....	....	....	....	....	....	5.89
Ozark Plateau.																																	
Arcadia‖	St. Francis	1.67	1.72	.35	....	....	.43	.06	....	....	....	....	T	.33	.08	....	....	T.	.68	.07	....	.38	....	....	....	....	....	....	....	....	....	....	5.77
Aurora	Neosho	.42	.78	.09	....	....	.42	....	....	....	....	....	.03	.38	....	....	....	1.36	.35	1.64	1.49	....	....	....	....	....	....	....	....	....	.34	....	7.30
Birchtree (near)	Black	2.20	.47	....	....	....	.15	....	....	....	....	....	....	.61	....	....	....	1.51	....	.31	.20	1.06	....	....	....	....	....	....	....	....	....	....	6.51
Bolivar	Osage	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Caplinger Mills	Osage	1.75	.29	T.	.09	....	T.	T.	.07	....	....	....	.02	1.97	T.	....	T.	.43	.04	1.16	5.23	....	....	....	....	....	....	....	....	....	....	....	11.05
Dean	Neosho	1.34	.76	.05	.46	.08	.15	....	....	....	....	....	.16	.80	....	....	....	.45	3.27	1.19	2.20	....	....	....	....	....	....	....	....	....	.08	....	10.99
Eldon‖‖	Missouri	.86	.16	.46	.22	....	.15	....	.04	....	....	....	....	.95	.03	....	....	.12	.39	.02	1.21	.02	....	....	....	....	....	....	....	....	....	....	4.63
Farmington	St. Francis	1.05	.17	.22	....	....	.16	....	....	....	....	....	.13	.37	....	....	....	.34	....	....	.06	.06	....	....	....	....	....	....	....	....	....	....	2.56
Fredericktown‖‖	do	1.93	....	.43	....	....	.03	....	....	....	....	....	....	....	.06	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	2.50
Galena‖‖	White	1.45	.50	.38	.08	....	....	....	....	....	....	....	....	.05	....	....	....	.45	.32	1.83	.58	....	....	....	....	....	....	....	....	....	....	....	5.64
Gano	Meramec	2.52	.43	.50	.06	....	.15	....	....	....	....	....	.08	.48	....	....	....	.63	....	.05	.27	.50	....	....	....	....	....	....	....	....	....	....	5.67
Goodland	Black	2.15	.25	.42	....	....	....	....	....	....	....	....	....	....	....	....	....	.47	....	.38	.23	.78	....	....	....	....	....	....	....	....	....	....	4.68
Greenville	St. Francis	1.40	.92	.53	....	....	.10	....	....	....	....	....	.20	.61	....	....	....	....	1.10	....	1.31	....	....	....	....	....	....	....	....	....	....	....	6.17
Hailey	White	1.68	.25	.37	....	....	.76	....	....	....	....	....	.37	....	....	....	....	.33	.30	2.40	.70	....	....	....	....	....	....	....	....	....	.02	....	7.18
Hollister	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Koshkonong	Black	1.48	.55	1.78	....	....	.09	....	....	....	....	....	....	.50	....	....	....	1.06	.05	.45	.50	.47	....	....	....	....	....	....	....	....	....	....	6.93
Lebanon‖	Osage	3.10	1.05	.92	.85	....	.30	....	T.	....	....	....	....	1.00	.70	....	....	.35	.60	.19	.20	2.35	....	....	....	....	....	....	....	....	....	....	11.61
Lockwood	do	.51	.62	....	....	....	....	....	....	....	....	....	.53	.69	....	....	....	1.12	.18	3.00	1.40	....	....	....	....	....	....	....	....	....	....	....	8.05
Mountain Grove‖	White	.95	.61	.30	....	....	.15	....	....	....	....	....	.82	.19	....	....	....	.80	....	.51	.19	1.03	.09	....	....	....	....	....	....	....	....	....	5.64
Neosho	Neosho	.65	1.46	.06	T	.05	T.	....	....	....	....	....	.87	.70	T.	....	T.	.37	.64	2.24	1.97	T.	....	....	....	....	....	....	....	....	.02	....	9.03
Owensville‖	Gasconade	....	.05	.55	.28	....	....	....	....	....	....	....	.58	.78	.27	....	....	....	.21	....	....	1.02	....	....	....	....	....	....	....	....	....	....	3.74
Rolla‖	Meramec	.10	.25	.33	....	.20	....	....	....	....	....	....	.07	.27	....	....	....	.42	....	....	1.12	....	....	....	....	....	....	....	....	....	....	....	2.76
Seligman	Neosho	1.19	.75	.24	.30	.38	.14	....	....	....	....	....	.03	.04	....	....	....	.45	.96	1.00	.69	.06	....	....	....	....	....	....	....	....	....	....	6.23
Seymour (near)	White	1.71	.49	.13	T.	....	.14	....	....	....	....	.58	T.	....	....	....	....	1.25	.05	.58	1.57	.24	....	....	....	....	....	....	....	....	T.	....	6.74
Springfield***	do	.76	.21	.01	....	.04	.14	T	....	....	....	....	1.31	.08	....	....	T	.61	.33	1.20	1.26	....	....	....	....	....	....	....	....	....	T.	....	5.95
Steelville‖	Meramec	1.46	.08	.26	.32	....	.33	....	....	....	....	....	....	....	.55	....	....	....	.38	....	....	.75	....	....	....	....	....	....	....	....	....	....	4.13
Stover‖	Missouri	.40	.45	.57	.36	....	....	....	.35	....	....	....	....	1.74	.03	....	....	.25	.09	....	.15	.85	....	....	....	....	....	....	....	....	....	....	5.24
Tuscumbia‖	Osage	.41	.21	.67	.36	....	.18	....	T	....	....	....	....	.42	.16	....	....	.16	.12	....	.01	2.28	....	....	....	....	....	....	....	....	....	....	4.98
Willow Sprgs.‖ (near)	White	1.17	1.09	.24	.01	....	.11	....	....	....	....	....	....	.20	.25	....	....	.33	1.24	.20	.12	2.27	....	....	....	....	....	....	....	....	....	....	7.23
Southwest Plain.																																	
Amoret	Osage	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Appleton City	do	1.47	1.07	.04	....	....	.10	.20	....	....	....	....	....	1.09	....	....	T.	.29	....	.79	.60	.04	....	....	....	....	....	....	....	....	.14	....	5.83
Centerview	Missouri	1.60	.85	.25	.20	T.	.12	T.	....	....	....	....	....	.73	T	....	....	.75	....	T	.67	....	....	....	....	....	....	....	....	.10	....	....	5.27
Clinton	Osage	.05	3.00	.21	....	....	.15	.48	....	....	....	....	....	.70	....	....	....	.40	....	....	1.85	....	....	....	....	....	....	....	....	....	....	....	6.84
Concordia‖	Missouri	....	1.05	.61	1.26	....	....	....	....	....	....	....	....	.77	....	....	....	.60	.32	....	.52	.48	....	....	....	....	....	....	....	....	....	....	5.61
Harrisonville‖	Osage	.23	2.04	.55	.36	....	.04	.44	.02	....	....	....	....	.75	.17	....	....	.56	.02	.36	.13	1.13	....	....	....	....	....	....	....	....	....	....	6.80
Joplin*	Neosho	1.16	.25	.07	....	.37	.37	....	....	....	....	....	.16	.29	T.	....	T.	.63	.36	2.29	1.30	....	....	....	....	....	....	....	....	....	.09	....	7.34
Lamar‖	do	.03	1.10	.20	....	....	.12	....	....	....	....	....	....	1.70	.09	....	....	1.45	T.	.70	1.10	1.10	....	....	....	....	....	....	....	....	....	....	7.59
Lamonte	Missouri	.54	.70	.24	.30	....	.16	.20	....	....	....	....	.01	.65	....	....	....	.50	.01	....	1.40	....	....	....	....	....	....	....	....	....	....	....	4.71
Marshall‖	do	....	.76	.38	....	....	.12	....	....	....	....	....	.76	1.05	.05	T.	....	1.21	....	....	.61	....	....	....	....	....	....	....	....	....	T.	....	4.94
Nevada	Osage	.70	.62	1.03	....	.60	....	....	....	....	....	....	....	1.43	....	....	.40	.43	.04	.64	1.04	.81	....	....	....	....	....	....	....	....	....	....	7.74
Osceola‖	do	1.55	1.30	1.28	.23	....	.12	....	1.18	....	....	....	....	1.85	....	....	....	.31	....	.84	.21	1.67	....	....	....	....	....	....	....	....	....	....	10.54
Warsaw	do	.08	.98	.43	....	....	.10	.90	....	....	....	....	....	1.10	....	....	....	.10	....	....	1.25	....	....	....	....	....	....	....	....	....	....	....	4.94
Waverly‖	Missouri	T.	T.	.57	1.13	....	T.	.08	....	....	....	....	.60	.68	.10	....	....	.55	1.39	....	.13	.53	....	....	....	....	....	....	....	....	....	....	5.76
Northwest Plateau.																																	
Albany‖	Grand	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bethany	do	....	.68	1.55	.83	....	.01	.20	.06	T.	T.	.43	1.10	.65	....	....	.06	.66	....	....	.23	T.	....	T.	....	....	....	....	....	....	....	....	6.46
Chillicothe‖‖	do	....	T.	1.06	2.42	....	T.	.08	....	....	....	....	1.05	.84	.06	....	....	.69	.19	....	.05	.25	....	....	....	....	....	....	....	....	....	....	6.69
Conception	Missouri	....	.50	1.54	....	....	T.	....	....	....	....	.49	.45	.45	T.	....	.03	T.	....	....	.17	....	....	....	....	....	....	....	....	....	....	....	3.63
Edgerton	do	....	.40	.51	.10	....	.08	....	....	....	....	....	.33	1.74	.02	....	....	.34	....	.01	1.37	T.	....	....	....	....	....	....	....	....	....	....	4.90
Gallatin‖	Grand	....	....	2.26	1.21	....	....	....	....	....	....	....	1.12	1.07	T.	....	....	.78	T.	....	.11	T.	....	....	....	....	....	....	....	....	....	....	6.55
Grant City	do	....	1.54	.72	T.	....	....	....	.10	....	....	.63	.72	.45	.03	....	.10	.11	....	....	.22	....	....	....	....	....	....	....	....	....	.06	....	4.68
Kansas City***	Missouri	.05	.79	1.44	....	T.	.04	T.	....	....	....	.21	.10	1.20	.01	....	.08	.74	....	T.	1.09	T	....	....	....	....	....	....	....	....	....	....	5.75
Kidder‖	Grand	....	.02	.60	1.77	....	.02	T.	....	....	....	....	.75	1.25	.08	....	....	.54	.10	....	.08	.15	....	....	....	....	....	....	....	....	....	....	5.36
King City	Missouri	....	.22	2.77	.05	....	....	....	....	....	....	.16	.48	.75	....	....	.03	.17	....	....	.09	....	....	....	....	....	....	....	....	....	....	....	4.72
Lexington‖	do	.01	.35	.86	1.10	....	.03	....	....	....	....	....	.32	.59	.08	....	....	.68	.80	....	.06	.62	....	....	....	....	....	....	....	....	....	....	5.50
Maryville‖	do	....	.15	.04	....	....	.02	....	....	....	....	.27	.53	.88	....	....	....	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.99
Oregon	do	....	.41	2.53	....	....	.04	....	....	....	....	.17	.78	1.00	T.	....	.16	.42	....	T.	.16	.02	....	....	....	....	....	....	....	....	....	....	5.69
St. Joseph***	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Tarkio	do	....	.80	.58	....	....	.07	....	....	....	....	1.42	.80	.48	....	....	.65	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4.80
Trenton	Grand	....	.80	2.37	....	....	T.	.15	....	....	....	.34	.56	.96	.01	....	T.	1.23	....	....	.32	....	T.	....	....	....	....	....	....	....	....	....	6.74

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. ‖ Precipitation is for 21-hour period midnight to midnight.

Daily Temperatures for June, 1927

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Mean
Northeast Plain.																																	
Brunswick §§	Maximum	78	76	76	78	72	72	84	86	85	80	88	68	61	73	74	69	71	81	87	81	80	80	81	86	92	84	86	90	92	93	..	80.1
	Minimum	59	61	62	60	51	56	56	61	63	67	59	61	54	54	53	51	54	59	61	69	65	63	59	61	64	62	58	59	65	71	..	59.9
Columbia	Maximum	68	74	82	78	67	68	78	85	83	80	87	68	64	71	70	68	65	78	84	76	79	76	77	85	90	79	82	88	92	92	..	77.8
	Minimum	60	61	61	62	57	56	55	62	67	64	60	63	52	56	53	52	59	61	67	65	64	60	57	63	71	63	59	61	72	73	..	61.2
Fayette	Maximum	72	74	78	81	71	70	81	87	86	84	88	66	64	75	72	68	64	80	87	80	82	80	80	86	95	82	85	89	92	92	..	79.7
	Minimum	58	60	60	60	55	55	52	56	58	56	56	59	54	54	50	49	56	58	59	66	63	56	54	56	65	60	55	57	63	68	..	57.6
Hannibal	Maximum	76	72	68	77	66	69	79	85	83	78	78	68	62	73	68	72	68	80	85	75	81	77	79	84	90	77	81	87	91	92	..	77.4
	Minimum	59	61	57	61	55	57	53	63	68	62	58	58	54	57	53	52	62	56	63	68	67	63	61	63	72	63	60	62	75	73	..	61.2
Jefferson City §§	Maximum	68	68	82	79	70	69	78	85	82	82	88	72	61	71	73	70	68	80	86	75	82	80	82	85	93	82	83	88	90	91	..	78.8
	Minimum	60	62	63	63	58	54	54	60	62	67	61	65	60	55	59	53	56	59	62	67	63	61	59	59	67	65	60	58	67	70	..	61.0
Kirksville	Maximum	73	70	68	75	70	68	80	84	83	81	79	66	61	72	69	67	69	78	83	77	79	77	79	84	88	90	82	88	91	91	..	77.4
	Minimum	54	53	56	55	48	52	53	60	64	63	55	53	50	55	48	50	59	51	61	65	65	60	51	58	70	59	56	60	70	70	..	57.5
Louisiana	Maximum	78	75	75	78	78	70	82	85	85	86	82	75	68	76	76	72	72	82	87	84	80	78	83	86	93	88	84	90	94	95	..	81.2
	Minimum	58	62	58	62	55	55	48	57	64	70	54	57	55	56	52	46	60	54	58	65	65	62	60	56	72	62	55	55	72	68	..	59.1
Macon§§	Maximum	78	74	71	78	69	72	82	86	86	80	80	69	62	74	74	72	71	81	87	82	81	80	80	86	91	82	85	89	93	94	..	79.6
	Minimum	55	58	59	56	51	53	52	59	61	64	56	55	50	50	49	48	56	53	59	65	66	59	55	59	67	59	56	60	66	70	..	57.5
Mexico§§	Maximum	72	70	77	80	68	71	82	87	85	82	85	62	59	72	70	71	64	80	85	77	82	80	77	87	93	79	84	91	93	94	..	78.6
	Minimum	62	64	64	64	58	59	55	63	67	69	60	61	55	55	54	51	59	62	64	68	67	63	58	63	67	63	59	62	65	72	..	61.8
St. Louis(1)	Maximum	66	71	80	80	69	69	78	84	84	85	86	78	65	68	70	76	68	79	84	78	83	82	77	85	92	79	81	89	93	94	..	79.1
	Minimum	61	61	61	64	60	54	60	64	68	71	65	65	55	56	56	56	62	59	67	67	67	66	62	61	71	62	61	63	76	77	..	63.3
Unionville	Maximum	78	73	70	74	72	70	82	84	84	80	78	68	65	74	74	70	74	80	85	80	82	78	84	84	88	84	84	88	92	92	..	79.0
	Minimum	52	52	52	54	43	54	54	58	64	60	50	52	50	54	44	50	52	50	60	60	65	65	52	57	70	55	54	62	65	70	..	56.0
Warrenton	Maximum	72	70	81	79	74	68	79	87	84	82	88	79	66	70	71	74	70	81	88	81	82	80	78	86	90	85	82	90	95	96	..	80.3
	Minimum	57	60	60	61	55	54	55	59	63	67	59	61	53	54	51	49	59	59	63	64	65	60	58	58	70	62	58	58	70	71	..	59.8
Southeast Lowlands.																																	
Campbell	Maximum	75	81	84	82	75	71	79	87	86	90	94	92	85	75	77	80	80	82	79	85	85	85	85	87	91	90	82	91	94	95	..	84.1
	Minimum	64	66	67	71	62	57	51	57	57	68	70	66	68	56	57	57	61	62	64	65	68	68	63	61	66	69	60	60	69	72	..	63.4
Caruthersville	Maximum	75	86	86	81	77	70	76	83	95	93	95	94	91	89	69	79	82	78	81	75	87	87	85	89	94	87	85	94	97	97	..	85.2
	Minimum	65	66	67	67	67	59	56	61	62	70	73	71	73	59	59	62	65	64	64	67	68	71	68	67	70	74	65	68	75	75	..	66.6
Doniphan	Maximum	79	80	87	83	75	67	81	85	88	91	94	92	86	69	76	78	78	84	79	86	87	86	85	88	95	87	88	92	94	95	..	84.5
	Minimum	64	65	67	65	60	57	49	60	56	63	68	69	66	57	56	53	59	59	65	67	67	63	60	59	64	70	51	57	70	68	..	61.8
Jackson	Maximum	73	76	82	80	79	79	78	83	86	91	88	87	84	69	75	80	74	78	79	81	85	85	87	85	92	87	81	91	93	97	..	82.8
	Minimum	62	62	64	66	59	55	48	56	56	67	66	65	59	54	51	51	62	63	61	64	63	64	59	56	62	64	57	54	61	69	..	60.0
Poplar Bluff	Maximum	75	79	86	86	79	71	83	86	88	93	96	95	85	71	79	79	79	85	79	82	88	88	89	89	95	91	86	92	95	96	..	85.5
	Minimum	63	64	66	68	60	56	48	56	54	66	67	67	63	56	53	52	58	61	61	63	66	63	60	57	61	66	58	56	67	69	..	60.8
Sikeston	Maximum	76	78	83	87	75	74	91	84	85	92	93	94	88	71	77	80	77	85	77	83	87	89	87	89	96	96	83	94	97	98	..	85.5
	Minimum	64	61	68	72	63	63	52	58	59	67	70	65	64	56	56	55	62	66	65	65	69	69	66	61	67	69	59	60	73	72	..	63.9
Cairo, Ill.	Maximum	73	77	80	80	71	64	75	83	82	88	89	86	84	67	74	77	74	78	73	81	84	83	80	83	91	82	78	89	92	94	..	80.4
	Minimum	65	67	67	69	63	58	57	63	65	71	72	66	58	57	60	61	62	67	68	65	70	69	70	65	70	68	63	66	76	76	..	65.8
Ozark Plateau.																																	
Arcadia§§	Maximum	66	74	82	78	76	67	78	79	82	87	87	83	66	68	71	73	71	77	76	79	83	82	78	82	90	79	78	87	89	90	..	78.6
	Minimum	61	62	63	63	57	52	50	55	55	63	62	63	62	53	46	47	53	61	62	65	66	58	59	53	60	61	52	53	63	64	..	58.1
Birchtree	Maximum	77	76	83	78	76	67	74	82	83	90	92	89	74	64	70	75	78	83	78	79	83	81	81	83	92	83	80	88	90	90	..	80.6
	Minimum	62	62	65	65	59	54	50	59	59	66	66	68	56	50	51	51	54	64	60	57	65	58	55	55	64	65	55	58	68	68	..	59.6
Eldon §§	Maximum	69	77	84	81	71	72	79	84	84	85	90	73	61	73	74	73	72	83	85	81	81	81	82	85	93	82	83	82	91	91	..	80.1
	Minimum	62	62	63	63	56	54	54	56	61	61	60	65	60	55	50	51	55	60	63	64	58	56	57	57	62	61	57	56	57	67	..	58.8
Farmington	Maximum	69	78	83	76	70	68	81	85	87	92	93	80	68	64	72	75	77	78	85	82	86	85	82	88	95	81	82	93	96	98	..	81.6
	Minimum	62	64	63	64	59	57	53	56	58	67	64	64	53	53	50	48	59	61	63	64	64	60	59	54	65	61	54	67	72	67	..	60.2
Hollister	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Koshkonong	Maximum	80	78	84	81	75	65	81	85	84	90	93	89	82	68	75	76	82	83	79	81	84	84	83	87	93	84	83	90	91	93	..	82.8
	Minimum	63	65	66	66	61	58	53	60	60	67	69	70	65	56	54	54	61	61	65	67	66	63	60	61	67	68	58	59	70	71	..	62.8
Lebanon§§	Maximum	76	75	86	77	70	69	78	84	82	84	90	86	61	69	75	74	75	86	86	84	70	78	80	84	90	83	84	87	89	90	..	80.1
	Minimum	59	60	61	61	56	52	51	52	59	60	63	63	61	51	47	48	54	59	61	63	63	57	55	55	59	60	57	56	57	65	..	57.5
Mountain Grove	Maximum	72	75	83	81	75	64	75	82	80	88	89	88	76	71	72	72	77	85	84	81	82	81	82	83	91	85	81	87	87	88	..	80.6
	Minimum	62	61	65	63	58	53	50	58	58	65	64	68	58	53	49	53	60	61	62	67	62	58	57	63	64	63	59	58	68	69	..	60.3
Neosho	Maximum	80	84	84	83	79	74	79	82	82	88	89	89	80	71	75	74	73	86	86	78	77	77	81	84	90	87	87	88	88	84	..	82.0
	Minimum	62	63	67	62	56	58	53	56	58	66	62	64	64	54	49	56	62	57	62	65	62	55	54	56	69	68	61	55	69	67	..	60.4
Rolla	Maximum	68	75	83	80	79	72	80	88	85	85	92	89	69	73	75	74	71	83	85	82	82	79	83	86	90	88	86	90	99	93	..	82.1
	Minimum	60	62	62	61	57	52	53	59	61	67	63	65	55	52	52	51	59	61	67	66	64	58	59	60	68	62	56	58	70	71	..	60.4
Springfield	Maximum	74	76	83	77	70	65	75	81	81	84	89	84	70	67	70	69	73	83	80	78	78	76	79	83	88	83	81	85	86	85	..	78.4
	Minimum	62	62	67	62	59	55	55	61	61	67	67	65	55	54	54	57	61	59	63	64	63	61	60	62	69	68	62	61	71	70	..	61.9
Southwest Plain.																																	
Amoret	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...
Appleton City	Maximum	74	75	84	80	74	70	83	84	84	82	91	81	65	71	74	72	74	85	83	77	79	76	83	86	94	85	86	88	89	90	..	80.6
	Minimum	62	61	64	60	59	54	57	60	63	66	64	65	55	54	52	58	61	60	65	65	65	59	58	59	72	66	62	63	71	78	..	61.9
Centerview	Maximum	71	74	82	78	72	70	82	84	84	84	91	86	74	76	74	69	70	82	84	79	80	78	77	82	93	82	86	90	91	91	..	80.5
	Minimum	57	61	63	61	59	55	59	65	63	61	62	55	52	54	52	56	59	62	78	66	66	63	67	61	72	61	59	63	76	61	..	61.6
Clinton	Maximum	76	77	86	83	75	70	82	85	86	89	93	85	73	75	77	79	79	85	..	..	..	76	84	88	98	..	89	88	90	93	..	d83.1
	Minimum	56	52	66	61	58	58	57	60	61	63	66	64	55	65	67	64	64	65	..	..	..	..	..	..	..	..	..	..	..	..	..	l61.2
Harrisonville§§	Maximum	71	74	83	81	66	67	83	83	82	83	90	62	58	72	72	69	70	84	82	73	80	77	82	85	95	83	85	87	89	89	..	78.6
	Minimum	58	60	59	57	56	53	53	60	62	64	62	60	53	52	50	55	57	58	62	64	61	58	56	58	66	63	60	61	65	68	..	59.0
Lamar§§	Maximum	75	77	85	78	72	72	81	85	85	85	91	85	67	73	74	74	75	84	82	82	78	77	82	86	92	88	89	90	89	91	..	81.5
	Minimum	60	62	66	63	61	55	56	60	62	65	66	69	62	56	53	58	62	58	63	64	65	61	58	60	62	68	64	61	65	70	..	61.8
Lamonte	Maximum	68	77	78	80	71	71	81	87	85	83	91	70	64	75	75	75	71	84	88	79	80	76	84	87	95	87	88	91	92	94	..	80.9
	Minimum	59	61	62	60	57	54	56	59	62	64	60	61	54	56	50	50	55	61	66	66	64	57	56	60	72	60	58	61	70	65	..	59.9
Marshall	Maximum	76	78	82	..	..	77	83	..	..	83	93	90	67	74	76	71	66	..	93	90	80	80	83	88	93	98	91	94	98	98	..	e84.1
	Minimum	56	60	60	..	..	55	55	..	..	65	65	60	55	55	50	49	59	..	60	65	65	57	60	54	71	65	55	65	65	66	..	e59.7
Nevada	Maximum	79	75	82	81	73	69	81	83	84	83	94	84	68	71	75	74	75	84	84	76	80	80	84	90	96	91	90	92	94	93	..	82.2
	Minimum	62	61	66	62	59	53	57	62	63	67	65	67	56	55	51	62	64	57	65	64	63	61	59	61	73	65	63	63	71	70	..	62.2
Warsaw	Maximum	76	75	85	81	82	71	80	85	84	84	82	90	71	76	74	73	77	85	87	87	70	79	82	86	91	85	85	90	90	95	..	81.9
	Minimum	63	61	64	63	65	54	56	57	63	66	63	60	61	56	48	58	58	61	67	65	54	54	56	57	71	60	58	65	56	55	..	59.8
Northwest Plateau.																																	
Chillicothe §§	Maximum	79	78	75	77	68	71	83	86	85	82	79	65	65	72	73	66	70	81	87	79	80	80	81	87	91	83	87	91	92	93	..	79.5
	Minimum	55	61	60	57	52	52	55	58	66	63	56	56	51	53	49	50	48	54	63	67	63	59	56	59	73	57	58	63	68	68	..	58.3
Grant City	Maximum	71	71	67	67	64	64	77	80	84	81	69	68	60	65	66	65	70	75	87	80	75	74	75	86	89	82	84	89	90	91	..	75.5
	Minimum	52	58	58	54	48	53	55	61	69	59	55	51	51	55	48	54	54	57	62	67	62	55	56	61	64	59	59	64	66	71	..	57.9
Kansas City	Maximum	73	74	79	76	64	68	82	85	86	78	89	68	56	70	70	67	67	80	84	74	77	75	81	87	91	83	87	88	90	90	..	78.0
	Minimum	60	61	59	59	58	55	61	66	66	67	65	56	52	54	56	58	60	61	68	66	64	63	62	65	74	66	65	67	74	74	..	62.7
Kidder§§	Maximum	76	75	75	75	67	69	82	84	84	78	83	61	60	70	70	63	70	78	84	73	79	78	79	86	88	82	85	88	90	91	..	77.4
	Minimum	54	56	59	54	51	52	53	60	62	61	56	55	48	50	48	50	53	57	58	66	59	57	54	57	66	58	58	61	64	69	..	56.9
Lexington§§	Maximum	74	77	78	80	76	69	85	85	84	81	88	84	64	73	73	68	66	81	84	77	79	78	82	85	93	84	85	88	90	91	..	80.1
	Minimum	59	61	62	59	56	55	57	63	65	66	60	60	53	56	50	55	60	60	66	68	63	61	57	60	71	62	59	64	71	72	..	61.0
Maryville	Maximum	82	72	73	76	69	69	85	87	86	83	75	69	61	73	67	67	75	80	89	81	80	80	83	88	91	84	88	91	91	91	..	79.5
	Minimum	52	60	59	54	48	54	56	62	63	59	56	50	48	52	45	45	55	56	..	..	..	62	54	62	63	61	62	65	68	72	..	c57.1
Oregon	Maximum	81	74	81	77	73	73	85	89	88	85	88	73	60	76	78	74	79	83	90	84	81	82	85	91	93	90	92	93	94	92	..	82.8
	Minimum	55	61	60	56	57	55	59	65	66	61	61	55	51	55	50	56	57	61	67	69	62	59	57	66	72	61	64	69	71	73	..	61.0
St. Joseph	Maximum	77	75	77	75	69	70	82	87	87	81	90	66	60	73	74	62	75	81	88	75	79	79	84	89	91	86	89	91	93	91	..	79.9
	Minimum	59	63	60	58	57	57	61	67	68	64	64	54	52	55	51	57	59	61	69	67	65	62	58	65	73	65	65	70	73	75	..	62.5
Trenton	Maximum	76	71	72	73	69	70	81	87	84	81	78	73	64	71	71	76	71	79	86	83	79	79	81	86	88	85	82	86	92	92	..	78.9
	Minimum	59	61	58	57	56	52	57	65	66	65	60	56	52	56	52	54	59	57	65	68	64	62	59	61	71	61	60	68	70	71	..	60.7

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a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXXI. COLUMBIA, MO., JULY, 1927. No. 7.

GENERAL SUMMARY.

July, 1927, in Missouri, averaged cooler than the normal, while the rainfall, sunshine, and winds were about normal. Sunshine and showers followed in quite a regular and pleasing fashion, and with mostly gentle to fresh winds, the weather during most the time was about ideal for midsummer, that is, in the open outside of the cities. There was some local damage by wind and hail, and some of the small rivers of the Ozarks were out of banks, but the month was comparatively free from serious and damaging storms, such as have prevailed during the four months preceding. (See under Special Storm Notes for hail and wind damage.)

July was the most favorable month since the beginning of the season for crop growth. The unusually backward condition of the corn crop has been largely overcome, although the bulk of corn is still behind the seasonal average condition. Wheat, oats, and a remarkably fine crop of hay were harvested under especially favorable weather. At the close of the month moisture conditions were unusually favorable for the season of the year, as no single locality was suffering from the lack of rain. Plowing for fall seeding was well advanced and much ahead of the same work last year.

TEMPERATURE.

The monthly mean temperature for the State, 68 stations reporting, was 75.8°, or 1.6° below the normal, and the coolest July since 1924. While subnormal temperatures were general, the deficiency was less marked in the southeastern lowlands, averaging less than 1°, and more noticeable in the Ozark Plateau, where the daily average exceeded 2°. The highest temperature was 101°, at Sikeston on the 10th; the normal is 106°. The lowest was 48°, at Goodland on the 4th and Arcadia on the 9th; the normal is 46°. The average number of days with maximum temperature of 90° or higher was 11, and about 6 less than usual; 100° or higher was reached at only two stations on two days.

PRECIPITATION.

The average precipitation for the State, 105 stations reporting, was 4.13 inches, or 0.08 inch more than the 56 years' average. In the northern half there was a deficiency, ranging from 0.97 inch in the eastern part to 1.61 inches in the northwestern section; south of the Missouri River there was a general excess, ranging from 0.56 inch to 1.70 inches. As a rule the rains were gentle, falling at regular intervals at about four to seven days, and were highly beneficial. There were a few excessive falls, the heaviest monthly being 10.95 inches, at Aurora, while the greatest amount in any 24 consecutive hours was 4.65 inches, at Lockwood on the 20th.

SPECIAL STORM NOTES.

July 6.---A severe hailstorm occurred in Nodaway County in the vicinity of Burlington Junction at about 5 p. m. Stones were large and damaging. The path, fortunately, was narrow and not over a mile or two long, though small hail covered considerable territory. Automobile tops were pierced. Corn, gardens, hay, and fruit were damaged to the extent of $5,000. That same night, a severe thunder and wind storm caused about $16,000 damage in the city of St. Louis.

July 13.---A hail and windstorm of much violence in the late afternoon, laid waste to thousands of dollars worth of crops in the southern part of Gentry County, in the neighborhood of King City. The damage area was about four miles wide by six long. Some of the stones were as large as hen eggs. The loss is put at $30,000.

July 24.---Severe hail, the second storm of the summer, accompanied by high wind and excessive local rain, swept over Nodaway County between 5 and 6 p. m. To the west and northwest of Maryville, the hail was the worst in many years, according to our Special Observer, Mr. J. R. Brink, and the Press of that County. Besides fruit and gardens, 10,000 acres of fine and well advanced corn were damaged, about 2,000 acres being a total loss, the damaged area extending from Clearmont southward through Burlington Junction and Wilcox townships. The stones were unusually large, and ice remained packed away in shady places for many days. The loss to that farming section, as a conservative estimate, will exceed $70,000. Later press reports said that a Mr. Arch Jones, proprietor of the Merchants Cafe, Burlington Junction, has kept some of the stones of the storm of July 6 in his Frigidaire. The largest stone on the day of falling weighed eight ounces and measured 11 inches around the largest part, these chunks of ice being not completely round but flattened out somewhat. On August 10th, the stone was again weighed and measured, and was still 11 inches around but had lost one ounce in weight.

July 28.---A tornado formed in Johnson County, Kans., in the neighborhood of Monrovia, at about 4:45 p. m. It crossed into Missouri and through a part of Kansas City. There were no casualties of a personal nature, according to the O. I. C., Weather Bureau, Kansas City, and the property damage was confined to 4 small houses wrecked, and 16 others more or less damaged. Estimated damage $25,000.

Lightning Casualties.---Two men, Kenneth Ellsberry and Verall Acell, were killed by lightning in Shelby County, on the 18th. Two women, mother and daughter, a Mrs. Gamble, were fatally injured by lightning in a cotton field in Butler County, on the 20th.

MISCELLANEOUS PHENOMENA.

Aurora.—On the 21st, at Downing, Hannibal, and St. Joseph.
Halos, lunar.—10th. Solar.—1st, 6th, 10th, 11th, 14th, 18th, 28th, and 29th.
Hail.—6th, 12th, 17th, 19th, 24th, and 31st.
Thunderstorms.—1st, 5th, 6th, 7th, 9th, 11th, to 17th; 19th to 31st.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.00	79	61	336	74	4,120	5.5	44	nw.	6
Hannibal	30.00	77	..	...	..	4,981	6.7	46	w.	6
Kansas City	30.00	72	52	386	85	6,080	8.2	51	n.	13
St. Joseph	29.98	78	50	380	83	4,421	5.9	28	nw.	13
St. Louis	30.00	73	56	321	71	6,427	8.6	31	sw.	7
Springfield	29.99	81	58	334	75	5,406	7.3	42	nw.	16
Cairo, Ill.	30.01	80	58	...	.	4,750	6.4	33	w.	14
Keokuk, Iowa	30.01	73	52	347	76	3,519	4.7	28	nw.	21

COMPARATIVE DATA FOR JULY.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	79.3	+2.3	111	50	3.31	−0.98	....	0	7	....	....	....
1889	77.1	+0.1	107	46	3.75	−0.54	....	0	8	....	....	....
1890	79.6	+2.6	106	52	2.98	−1.31	....	0	5	....	....	....
1891	72.7	−4.3	103	40	3.55	−0.74	....	0	8	....	....	....
1892	75.8	−1.2	101	45	4.99	+0.70	4.75	0	8	12	10	9
1893	77.3	+0.3	101	51	4.91	+0.62	6.44	0	8	14	12	5
1894	76.5	−0.5	109	42	2.48	−1.81	4.90	0	5	18	10	3
1895	74.4	−2.6	106	45	6.79	+2.50	6.52	0	10	10	12	9
1896	77.3	+0.3	108	48	5.87	+1.58	8.00	0	9	15	11	5
1897	78.7	+1.7	106	48	3.22	−1.07	4.05	0	6	19	9	3
1898	76.1	−0.9	104	42	5.58	+1.29	8.15	0	9	16	10	5
1899	76.0	−1.0	102	43	4.51	+0.22	4.48	0	9	15	11	5
1900	76.9	−0.1	102	46	4.11	−0.18	7.03	0	8	17	10	4
1901	85.4	+8.4	116	46	2.02	−2.27	3.78	0	5	19	10	2
1902	77.0	0.0	103	50	4.59	+0.30	5.30	0	8	17	11	3
1903	77.4	+0.4	102	51	3.22	−1.07	3.26	0	8	17	10	4
1904	74.2	−2.8	100	47	4.65	+0.36	4.15	0	10	15	11	5
1905	73.4	−3.6	101	48	7.45	+3.16	7.60	0	12	12	10	9
1906	74.7	−2.3	100	48	3.53	+0.76	4.46	0	8	17	10	4
1907	78.4	+1.4	105	47	4.57	+0.28	6.70	0	8	19	8	4
1908	76.5	−0.5	101	49	2.23	−2.06	2.65	0	8	18	9	4
1909	76.7	−0.3	102	41	6.41	+2.12	10.71	0	10	17	8	6
1910	76.8	−0.2	109	46	6.70	+2.41	5.80	0	9	16	9	6
1911	78.0	+1.0	113	43	3.95	−0.34	4.20	0	8	16	9	6
1912	78.8	+1.8	104	52	2.74	−1.55	3.17	0	7	18	9	4
1913	80.2	+3.2	108	47	3.13	−1.16	3.62	0	7	18	9	4
1914	80.5	+3.7	109	45	2.67	−1.66	4.45	0	7	17	9	5
1915	74.6	−2.4	102	42	6.05	+1.59	6.77	0	12	14	9	8
1916	81.6	+4.6	109	52	1.25	−3.15	2.58	0	3	25	5	1
1917	77.5	+0.2	107	42	2.96	−1.22	3.40	0	8	20	8	3
1918	77.1	+0.2	110	41	1.76	−2.49	3.75	0	6	19	8	4
1919	80.0	+2.3	115	50	2.33	−1.37	4.55	0	5	23	6	2
1920	76.3	−0.9	105	47	3.25	−0.84	3.84	0	7	18	8	5
1921	80.3	+2.9	109	46	2.32	−1.77	2.25	0	5	20	8	3
1922	76.8	−0.7	103	46	5.85	+1.82	12.25	0	8	17	9	5
1923	78.2	+0.7	105	50	3.07	−0.89	7.42	0	6	18	8	5
1924	73.3	−4.1	103	40	5.39	+1.34	7.14	0	10	15	11	5
1925	77.9	+0.5	106	46	2.71	−1.34	3.25	0	7	16	10	5
1926	78.0	+0.6	108	40	3.14	−0.91	6.00	0	7	17	9	5
1927	75.8	−1.6	101	48	4.13	+0.08	4.65	0	8	18	9	4

Climatological Data for July, 1927

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	47	75.8	+ 0.1	97	27	49	25	37	2.50	−2.14	0.50	0	11	21	1	9	se.	O. K. Benecke
Clifton Hill	Randolph	731	27	74.6	− 1.8	94	27	54	3†	32	2.66	−1.22	0.85	0	9	12	15	4	......	Dr. A. J. Bradsher
Columbia	Boone	748	36	74.8	− 2.1	94	27	55	23	31	3.07	−0.58	0.69	0	10	12	14	5	s	U. S. Weather Bureau
Downing	Schuyler	876	5	75.6	......	98	27	50	2†	34	1.83	−3.10	0.57	0	4	18	10	3	sw.	James Taylor
Fayette	Howard	661	46	74.4	− 3.0	96	27	51	23	37	5.17	+1.52	1.55	0	8	..	..	..	......	J. D. Settle
Fulton	Callaway	818	38	75.2	− 2.7	93	12†	55	24	29	2.88	−1.11	0.62	0	8	21	7	3	..	Chamber of Commerce
Gorin	Scotland	700	39	....	......	..	..	..	..	..	2.37	−1.66	1.31	0	6	12	14	5	sw	J. W. Pulliam
Hannibal	Marion	534	34	75.6	− 1.2	93	28	58	23	29	2.51	−1.24	0.64	0	10	13	12	6	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	75.3	− 2.8	94	27	57	9†	32	5.10	+1.65	2.16	0	9	23	3	5	s.	Miss Emma Swift
Kirksville	Adair	969	37	74.6	− 1.5	95	27	54	3	31	2.10	−2.35	1.18	0	4	24	6	1	w	Prof. J. S. Stokes
Louisiana	Pike	469	32	76.2	− 0.2	96	27	55	5†	34	4.48	+1.36	1.11	0	7	25	2	4	w.	J. T. Farrell
Macon	Macon	875	27	75.4	− 2.0	97	27	53	23	34	2.05	−1.71	0.66	0	9	17	11	3	sw.	W. C. Brown
Mexico	Audrain	800	37	75.9	− 1.4	97	27	55	4†	34	3.84	+0.09	2.25	0	6	26	1	4	sw.	Mrs. Abbie Snoddy
Monroe City	Monroe	748	6	....	......	..	..	..	..	..	1.79	......	0.43	0	8	..	..	..	......	....
St. Charles	St. Charles	456	38	76.4	− 1.7	96	28	53	4	33	2.41	−0.82	0.86	0	7	15	11	5	s.	L. C. Saeger
St. Louis (1)	St. Louis City	568	52	77.6	− 1.1	97	28	56	4	27	2.79	−0.64	1.20	0	8	16	9	6	n.	U. S. Weather Bureau
St. Louis (2)	do	578	14	77.0	− 3.1	95	28	57	4	25	2.36	−0.39	0.70	0	8	20	8	3	w.	St. Louis University
Shelbina	Shelby	779	33	....	......	..	..	..	..	..	2.09	−2.07	0.71	0	9	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	28	75.8	− 2.2	97	9†	54	4†	36	2.41	−2.02	0.73	0	6	14	16	1	e.	Frank Hall
Unionville	Putnam	1,062	33	74.6	− 2.0	95	27	50	3	40	3.25	−1.04	1.40	0	6	17	11	3	sw.	Geo. W. Davis
Warrenton	Warren	816	44	75.9	− 1.9	94	1†	50	3	30	3.12	−0.30	1.63	0	4	13	15	3	sw	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	614	54	75.4	− 1.5	93	6	56	4	28	1.38	−2.65	0.94	0	6	12	12	7	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	75.6	− 1.8	98	27	49	25	40	2.83	−0.97	2.25	0	7	18	9	4	sw.	
Southeast Lowlands.																				
Benton	Scott	340	1	....	......	..	..	..	..	..	3.65	......	0.95	0	13	..	..	..	......	E. R. Tirmenstein
Campbell	Dunklin	314	1	76.8	......	97	12	56	6	37	7.71	......	2.19	0	9	16	11	4	s.	Jeff. King
Caruthersville	Pemiscot	265	30	80.6	0.0	98	28	63	24	30	3.28	−0.13	1.50	0	7	14	11	6	se.	John T. Markey
Doniphan	Ripley	344	22	77.8	− 0.4	98	12†	54	9	39	4.34	−0.39	1.34	0	6	16	12	3	sw.	W.W. Martin
Jackson	Cape Girardeau	428	35	75.8	− 1.6	99	10	51	9	38	6.00	+2.48	2.46	0	10	10	4	17	s	John G. Putz
Marble Hill	Bollinger	470	31	76.4	− 0.9	98	28	50	9	40	5.13	+0.45	1.10	0	8	17	9	5	n.	R.A. DeWitt
Morehouse	New Madrid	289	25	....	......	..	..	..	..	..	5.95	+1.18	2.56	0	8	20	9	2	sw	John A. Spence
Parma	New Madrid	281	5	....	......	..	..	..	..	..	3.72	......	1.89	0	5	..	..	..	......	H. W. Kendall
Patton	Bollinger	605	17	....	......	..	..	..	..	..	4.73	+0.99	1.48	0	7	..	..	..	......	S. P. Presnell
Poplar Bluff	Butler	339	22	77.6	− 1.1	99	10†	54	6†	42	5.25	+1.70	3.20	0	5	23	4	4	s.	J. H. Wolpers
Sikeston	Scott	318	21	78.7	+ 0.6	101	10†	57	4	39	4.31	−0.46	1.81	0	7	19	7	5	sw.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	358	51	78.2	− 1.4	94	12	59	4	23	2.63	−0.82	1.11	0	9	11	9	11	n.	U. S. Weather Bureau
Section means and	extremes	....	..	77.7	− 0.7	101	10†	50	9	42	4.72	+0.56	3.20	0	8	16	9	6	s.	
Ozark Plateau.																				
Arcadia	Iron	926	45	72.6	− 3.3	94	11	48	9	39	4.19	−0.05	1.38	0	8	19	9	3	sw	Arcadia College
Aurora	Lawrence	1,370	36	75.4	− 2.4	96	10	55	24	29	10.95	+5.59	2.85	0	10	22	4	5	sw.	W. T. Troughton
Birchtree (near)	Shannon	1,000	31	75.2^{a}	− 1.2	96	11	53	25	33	5.12	+1.13	1.75	0	8	19^{a}	6^{a}	5^{a}	n.	V. H. Kirkendall
Bolivar	Polk	1,071	32	73.1^{b}	− 4.0	93	6	57	3†	31	2.85	−0.90	1.50	0	5	21^{a}	5^{a}	4^{a}	s.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	27	....	......	98	10	..	..	..	6.27	+2.22	1 88	0	9	21	6	4	sw.	H. E. Dean
Eldon	Miller	934	30	75.5^{a}	− 1.5	96	10	56	23	34	4.71	+1.05	2.64	0	10	10^{a}	12^{a}	8^{a}	sw.	E. H. Shepherd
Farmington	St. Francois	918	15	75.0	− 0.3	99	11	51	4	42	5.78	+2.23	1.90	0	9	13	13	5	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	22	75 0	− 1.9	96	11	52	4†	38	4.04	+0.54	1.43	0	10	18	7	6	s.	A. C. Leach
Goodland	Iron	1,000	32	74.5	− 1.1	97	9†	48	4†	49	2.84	−1.34	1.10	0	6	17	10	4	s.	F. M Adams
Greenville	Wayne	381	4	74.1	......	95	10†	49	9	40	4.50	.....	1 25	0	9	20	5	6	w	Wm. P. Owens
Hailey	Barry	1,350	1	....	......	..	..	..	..	..	8.38	......	1.80	0	7	16^{c}	6^{c}	4^{c}	w.	A. W. Madison
Koshkonong	Oregon	958	25	77.4	− 0.9	97	12	59	4†	31	4 86	+0.94	1.75	0	8	20	6	5	sw	R. M. Hitt
Lebanon	Laclede	1,265	38	73.3	− 3.6	96	12	51	9	40	5.58	+1.46	1.10	0	13	18	9	4	sw.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	20	73.7	− 3.9	94	10	58	9†	27	8.56	+3.69	4.65	0	7	21	4	6	nw.	C. S. Crow
Mountain Grove (near)	Wright	1,463	25	74.8	− 1.2	97	10	53	9	36	9.46	+5.46	3 95	0	11	16	8	7	sw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	74.4	− 3.2	94	10†	51	4†	37	7.88	+3.70	2.10	0	8	22	5	4	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	26	76.4	− 1.0	95	10	56	4†	33	4.03	−0.06	1.53	0	9	18	10	3	w.	Prof. Elmo G. Harris
Seligman	Barry	1,542	24	74.2^{a}	− 2.4	94	10	54	9†	34	6.30	+1.90	1.86	0	7	18^{a}	8^{a}	4^{a}	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,642	20	72 8^{f}	− 2.7	91	11†	50	9	30	5.82	+1.07	1.35	0	11	18	11	2	sw.	Ira H. Hailey
Springfield	Greene	1,324	38	74.8	− 2.0	92	10	59	23	25	6.80	+2.01	2.07	0	10	22	6	3	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	74.6	− 2.2	99	11	48	4†	49	5.95	+1.70	4.65	0	9	18	8	5	sw.	
Southwest Plain.																				
Amoret	Bates	831	19	76.2	− 1.4	96	11	50	25	41	6.10	+2.14	2.22	0	7	24	4	3	s	Andrew Rood
Appleton City	St. Clair	853	32	75.8	− 2.5	94	6	58	23	34	6.31	+1 68	2.40	0	12	9	20	2	sw.	W. G Bigelow
Centerview	Johnson	872	39	77.4^{a}	− 1.4	98	10†	56	24	36	3.49	−0.46	1.03	0	8	20^{a}	7^{a}	3^{a}	sw.	E. A. Markey
Clinton	Henry	765	33	80 5^{c}	+ 3.0	100	10	60	4	29	5.03	+1.09	1.55	0	10	13	15	3	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	49	74.6	− 3.2	98	10	56	23	35	5.04	+1.26	1 59	0	9	5	9	17	s.	John H. Patterson
Lamar	Barton	980	39	76.4	− 2.1	99	10	58	9	38	6.75	+2.51	2.00	0	8	15	14	2	sw.	Jesse A. Mann
Lamonte	Pettis	867	25	76.7	− 2 8	99	10	54	23	38	4 40	+0.40	2.40	0	9	20	8	3	s.	J. E. Wheeler
Marshall	Saline	779	37	77.8^{g}	+ 0.5	98	27	56	24	36	1.45	−2.51	0.46	0	9	14^{b}	6^{b}	3^{b}	nw.	Dr W. H. Black
Nevada	Vernon	862	33	76.4	− 3.8	98	10	56	4	37	5.82	+1.89	1.60	0	7	18	8	5	s	George A. Kaupp
Warsaw	Benton	687	26	75.3	− 3.0	98	10	54	9	38	3.47	−0.83	1.38	0	7	22	5	4	w.	Everett Martin
Section means and	extremes	.....	..	76.7	− 1.7	100	10	50	25	41	4.79	+0.71	2 40	0	9	16	10	5	sw.	
Northwest Plateau.																				
Bethany	Harrison	916	34	75.7^{a}	− 0.3	96	27	52	30	31	2 39	−2.12	1.03	0	7	13^{a}	14^{a}	3^{a}	sw.	M. H. Moulton
Chillicothe	Livingston	779	17	75.6	− 4.6	97	27	53	3†	37	2 39	−2.19	1.00	0	8	18	11	2	ne.	Wm. J. Olenhouse
Conception	Nodaway	980	37	76.2	− 0.2	98	27	56	3	33	3.22	−1.08	1.82	0	6	17	13	1	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	6	75.1^{a}	......	96	10	52	23	40	2.84	−1 96	1.03	0	7	21	6	4	s.	Fred L Stiff
Grant City	Worth	1,134	22	74.8	− 1.4	97	11	55	3	32	2.44	−2.72	1.24	0	6	20	11	0	sw.	W. P. Spillman
Kansas City	Jackson	963	37	77.0	− 1.1	95	6	60	23	24	2.33	−2.51	0.87	0	7	15	12	4	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	33	73.2	-- 3.7	94	11	53	23	31	3.93	0.00	0.90	0	8	17	5	9	nw.	Linn Terry
King City	Gentry	1,095	1	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	D. B. Oliver
Lexington	Lafayette	688	41	77.8	+ 0.7	96	6†	57	23	32	2.07	−2.65	1.20	0	8	15	11	5	s.	Miss Carrie Loomis
Maryville	Nodaway	1,169	36	75.6	0.0	96	27	55	23	30	2.71	−2.68	0.68	0	7	22	2	7	s.	J. R. Brink
Oregon	Holt	1,048	70	77.4	+ 1.8	97	10†	58	2†	32	3.81	−0.51	1.61	0	8	21	9	1	sw.	Mina Wright
St. Joseph	Buchanan	967	18	77.2	− 1.6	96	6	57	23	31	3.17	+0.08	1.12	0	8	19	9	3	sw.	U. S. Weather Bureau
Tarkio	Atchison	916	23	76.0	− 1.0	97	6	54	23	35	2.76	−0.95	1.09	0	5	21	8	2	s.	Albert Volker
Trenton	Grundy	822	30	75.9	− 1.0	93	6†	58	23	28	2.73	−1.60	1.04	0	9	21	8	2	s.	W. H. Estes
Section means and	extremes	.....	..	76.0	− 1.0	98	27	52	23†	40	2.83	−1.61	1.82	0	7	19	9	3	s.	
State means and	extremes	.....	..	75.8	− 1.6	101	10†	48	4†	49	4.13	+0.08	4.65	0	8	18	9	4	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5. ‡ Indicates plus,

Daily Precipitation for July, 1927

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri							.36						.05	.26	.04		.03				T.	T.				.45			.48	.35		2.02
Brunswick‖	Grand	.05					.04	.35		.12				.50				.35					.37			.29	.28			.10	.05		2.50
Clifton Hill	Chariton							.51						.27	.06		.20	.05				.24				.39				.85		.09	2.66
Columbia***	Missouri	T.					.51	.13		T.				T.	.59		.05				T.	.08	.01			.58			.53	.16		.43	3.07
Downing	Mississippi						T.							.50			T.					.40				.36				.57			1.83
Fayette⦀	Missouri							.46						.11	1.10		.02					.12				1.55				.26		1.55	5.17
Fulton	do							.50						.05	.48	.20		T.					.38				.31			.62	.34		2.88
Gorin	Mississippi											.06		.12			.09					.53				.26				1.31			2.37
Hannibal***	do	.61					.50					.04			.10		.38					.64				.11			.09	.03		.01	2.51
Hermann‖	Missouri		.02					1.30						.20	.38	1.17							.30								.01		3.38
Jefferson City‖	do							.37						.77	.56	2.16		.25				.10	.07							.20	.62		5.10
Kirksville	Mississippi							.50						.40			.02													1.18			2.10
Louisiana	do	.96						.86				.05	T.		1.11		.42					.68								.40			4.48
Macon ‖	Chariton		.05				.10	.18						.22		.03		.66								.40	.10			.31			2.05
Mexico ‖	Mississippi							2.25							.11	.21							.02			T.				.62	.63		3.84
Milan ‖	Grand	.12					.05	.23								.62		.20					.53			.12				.67			2.54
Monroe City	Mississippi	.33					.43						.01		.10		.34					.29				.02			.27				1.79
Pacific‖	Meramec							.83						.03	.12	.35	T.						.19								.10		1.62
St. Charles	Missouri							.59					.06		.49							.86					.18			.10	.13		2.41
St Louis (1)***	Mississippi						1.04	.16			T.		.07		.24						.18	.83	T.							.18	.09		2 79
St. Louis (2)*	do						.70	.32					.26		.43						.02	.49	T.							.11	.03		2.36
Shelbina ⦀	do		.17					.41							.02	.04		.71					.40			.11	.04			.19	T.		2.09
Steffenville	do	.30					T.	.45					T.		T.		T.	.53				.10				.73				.30		T.	2.41
Union‖	Meramec							1.05						.01	.38	.30							.97								.45		3.16
Unionville ‖	Chariton						T.	.50						.30			.10					.50				.45				1.40			3.25
Warrenton	Mississippi		T.					.74					.03	T.	1.63		T.						.72								T.		3.12
Keokuk, Ia.***	do	T			T	T.	.02					.01	T.	T.	T.		.03		T.			.94				.21			.10			.07	1.38
Southeast Lowlands																																	
Benton	Mississippi	.25						.01					.13	.16	.50	.95	.09			.36			.03				.01			.17	.84	.15	3.65
Campbell‖	St. Francis		.10						.01					1.70		.45	1.41				1.77	.03									2.19	.05	7.71
Cape Girardeau‖	Mississippi							.02							2.06	1.40	.19				.86		.06								.75	.28	5.62
Caruthersville‖	do	.04	.58					T.					T			.05					.06	.16								T.	1.50	.89	3.28
Dexter‖	St. Francis							T.					T.	T.		.85	1.00			1.10		.08									.82	.02	3.87
Doniphan	Black														1.00	1.00					.20						.65			.15	1.34		4.34
Jackson	Mississippi		T.					.06						.82	2.46	.78	.08			.99			.08							.05	.50	.18	6.00
Marble Hill	Mississippi													.31	.82	.56				1.10							.30			.92	.51	.61	5.13
Morehouse	do												.12		.20	1.37	.85				2.56						.03		T.	.08	.74		5.95
New Madrid‖	do		.01	.05												.06	1.70	.01			.14										1.00	.40	3.37
Parma	St. Francis														.55	1.89			.23											.21	.84		3.72
Patton	Mississippi							.38						.77	.36	.35							.23								1.48	1.16	4.73
Poplar Bluff ‖	Black													.34	.75	.32				.64							T.			3.20			5.25
Sikeston‖	Mississippi		T.	T.										.40	.15	.35	1 81				.80	T.									.70	.10	4.31
Cairo, Ill.***	do	.45	.01					.01					T.	.02		.68	.52			.04		T.								.03	.87		2.63
Ozark Plateau.																																	
Arcadia ‖	St. Francis													.94	.33	.31	T.				T	.04	.11				.26				1.38	.82	4.19
Aurora	Neosho									.01				1.00	.96	.06		1.43			1.03	2.85	1.35							.77	1.49		10.95
Birchtree (near)	Black												1.75	1.00	.35						1 05	.05	.05							.44	.43		5.12
Bolivar	Osage														.04		.90				1.50	.35									.06		2.85
Caplinger Mills	Osage										1.59			.13	1.71	.10	T.	1.49			.05	4.02	.85			.04			.20	.02			10.20
Dean	Neosho	.08												1.65	1.88			.17			.13		1.34							.56	.44	.02	6.27
Eldon⦀	Missouri							.17						.14	.14	2.64		.02			.02	.17					.08			.39	.94		4.71
Farmington	St. Francis							.33					.24		1.90	.14				.28	.14		.32							T.	1.46	.97	5.78
Fredericktown⦀	do							.02						.35		.64							.43							.36		.42	2.22
Galena⦀	White														1.77	.05						.87	1.43										4.12
Gano	Meramec							.06					.07	.08	.67					.67	.76		.19				.76			.20	.58		4.04
Goodland	Black												.14		.80	.03					.57						.20				1.10		2.84
Greenville	St. Francis													.11	.36	1.25	.10			1.10	.39						.32			.07	.80		4.50
Hailey	White													.78	1.38			1.58				1.80	1.40							1.20	.24		8.38
Koshkonong	Black		.05											.21	.70	1.75	T.				.24	.26	.15								1.50		4.86
Lebanon ‖	Osage	.20						T.							.60	.12	.70	1.10			.20	25	.56				.75	.20	.08	.19	.63		5.58
Lockwood	do													.50	.62						4.65	1.93	.14				.25			.47			8.56
Mountain Grove‖	White	.03												.08	.69	.02	.73	.17			3.95	.38					.09			.85	2.47		9.46
Neosho	Neosho	T.									T.			2.10	1.70			.08			.03	.26	1.26					T.		2.05	40	T.	7.88
Owensville ‖	Gasconade		.40					.30						.45	.87	.20							.90								1.68		4.80
Rolla ‖	Meramec	T.					.30							.55	.18					.30	.24	.60				.13			.20	1.53			4.03
Seligman	Neosho													1.63	1.17						.10	.28	1.86							.51	.75	T.	6.30
Seymour (near)	White													.09	.75	.32	.25	.20			.76	.35	.62				T.	.30		.83	1.35		5.82
Springfield***	do									.31				1.48	1.36	T.	.54	.03			.48	1.43	.07			T.				1.02	.08		6.80
Steelville‖	Meramec		.15					.16						T.	.42	.15	.20					T.	.96							.08	.58		2.70
Stover ‖	Missouri													.36	.31	.30						.13	1.38							.64	1.45		4.57
Tuscumbia ‖	Osage		.16			T		.12						.46	.76	.76		.01			.01	.35	T.				.12			.20	.21		3.16
Willow Sprgs. ⦀ (near)	White	.48	.24												.93	.04		.12			2.26	1.12	.32							.29	1.21		7.01
Southwest Plain.																																	
Amoret	Osage										.50			2.22			.60				1.60								.95	.10	.13		6.10
Appleton City	do	.05					T.			.54				.56	.28		.61				1.25	2.40	.05			.08			T.	.42	.02	.05	6.31
Centerview	Missouri	.10												1.00	.03		.19					.63				1.03				.36	.15		3.49
Clinton	Osage		.05											1.20	.35	.02	1.55	.05			.35	.55						.06		.85			5.03
Concordia⦀	Missouri													.46												.05				.32	.05		0.88
Harrisonville‖	Osage	.18												.68	.11	.01		1.34			.16	1.59								.56	.41		5.04
Joplin*	Neosho	.04								T.			T.	1.59	.60		T.	.75				.12	.70	.40					.01	1.53			5.74
Lamar ‖	do	T.									T.				1.95	.15		2.00				1.50	.80				.05			.10	.20		6.75
Lamonte	Missouri							.03						.48	.21						.15	.64	.18			.18				2.40	.13		4.40
Marshall	do							.26		.04				.46	.05		.05				.33					.06				.19		.01	1.45
Nevada	Osage													1.24	.51			1.60			1.08	.12				T.				1.01	.26		5.82
Osceola⦀	do										.57			.47	1.25	.27		.10				1.64	.58							.18	.56		5.62
Warsaw	do						T							.25	1.38		1.05				.36		.21			.07				.15			3.47
Waverly ‖	Missouri	.22						.28		T.				.92		.02		.42				.41	.28			.07				.16	.20		2.98
Northwest Plateau.																																	
Albany⦀	Grand					T.	T.							1.00			.40																1.40
Bethany	do	.17					T.	T.				T.	T.	1.03		T.	.43				T.		.08			.52			.11	.05			2.39
Chillicothe⦀	do.	.19					.18	.29		T.				1.00	T.			.27			T.		.04			.19				.23			2.39
Conception	Missouri	.16					1.82							.79			.30				.04				T.	.11			T				3.22
Edgerton	do	.14					.11							1.03			.72				.12				T.				.10	.62			2.84
Gallatin ‖	Grand	.31					.27	.44						.98				.49					1.22			.83				.34			4.88
Grant City	do	.06					.04							1.24			.40									.59			.11				2.44
Kansas City***	Missouri	.07				T.	.01	T.				T.		.87	T.		.86				.28	T.			T.				.22	.02		T.	2.33
Kidder ‖	Grand	.53					.19	.38						.79				.44					.90			.65				.05			3.93
King City	Missouri																																....
Lexington ‖	do	.07						.03						1.20				.21				.07				.25				.17	.07		2.07
Liberty	do																																....
Maryville ‖	do	.15					.46	.60						.68			.11									.64			.07				2.71
Oregon	do	.13					.38						T.	1.54			1.61				.02				.01	.10			.02				3.81
St. Joseph***	do	.10				.62						T.		1.12		T.	1.11			T.	.02	T.			.02				.06	.12	T.	T.	3.17
Tarkio	do					.42								1.09			.95								.04				.26				2.76
Trenton	Grand	.08				.12	.10							1.04		.09	.26					.58			.17				.29				2.73

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for July, 1927

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	86	85	84	85	92	95	81	85	93	93	92	95	83	85	90	84	86	92	88	87	91	81	82	86	86	91	97	91	79	87	91	87.8
	Minimum	73	62	58	58	58	66	64	63	62	62	63	71	66	67	67	68	66	63	63	68	67	67	57	57	49	64	65	70	71	63	62	63.9
Columbia	Maximum	87	84	80	82	88	91	81	80	90	89	91	92	83	76	85	83	83	88	88	82	90	78	79	82	81	86	94	94	77	83	86	84.9
	Minimum	71	66	59	58	64	65	64	61	59	63	65	74	69	68	63	70	67	61	68	68	68	63	55	62	62	62	64	69	69	64	64	64.7
Fayette	Maximum	90	75	83	85	90	93	83	84	93	94	93	94	86	81	84	89	82	92	91	86	91	80	82	86	84	91	96	94	80	87	91	87.5
	Minimum	70	62	58	55	58	66	63	59	56	58	61	66	65	66	62	57	57	56	62	66	66	64	51	57	60	59	62	65	69	63	61	61.3
Hannibal	Maximum	88	81	76	80	87	93	81	84	88	89	91	89	86	79	88	84	84	91	86	88	90	76	79	85	81	88	93	93	80	82	87	85.4
	Minimum	73	66	60	58	66	65	68	59	61	64	64	73	72	69	67	70	68	63	71	64	68	64	58	61	67	63	64	70	70	67	65	65.7
Jefferson City §§	Maximum	88	83	81	84	87	90	82	83	89	90	92	93	84	72	87	85	84	88	91	81	90	78	77	84	83	89	94	92	80	84	90	85.6
	Minimum	71	69	59	59	61	67	64	62	57	63	64	72	68	68	62	67	69	63	67	69	69	67	58	57	60	62	66	71	69	68	66	65.0
Kirksville	Maximum	93	85	80	82	88	92	87	82	89	90	94	93	89	86	88	85	85	91	88	88	87	78	82	85	83	91	95	91	83	81	87	87.0
	Minimum	71	60	54	55	62	68	60	58	63	63	66	68	65	65	65	66	62	60	64	60	67	63	55	58	61	62	65	65	62	59	60	62.3
Louisiana	Maximum	94	85	86	84	85	92	92	86	84	90	92	90	90	90	90	92	91	90	90	91	91	80	84	87	87	92	96	94	88	83	85	88.7
	Minimum	72	67	65	62	55	58	64	55	56	59	58	69	72	70	64	66	66	60	68	67	66	65	55	56	64	62	62	73	70	66	62	63.7
Macon§§	Maximum	88	84	83	84	91	95	83	88	92	92	94	96	86	85	92	86	85	91	89	90	89	79	85	87	84	89	97	94	81	86	89	88.2
	Minimum	72	60	55	56	58	68	61	56	61	61	62	70	65	66	64	67	62	61	66	62	65	64	53	58	62	61	63	69	68	61	62	62.5
Mexico§§	Maximum	91	84	80	83	91	94	82	83	90	90	93	93	88	77	90	85	84	91	90	87	93	80	83	86	85	81	97	95	78	85	88	87.0
	Minimum	74	65	59	55	61	67	63	58	60	64	65	72	71	70	65	68	68	62	67	65	66	66	55	60	65	64	63	70	69	65	66	64.8
St. Louis(1)	Maximum	92	84	80	82	86	90	83	83	86	90	93	89	88	80	85	88	86	87	91	86	92	80	78	82	84	91	95	97	86	80	88	86.5
	Minimum	75	72	65	56	65	63	63	61	70	73	72	75	74	70	68	69	74	70	72	70	68	63	60	66	67	69	73	77	72	71	68	68.7
Unionville	Maximum	88	88	82	84	90	94	86	86	90	93	93	94	90	94	90	85	85	92	88	90	90	80	85	86	86	92	95	93	85	84	86	88.5
	Minimum	67	54	50	55	62	65	60	56	60	53	66	67	64	64	63	64	60	64	62	60	66	60	52	55	62	60	64	70	65	55	60	60.8
Warrenton	Maximum	94	90	78	83	89	89	89	83	87	89	93	91	87	84	87	87	84	88	88	83	91	87	78	84	84	89	94	94	91	82	89	87.3
	Minimum	73	66	50	53	59	69	63	57	59	65	67	70	72	68	65	68	69	62	68	66	65	66	55	59	63	63	67	71	70	68	65	64.5
Southeast Lowlands.																																	
Campbell	Maximum	92	89	85	84	89	93	94	86	88	94	95	97	91	90	87	90	89	89	90	84	90	88	81	84	86	91	94	94	91	79	88	89.1
	Minimum	71	69	60	57	57	56	69	64	57	60	66	66	68	67	69	68	70	66	64	66	64	70	60	57	59	61	64	67	70	70	70	64.6
Caruthersville	Maximum	94	88	86	85	91	96	95	88	96	97	96	96	96	95	87	91	90	90	92	92	95	87	81	86	82	94	96	98	93	77	85	90.8
	Minimum	76	74	68	65	69	66	74	69	66	70	72	71	74	73	72	68	68	73	71	71	72	71	65	63	65	67	73	74	75	72	72	70.3
Doniphan	Maximum	92	92	90	89	93	94	95	86	90	96	96	98	93	88	86	91	90	90	92	80	91	90	80	83	88	91	95	95	89	78	98	90.3
	Minimum	69	68	64	67	62	55	68	64	54	61	65	70	70	68	68	68	69	65	64	68	64	70	61	56	58	61	65	67	70	71	70	65.2
Jackson	Maximum	95	95	85	83	87	91	90	83	88	99	97	98	92	85	81	87	87	89	90	85	98	87	81	82	87	82	93	95	90	82	85	88.7
	Minimum	70	70	59	52	55	56	64	60	51	63	59	69	67	67	68	68	70	62	63	63	63	63	57	55	56	60	63	66	70	70	67	62.8
Poplar Bluff	Maximum	95	94	91	92	90	96	98	90	92	99	99	96	90	89	88	91	93	93	93	82	92	92	79	87	89	89	97	97	88	80	81	91.0
	Minimum	69	70	68	66	56	54	68	64	54	60	60	68	67	67	68	69	68	64	63	65	63	68	58	55	58	61	63	67	69	69	69	64.1
Sikeston	Maximum	97	88	86	86	90	95	94	85	97	101	101	99	99	93	89	90	91	91	92	86	95	87	80	84	89	89	95	98	90	81	88	91.2
	Minimum	72	71	61	57	60	61	69	65	58	65	71	71	69	68	69	69	71	67	66	66	68	71	60	59	60	62	65	70	71	70	70	66.2
Cairo, Ill.	Maximum	93	86	82	81	86	89	90	82	86	92	93	94	91	91	85	88	88	86	89	83	90	84	76	81	85	87	93	94	87	80	85	87.0
	Minimum	72	73	67	59	64	70	69	66	63	69	72	73	74	70	71	70	73	70	72	70	73	71	63	65	68	68	71	74	73	71	72	69.5
Ozark Plateau.																																	
Arcadia§§	Maximum	90	83	81	82	83	90	86	80	87	93	94	83	83	80	78	87	84	85	89	79	88	80	77	77	82	82	91	91	83	79	84	84.2
	Minimum	68	68	56	49	52	59	64	58	48	59	56	64	66	67	67	67	69	59	60	64	61	61	56	51	52	58	60	65	69	68	67	60.9
Aurora	Maximum	85	82	82	85	86	90	90	86	90	96	93	91	86	74	82	90	88	84	87	85	89	82	76	78	85	90	91	89	82	79	83	85.7
	Minimum	69	64	59	60	61	65	72	60	61	68	72	71	66	66	64	68	66	63	68	65	66	66	59	55	61	67	65	68	68	69	63	65.0
Birchtree	Maximum	89	83	84	84	85	92	91	84	83	94	96	88	80	81	..	88	86	86	91	85	85	84	78	78	84	88	92	93	88	80	86	[a]86.2
	Minimum	66	69	59	58	56	60	68	63	59	61	68	69	68	67	..	68	68	69	69	64	67	68	58	55	53	64	64	69	64	68	68	[a]64.2
Eldon §§	Maximum	89	87	84	83	88	93	89	95	..	96	93	95	88	73	86	82	87	87	91	81	89	81	79	82	84	91	93	92	82	87	87	[a]87.1
	Minimum	68	67	58	57	57	64	63	61	..	58	64	71	67	67	63	64	67	62	66	69	69	67	56	57	60	62	65	69	68	69	62	[a]63.9
Farmington	Maximum	95	85	82	84	90	94	86	82	94	95	99	89	86	79	78	93	88	86	94	76	93	80	78	82	88	88	98	96	82	83	89	87.5
	Minimum	69	69	69	51	54	62	58	61	52	63	58	67	64	68	67	68	65	61	62	64	63	66	57	54	56	61	63	65	71	69	65	62.6
Koshkonong	Maximum	90	84	84	80	89	95	94	85	91	96	95	97	89	84	80	91	88	89	93	82	86	88	79	80	86	90	93	94	88	76	88	87.9
	Minimum	70	70	61	59	61	64	69	64	60	66	69	73	69	68	69	69	70	67	68	70	68	68	61	59	61	67	69	70	73	69	69	66.8
Lebanon§§	Maximum	86	83	81	84	88	91	88	83	91	95	92	96	80	77	85	90	86	89	91	78	89	80	78	81	86	89	91	90	80	83	83	85.9
	Minimum	65	63	53	54	55	63	65	57	51	55	61	67	71	65	61	63	63	59	60	63	65	66	55	51	55	56	62	66	66	66	59	60.7
Mountain Grove	Maximum	87	84	84	83	84	90	90	84	88	97	95	95	86	77	82	87	88	90	93	77	86	83	80	80	84	88	92	89	80	82	86	86.2
	Minimum	67	60	55	58	61	64	70	60	53	61	66	70	70	66	67	68	67	62	64	63	64	66	58	54	57	65	65	69	67	67	62	63.4
Neosho	Maximum	81	83	88	87	87	90	90	89	88	94	94	88	88	77	82	89	90	87	91	90	87	87	79	80	85	88	89	89	88	81	80	86.6
	Minimum	68	59	54	51	58	62	68	55	51	63	61	66	65	66	61	65	69	60	64	69	68	66	57	52	58	65	64	65	67	70	59	62.1
Rolla	Maximum	89	86	86	88	90	93	90	86	91	95	93	93	93	85	86	87	87	92	90	84	93	90	89	84	84	89	94	93	86	83	85	88.8
	Minimum	71	67	57	56	60	65	65	60	58	64	65	71	73	67	63	66	68	62	64	67	67	66	56	56	58	62	65	69	60	68	66	63.9
Springfield	Maximum	81	82	81	82	86	89	88	81	88	92	90	91	75	74	81	88	83	86	89	79	85	78	75	77	82	87	88	88	75	79	83	83.3
	Minimum	70	66	63	61	64	66	68	63	63	67	74	73	69	67	65	65	66	66	69	65	67	65	59	59	62	68	69	71	69	69	65	66.2
Southwest Plain.																																	
Amoret	Maximum	88	89	88	89	90	94	90	90	90	95	96	92	80	84	88	88	88	88	92	83	90	91	82	83	91	91	92	84	82	86	88	88.5
	Minimum	62	69	69	69	62	67	64	62	57	66	70	69	64	67	63	63	62	62	68	64	70	60	56	57	50	66	67	68	64	60	60	63.8
Appleton City	Maximum	84	85	84	86	88	94	89	85	93	94	88	89	80	81	87	86	84	89	91	82	89	82	78	82	86	90	91	89	78	84	83	86.2
	Minimum	66	64	61	59	63	69	70	63	59	68	72	72	65	68	64	68	66	65	70	65	64	70	58	60	62	64	68	70	71	66	62	65.5
Centerview	Maximum	92	85	85	88	88	95	87	88	94	98	98	92	89	88	89	84	83	..	89	89	84	89	88	84	82	86	88	89	82	83	81	[a]87.9
	Minimum	61	64	59	60	62	59	68	64	72	72	72	73	65	69	66	68	69	..	69	72	67	70	68	56	63	72	74	73	71	62	66	[a]66.9
Clinton	Maximum	89	90	89	89	91	96	93	90	96	100	98	94	89	80	87	86	85	90	92	86	90	87	82	84	88	92	94	92	85	85	87	89.5
	Minimum	..	..	..	60	65	70	70	71	69	78	78	78	70	74	70	73	72	71	75	73	72	75	65	68	70	72	75	75	74	70	68	[c]71.5
Harrisonville§§	Maximum	83	87	83	86	89	95	89	85	95	98	89	88	77	80	86	84	84	88	86	80	88	80	79	81	87	90	91	88	74	85	84	85.8
	Minimum	62	59	59	59	62	67	65	62	60	64	70	70	64	64	64	67	61	62	68	66	65	67	56	58	62	63	67	69	68	60	60	63.5
Lamar§§	Maximum	83	86	86	89	89	93	93	85	91	99	91	93	86	78	85	93	84	86	90	81	88	80	77	82	85	90	92	91	80	82	86	86.9
	Minimum	68	66	63	59	62	66	70	62	58	61	70	71	68	66	65	69	67	65	67	70	68	69	60	61	61	65	69	70	71	70	61	65.8
Lamonte	Maximum	87	88	87	88	92	96	87	90	94	99	95	96	80	86	91	89	88	94	91	86	91	83	85	87	87	94	96	95	78	87	88	89.5
	Minimum	69	60	56	58	63	67	65	60	60	61	68	71	65	68	63	68	64	59	67	68	69	65	54	56	61	62	67	68	68	63	67	63.9
Marshall	Maximum	..	..	..	..	..	93	92	90	96	..	..	96	91	80	93	80	93	94	91	93	88	93	93	88	89	92	98	93	83	87	92	[g]90.8
	Minimum	..	..	..	..	..	70	65	62	63	..	..	66	65	69	64	65	66	60	65	64	70	65	57	56	70	61	65	68	71	65	60	[g]64.7
Nevada	Maximum	84	88	83	93	90	96	90	90	94	98	90	90	85	83	90	93	88	90	93	83	93	78	77	79	85	89	90	90	83	81	84	87.7
	Minimum	65	65	62	56	65	69	69	62	63	69	72	72	65	67	65	64	63	65	65	65	65	63	57	58	63	64	70	70	70	67	61	65.0
Warsaw	Maximum	86	87	85	87	91	95	90	87	92	98	93	95	87	77	87	88	87	90	95	83	90	81	84	83	85	91	89	93	84	83	89	88.1
	Minimum	55	58	56	56	57	64	70	60	54	62	67	71	66	68	62	67	61	61	60	71	67	65	66	56	59	59	64	62	67	65	63	62.5
Northwest Plateau.																																	
Chillicothe §§	Maximum	87	87	83	86	91	95	85	86	93	95	96	94	82	88	89	84	87	91	87	89	91	82	86	85	87	92	97	91	82	86	89	88.5
	Minimum	66	58	53	58	61	68	60	64	63	58	70	71	63	65	65	68	61	59	66	64	64	62	53	54	63	69	63	72	68	59	58	62.8
Grant City	Maximum	85	87	84	86	90	94	83	88	93	95	97	96	88	86	89	83	78	88	86	87	91	80	82	78	81	86	95	87	78	77	79	86.4
	Minimum	66	60	55	60	64	62	61	64	63	63	72	72	62	64	64	63	60	62	63	63	66	59	56	58	60	61	68	70	70	60	67	63.2
Kansas City	Maximum	83	85	82	87	90	95	84	84	93	92	90	91	82	85	88	85	80	88	82	84	88	80	79	82	86	89	94	89	74	81	85	85.7
	Minimum	65	65	63	63	68	73	71	67	69	70	77	75	65	68	70	65	66	69	74	67	74	65	60	65	67	69	74	72	70	64	67	68.3
Kidder§§	Maximum	82	84	80	84	88	93	81	83	90	91	94	92	80	84	86	83	82	89	82	85	89	79	80	82	83	87	93	88	78	81	86	85.1
	Minimum	63	55	54	56	61	66	59	62	60	60	67	69	62	63	63	65	59	60	65	65	65	60	53	56	61	60	65	65	68	57	57	61.3
Lexington§§	Maximum	85	85	87	85	92	96	89	89	94	96	93	92	89	86	89	86	86	91	89	87	90	89	89	85	89	91	96	90	91	85	87	89.3
	Minimum	67	60	60	60	64	71	67	63	63	65	74	72	65	69	68	70	65	64	72	69	73	66	57	59	63	65	71	75	69	63	65	66.3
Maryville	Maximum	87	89	84	87	89	93	83	84	93	92	95	91	87	88	87	81	85	91	83	86	93	86	84	84	87	89	96	87	83	84	89	87.6
	Minimum	65	59	59	61	64	65	61	64	63	62	69	74	64	64	65	64	60	63	64	66	70	60	55	58	62	62	69	71	64	63	65	63.7
Oregon	Maximum	87	90	90	90	91	95	88	92	94	97	95	94	86	88	90	83	86	91	86	90	92	87	85	85	87	94	97	89	88	87	90	89.8
	Minimum	66	58	59	64	67	69	62	63	68	65	74	75	64	64	67	65	61	64	67	68	72	62	58	61	63	64	69	74	64	59	63	65.1
St. Joseph	Maximum	85	88	85	89	92	96	85	88	92	95	94	93	82	85	89	83	82	91	84	86	89	84	81	84	85	91	96	87	82	82	86	87.5
	Minimum	67	62	61	64	68	71	67	67	69	64	76	75	65	69	68	65	64	66	70	69	73	64	57	63	66	64	70	75	68	61	63	66.8
Trenton	Maximum	85	86	85	86	89	93	86	87	89	90	93	92	87	84	85	84	83	90	85	86	91	80	81	83	81	87	93	88	80	81	85	86.3
	Minimum	70	60	59	60	64	70	64	65	71	62	72	73	65	68	68	70	63	65	67	67	68	62	58	61	62	63	68	78	61	63	62	65.5

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[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 8-24-27—915.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXXI. COLUMBIA, MO., AUGUST, 1927. No. 8.

GENERAL SUMMARY.

August, 1927, was distinctly a cool month for summer, and it made the third consecutive month experiencing subnormal warmth in all Missouri. The mean temperature was 71°, nearly 5° cooler than it normally is during August and only about 2° warmer than a normal September, whereas August usually is 7° warmer than September. This August also was the sixth consecutive month wetter than normal.

The subnormal average temperatures for August resulted from persistently cool days rather than unusually low minima. In fact, lower minima have occurred in other years, and one month, August, 1915, even averaged cooler than the current month. However, it was the second August in the past 40 years in which the value 100° was not recorded in some part of the State, the maximum 97° being the lowest of record. In spite of the frequent rains during the first three weeks, the average total number of sunshine hours was 282. This is about 66 per cent of the possible and only about 5 per cent less than the normal, yet, the Sun apparently failed to play up to his usual fiercest chromatic scale.

The month was practically free from damaging storms and destructive winds, and there was not a single report of hail anywhere in the State. A few severe local thunderstorms occurred but there was no damage reported. One Ed. Hollaway of Boone County was killed by lightning the afternoon of the thirteenth. Corn made slow advance until the last week when more favorable weather set in. More than half was earing and and on up to the dough and denting stage. About one-fifth of the crop probably will not mature being too backward.

TEMPERATURE.

The monthly mean temperature for the State, 68 stations reporting, was 71.1°, or 4.9° below the normal, and only about 2° warmer than a normal September. Except in 1915, no other August since the beginning of temperature records in 1888 has been as cool. There was a remarkable sameness about the temperature distribution, as, when the values are expressed to whole numbers, the average deficiency was 5° in all sections. Temperatures were 90° or higher on an average of only four days, the maximum being 97°, which is the lowest of record, and is the second time in 40 years that the value 100° was not recorded at one or more stations in August. The lowest temperature was 39°, recorded at Goodland, in the eastern Ozark hills, on the 28th, but lower minima have been recorded in past years although not often.

PRECIPITATION.

The average precipitation for the State, 104 stations reporting, was 5.06 inches or 1.38 inches more than the 56 years' average, and 0.57 inch less than the same month one year ago. All sections, except the southeastern lowlands which had a small deficiency, received an excess of precipitation. Excessive amounts occurred in the southwestern counties where eight to thirteen inches and more were general. The heaviest monthly total was 13.87 inches at Lamar; and the heaviest 24-hour fall was 7.76 inches at Caplinger Mills. This latter amount has been exceeded only three times in August in the last 40 years. All local streams went out of banks resulting in the usual destruction of crops and other property. Rain fell on an average of 9 days, compared to the normal of 7 days. Only scattered showers occurred after the 23d.

Excessive rain on the 8th, and for a second time, from the 14th to the 16th, caused the small rivers and creeks in the southwest part of the State to overflow, inundating thousands of acres of bottom lands, especially in Cedar and Benton Counties, and in Lawrence and Jasper Counties. It was one of the worst floods in many years in that part of the State, and the damage was heavy. Railroads were damaged by washouts; and crops were totally destroyed in the narrow valleys. Loss was heavy but no estimate in dollars and cents was obtainable.

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MISCELLANEOUS PHENOMENA.

Fogs, dense.—7th, 8th, 17th, 20th, 22d, 24th, and 30th.
Hail —None reported.
Halos, lunar.—5th and 13th.
Halos, solar —3d, 6th, 15th, 24th, 26th, 27th, and 30th.
Thunderstorms.—6th, 7th, 8th, 10th, 11th, 12th, 13th, 14th, 15th, 16th 17th, 18th, 22d, 23d, and 29th.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.02	87	70	284	67	3,543	4.8	20	nw.	8
Hannibal	30.02	86	..	...	..	4,128	5.5	22	n.	8
Kansas City	30.02	82	61	317	75	5,576	7.5	40	n.	11
St. Joseph	30.01	87	62	302	71	3,823	5.1	28	nw.	22
St. Louis	30.03	77	62	230	54	5,258	7.1	62	sw.	7
Springfield	29.98	89	72	263	63	5,330	7.2	30	nw.	8
Cairo, Ill	30.01	86	68	...	.	4,693	6.3	35	n.	13
Keokuk, Iowa	30.04	77	58	294	69	2,833	3.8	44	sw.	7

COMPARATIVE DATA FOR AUGUST.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	74.0	−1.6	110	48	7.25	−3.80	....	0	11	....	....	....
1889	73.5	−2.1	101	52	1.96	−1.49	....	0	14	....	....	....
1890	73.3	−2.3	104	49	4.84	+1.39	....	0	9	....	....	....
1891	73.2	−2.4	108	38	5.34	+1.89	....	0	8	....	....	....
1892	74.3	−1.3	100	40	2.42	−1.03	4.55	0	6	17	8	6
1893	72.8	−2.8	100	40	2.20	−1.25	5.60	0	4	18	10	3
1894	77.0	+1.4	111	39	1.58	−1.87	3.07	0	5	14	16	1
1895	75.3	−0 3	104	48	4.23	+0.78	3.50	0	8	15	11	5
1896	76.6	+1.0	108	41	3.25	−0.20	4.80	0	6	17	10	4
1897	74.1	−1.5	108	41	2.39	−1.06	5.00	0	6	19	9	3
1898	75.8	+0.2	103	44	3.03	−0.42	4.75	0	5	17	10	4
1899	78.8	+3.2	107	49	3.35	−0.10	4.28	0	7	18	10	3
1900	80 3	+4.7	105	52	3.51	+0.06	2.77	0	6	19	9	3
1901	78.4	+2.8	109	47	1.88	−1.57	4.33	0	5	19	9	3
1902	75.0	−0.6	103	47	6.16	+2.71	7.84	0	10	14	11	6
1903	74.4	−1.2	102	43	5.40	−1.95	6.40	0	10	16	11	4
1904	73.7	−1.9	100	43	5.46	+2.01	4.43	0	8	16	10	5
1905	76.4	+0.8	102	48	4.69	+1.24	3.94	0	8	19	7	5
1906	76.6	+1.0	101	40	4.72	+0.27	3.55	0	11	14	10	7
1907	77.3	+1.7	109	47	3.71	+0.26	6.30	0	9	17	8	6
1908	76.4	+0.8	102	46	3.87	+0.42	3.57	0	8	17	9	5
1909	79.5	+3.9	110	40	0.55	−2.90	4.00	0	2	24	6	1
1910	74.7	−0.9	103	40	2.77	−0.68	5.80	0	6	15	9	7
1911	75.4	−0.2	109	41	4.20	+0 55	5.17	0	7	15	8	8
1912	76.2	+0.6	104	41	4.19	−0.74	2.62	0	9	17	8	6
1913	82.8	+6.9	110	41	1.06	−2.51	3.51	0	3	22	7	2
1914	78.0	+1.8	106	49	4.25	+0.60	8.50	0	9	15	9	7
1915	69.8	−6.5	98	37	7.86	+4.15	8.20	0	12	12	9	10
1916	79.2	+2.9	107	41	4.05	+0.49	6.48	0	7	19	7	5
1917	73.3	−2.9	104	38	4.45	+0.94	5.20	0	9	16	8	7
1918	81.8	+5.8	111	45	3.34	−0.27	3.42	0	8	17	9	5
1919	75.7	−0.5	106	44	4.29	+0.49	7.00	0	8	17	9	5
1920	73.1	−3.0	102	43	4.78	+0.89	5.77	0	9	15	8	8
1921	76.8	+0.8	109	48	5.27	+1.63	5.20	0	9	14	0	7
1922	77.5	+1.2	107	46	2.40	−1.60	3.87	0	6	18	18	5
1923	77 3	+1.3	108	42	3.99	+0.31	5.25	0	8	16	9	6
1924	77.2	+1.2	106	48	4.14	+0.46	3.50	0	7	19	8	4
1925	76.5	+0.5	107	45	3.45	−0.23	4.26	0	6	19	8	4
1926	77.5	+1.5	106	50	5.63	+1.95	5.83	0	10	15	9	7
1927	71.1	−4.9	97	39	5.06	+1.38	7.76	0	9	14	10	7

Climatological Data for August, 1927

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	47	71.6	− 2.2	95	6	53	20†	34	4.99	+1.10	1.05	0	12	16	0	15	se	O. K. Benecke
Clifton Hill	Randolph	731	27	69.8	− 6.4	92	6	51	20†	30	4.82	+0.79	1.44	0	9	12	14	5	.....	Dr. A. J. Bradsher
Columbia	Boone	748	36	70.0	− 5.6	91	6	53	24	26	5.01	+1.97	2.82	0	11	11	11	9	se.	U. S. Weather Bureau
Downing	Schuyler	876	5	71.2	......	97	6	48	9	34	3.14	−0.38	1.08	0	5	15	13	3	sw.	James Taylor
Fayette	Howard	661	46	70.2	− 5.9	94	6	49	24†	38	4.71	+1.49	2.07	0	8	..	..	..	......	J. D. Settle
Fulton	Callaway	818	38	70.0	− 6.5	92	7	49	27	29	6.45	+2.94	3.30	0	12	17	7	7	......	Chamber of Commerce
Gorin	Scotland	700	39	....	......	..	..	..	..	..	5.33	+2.33	1.94	0	6	8	13	10	sw.	J. W. Pulliam
Hannibal	Marion	534	34	70.3	− 4.7	92	6	52	20	27	2.92	−0.46	1.04	0	8	15	7	9	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	71 3	− 5.4	93	6	50	28	38	3.20	+0.14	0.80	0	9	19	3	9	e.	Miss Emma Swift
Kirksville	Adair	969	37	70.4	− 3.6	94	6	50	9†	32	3.44	+0.12	2.15	0	7	18	8	5	ne.	Prof. J. S. Stokes
Louisiana	Pike	469	32	70.2	− 4.8	92	7	45	27	35	3.79	+0.06	1.27	0	8	22	5	4	e.	J. T. Farrell
Macon	Macon	875	27	70.7	− 5.6	92	6	51	26	36	4.08	+0 80	1.40	0	10	14	8	9	se.	W. C. Brown
Mexico	Audrain	800	37	71.6	− 4.5	93	6	53	24	29	3.45	+0.20	0.92	0	9	20	2	9	e.	Mrs. Abbie Snoddy
Monroe City	Monroe	748	6	....	......	..	..	..	..	..	3.80	......	1.15	0	9	13^{d}	9^{d}	5^{d}	sw.	J. S. Conway
St. Charles	St. Charles	456	38	71.4	− 5.3	93	6	50	24	34	4.19	+0.73	1.48	0	6	8	13	10	s.	L. C. Saeger
St. Louis (1)	St. Louis City	568	52	72.2	− 5.3	91	6	53	3	22	2.60	−0.06	1.05	0	9	11	11	9	n.	U. S. Weather Bureau
St. Louis (2)	....do	578	14	71.4	− 5.8	90	6	53	3	23	2.73	−2.88	1.29	0	8	20	5	6	ne.	St. Louis University
Shelbina	Shelby	779	33	....	......	..	..	..	..	..	3.48	+0.63	1.35	0	10	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	28	71.8^{a}	− 4.9	96	14	51	24	36	2.95	−0.52	0.85	0	7	18^{a}	8^{a}	4^{a}	n.	Frank Hall
Unionville	Putnam	1,062	33	70.4	− 4.6	95	6	45	9	37	2.88	−1.08	1.20	0	7	5	15	11	sw.	Geo. W. Davis
Warrenton	Warren	816	44	71.0	− 5.4	91	5	49	24	29	5.68	+2.50	2.42	0	10	13	10	8	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	614	54	70.6	− 4.4	93	6	53	20	27	3.10	−0.14	1.19	0	8	9	14	8	e.	U. S. Weather Bureau
Section means and	extremes	.....	..	70.8	− 5.0	97	6	45	9†	38	3.94	+0.49	3.30	0	9	14	9	8	sw.	
Southeast Lowlands.																				
Benton	Scott	340	1	....	......	..	..	..	..	..	3.94	......	2.00	0	9	..	..	..	......	E. R. Tirmenstein
Campbell	Dunklin	314	1	73.0	......	92	31	51	21†	32	5.14	......	3.81	0	6	11	14	6	n.	Jeff. King
Caruthersville††	Pemiscot	265	30	75.8	− 3.9	94	12†	55	21	27	3.55	−0.02	1.09	0	7	14	7	10	se.	John T. Markey
Doniphan	Ripley	344	22	72.6	− 4.8	92	6†	48	27	30	5.31	+1.00	2.25	0	8	4	20	7	ne.	W.W. Martin
Jackson	Cape Girardeau	428	35	70.8	− 5.4	92	13	46	25†	35	2.55	−1.06	1.24	0	8	9	6	16	s.	John G. Putz
Marble Hill	Bollinger	470	31	71.8	− 5.2	97	14	46	25	35	4.08	+0.58	3.06	0	5	18	9	4	n.	R.A. DeWitt
Morehouse	New Madrid	289	25	....	......	..	..	..	..	..	2.47	−1.34	0.88	0	7	17	13	1	sw.	John A. Spence
Parma	New Madrid	281	5	....	......	..	..	..	..	..	3.74	......	2.02	0	5	..	..	..	......	H. W. Kendall
Patton	Bollinger	605	17	....	......	..	..	..	..	..	3 88	−0.66	1.72	0	9		..	..	......	S. P. Presnell
Poplar Bluff	Butler	339	22	73.3	− 4.7	96	1†	48	25	37	6.87	+2.60	2.88	0	8	20	5	6	s.	J. H. Wolpers
Sikeston	Scott	318	21	73.6	− 4.0	95	1	51	25	32	2.62	−1.19	1.17	0	5	13	7	11	ne.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	358	51	73.8	− 4.0	89	1	57	24	22	1.57	−1.36	1 40	0	8	9	12	10	n.	U. S. Weather Bureau
Section means and	extremes	....	..	72.7	− 4.7	97	14	46	25†	37	3.83	−0.18	3.81	0	7	13	11	7	n	
Ozark Plateau.																				
Arcadia	Iron	926	45	67.8	− 6.7	86	1†	42	27	33	2.58	−1.14	0.99	0	7	24	0	7	nw	Arcadia College
Aurora	Lawrence	1,370	36	71.0	− 5.8	89	13	53	21	28	11.05	+6.78	2.66	0	11	9	9	13	sw.	W. T. Troughton
Birchtree (near)	Shannon	1,000	31	70.7	− 5.2	90	13	49	26	33	9.76	+5.37	3.31	0	10	14	8	9	ne.	V. H. Kirkendall
Bolivar††	Polk	1,071	32	71.1	− 5.9	90	13	52	25	29	4.84	+1.16	2.02	0	16	14^{a}	7^{a}	9^{a}	......	Southwest Baptist College
Dean ‡‡	McDonald	1,000	27	....	......	94	14	..	..	..	7.83	+3.56	1.73	0	14	16	6	9	e.	H. E. Dean
Eldon	Miller	934	30	70.6^{c}	− 5.8	92	6	50	24†	32	3.19	−0.79	1.22	0	9	7^{c}	12^{c}	9^{c}	sw.	E. H. Shepherd
Farmington	St. Francois	918	15	69.8	− 5.0	94	6	45	25	36	4.59	+1.21	2.18	0	8	11	14	6	ne.	Robert Forsyth
Gano ‡‡	Dent	1,250	22	70.0	− 6.1	90	6†	46	27	33	4.83	+0.42	2.13	0	9	14	12	5	s.	A. C. Leach
Goodland	Iron	1,000	32	69.8	− 4.7	93	6†	39	28	44	2.96	−1.07	0.77	0	6	14	10	7	s.	F. M. Adams
Greenville	Wayne	381	4	70.3^{c}	......	90	6†	43	27	31	3.97	......	1.56	0	9	13	7	11	s	Wm. P. Owens
Hailey	Barry	1,350	1	....	......	..	..	..	..	..	8.72	......	1.77	0	11	16	8	7	w.	A. W. Madison
Koshkonong	Oregon	958	25	73.2	− 4.5	92	13	51	25	27	5.47	+1.02	1.96	0	13	10	6	15	ne.	R. M. Hitt
Lebanon	Laclede	1,265	38	69.6	− 6.7	92	6	48	25†	33	12 39	+8.86	3.43	0	14	15	11	5	ne.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	20	69.4	− 7.8	83	7	53	26	20	11.13	+6.96	3.07	0	10	13	9	9	nw.	C. S. Crow
Mountain Grove(near)	Wright	1,463	25	70.4	− 4.7	90	6	49	24†	31	9 13	+4.73	2.45	0	12	11	9	11	sw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	71.8	− 5.1	90	7†	50	20†	31	7.57	+3.48	1.32	0	13	19	3	9	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	26	71.2	− 4.6	93	6	51	24†	30	4.47	+0.39	1.11	0	8	15	6	10	w.	Prof. Elmo G. Harris
Seligman	Barry	1,542	24	71.5^{c}	− 4 1	90	7	50	21	32	7.81	+3 82	1.94	0	15	10^{a}	16^{a}	4^{a}	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,642	20	69.5	− 5.5	86	6†	47	25	30	8.97	+5.13	2.13	0	10	14	11	6	s.	Ira H. Hailey
Springfield	Greene	1,324	38	70.5	− 5.2	89	13	53	25	24	8.68	+4.37	2.81	0	11	14	14	3	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	70.4	− 5.5	94	6†	39	28	44	7.11	+3.12	3.43	0	11	14	9	8	sw.	
Southwest Plain.																				
Amoret	Bates	831	19	72.6	− 3.8	91	6	50	20	33	7.44	+3.43	2.48	0	11	19	8	4	s	Andrew Rood
Appleton City	St. Clair	853	32	71.8	− 6.0	92	6	54	20†	29	5.40	+1.66	2.60	0	9	7	23	1	se.	W. G. Bigelow
Centerview	Johnson	872	39	70.3^{a}	− 6.7	91	31	51	21	32	2.90	−0.69	0.80	0	8	16^{a}	11^{a}	3^{a}	e.	E. A. Markey
Clinton	Henry	765	33	75.8	− 1.0	92	13	54	3	23	4.02	+0.66	1 03	0	10	13	15	3	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	49	70.1	− 5.7	92	6	50	20	29	6.15	+2.00	1.39	0	15	1	8	22	se.	John H. Patterson
Lamar	Barton	980	39	72.0	− 5.5	90	6†	55	20†	27	13.87	+9.69	5.00	0	9	16	4	11	ne.	Jesse A. Mann
Lamonte	Pettis	867	25	72.7	− 4.0	95	6	51	20†	35	3.77	+0.05	1.65	0	9	20	8	3	sw.	J. E. Wheeler
Marshall	Saline	779	37	....	......	95	6	47	9	34	2.80	−0.86	....	0	10	..	..	..	......	Dr. W. H. Black
Nevada	Vernon	862	33	71 4	− 5.5	90	13	53	25	32	13.51	‡10.00	5.26	0	8	16	8	7	ne.	George A. Kaupp
Warsaw	Benton	687	26	71.8	− 5.6	93	7	51	25	35	4.56	+0.27	1.60	0	6	16	10	5	w.	Everett Martin
Section means and	extremes	.....	..	72.1	− 4.9	95	6	47	9	35	6.44	+2.62	5.26	0	10	14	11	6	se.	
Northwest Plateau.																				
Bethany	Harrison	916	34	70.6^{g}	− 4.3	90	11†	48	9	33	3.65	−0.23	0.90	0	9	7^{g}	14^{g}	3^{g}	sw.	M. H. Moulton
Chillicothe	Livingston	779	17	70.8	− 5.3	92	6†	48	20	33	3.89	−0.77	1.10	0	10	12	12	7	ne.	Wm. J. Olenhouse
Conception	Nodaway	980	37	71.4	− 3.2	95	6	49	9	32	6.03	+2.55	1.80	0	8	10	17	4	ne.	Fr. Adelhelm Hess
Edgerton	Platte	856	6	70.4^{b}	......	92	6	47	20	35	3.25	−0.59	0.86	0	9	18	6	7	s	Fred L Stiff
Grant City	Worth	1,134	22	69.0	− 5.9	93	6	51	3†	31	4.08	+0.45	1.06	0	11	16	14	1	s.	W. P. Spillman
Kansas City	Jackson	963	37	71.4	− 5.2	91	6	55	9	22	5.11	+0.36	0.97	0	14	9	15	7	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	33	68.0	− 7.7	89	6	49	9†	34	6.35	+2.44	1.93	0	10	12	9	10	se.	Linn Terry
King City	Gentry	1,095	1	....	......	..	..	..	..	..	3.74	......	1.69	0	8	..	..	..	......	D. B. Oliver
Lexington	Lafayette	688	41	73.2	− 2.8	94	6	53	20	27	4.61	+1.38	1.85	0	13	16	10	5	se.	Miss Carrie Loomis
Liberty	Clay	859	36	73.0	− 4.0	93	6	52	20†	32	3.84	−0.09	1.36	0	9	13	13	5	se.	Pryor Carpenter
Maryville	Nodaway	1,169	36	70.3	− 3.3	95	6	48	9	31	4.36	+0.50	1.28	0	11	19	1	11	s.	J. R. Brink
Oregon	Holt	1,048	70	72.4	− 2.6	92	6	50	9	31	5.09	+1.12	1.28	0	10	16	12	3	sw.	Mina Wright
St. Joseph	Buchanan	967	18	71.4	− 5.6	90	6	53	9	27	4.46	+1.12	1.40	0	12	14	12	5	se.	U. S. Weather Bureau
Tarkio	Atchison	916	23	69.8	− 5.8	93	6	47	9	31	3.75	−0.12	0.81	0	10	10	15	6	se.	Albert Volker
Trenton	Grundy	822	30	70.9	− 4.3	88	6	52	9	26	4.61	+0.99	1.59	0	10	18	10	3	s.	W. H. Estes
Section means and	extremes	.....	..	70.9	− 4.6	95	6	47	9†	35	4.45	+0.65	1.93	0	10	14	11	6	s.	
State means and	extremes	.....	..	71.1	− 4.9	97	6†	39	28	44	5.06	+1.38	7.76	0	9	14	10	7	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem. R. F. D. No. 5. ‡ Indicates plus.

Daily Precipitation for August, 1927

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri			.21					.01	1.02				2.15	.44			.87	.07	.11				.13									5.01
Brunswick‖	Grand	.07		.57				.33	.46	.20			.28	1.05	.85			.30	.10	.03				.75									4.99
Clifton Hill	Chariton		.77	.05				.64	.55					1.44	.27		.53		.25		T.			.32									4.82
Columbia***	Missouri		.26	.01				.03	1.02					1.90	.96		.50	.08	.11	.02				.12									5.01
Downing	Mississippi		.20					.48						1.08			.33	T.						1.05									3.14
Fayette‖	Missouri		.29					.40	.83					2.07	.31			.60	.07					.14									4.71
Fulton	do	.09		.34					.90	.66				3.30	.48	.04		.14	.30	.02	.08			.10									6.45
Gorin	Mississippi		.20					1.29						.25			.42						1.23	1.94									5.33
Hannibal***	do		1.04					.32	.22				T.	.53	.20		.40	T.		T.			.01	.20									2.92
Hermann‖	Missouri	T.		.30					.11	.65				.12	2.72	.03		.33	.10						.02								4.38
Jefferson City‖	do			.10					.70	.51				.10	.69			.80	.10	.13				.07									3.20
Kirksville	Mississippi		.41					.02	.26					.23					.20				.17	2.15									3.44
Louisiana	do		1.27	.56				.10	.32					.85	.15		.19	T.		T.			T.	.35									3.79
Macon ‖	Chariton			1.40				.37	.09	.26				.80	.10			.22	.10					.71	.03								4.08
Mexico ‖	Mississippi	.02		.62					.02	.92				.41	.70			.30	.28					.18									3.45
Milan‖	Grand		.46				T.		.05	.22			.12					.10						1.10									2.05
Monroe City	Mississippi		1.15					.03	.88					1.09	.01		.30	.03					.29	.02									3.80
Pacific‖	Meramec	T		.13					.28	.15				.20	.72	T.		.38	.02	T.	.06												1.94
St. Charles	Missouri		T.	.30				T.	1.33				T.	.99	1.48			.07		T.				.02									4.19
St. Louis (1)***	Mississippi		.21	.08				.67	.51				.01	.95	.03		T.	.02	T	T			.12										2.60
St. Louis (2)*	do		.10	.07				.62	.43				T.	1.29	.20		.01	.01	T.					T.									2.73
Shelbina ‖	do			1.35					.05	.42				.65	.48	.02		.23	.04					.21	.03								3.48
Steffenville	do		.45	.10				.20	.65					.85			.15						T.	.55									2.95
Union‖	Meramec			.18	.02				.92	.15				.48	.90	.09		.39	.06	.07					.01								3.27
Unionville ‖	Chariton	T.	.45					.50						.23			.30		.20				.10	1.10									2.88
Warrenton	Mississippi	T.	T.	.24				.09	2.42				.30	1.86	.50		.12	.02		T.	.10			.03	T.								5.68
Keokuk, Ia.***	do	T.	.14					1.19	T.				.01	.57			.25	.01	T.				.20	.73									3.10
Southeast Lowlands																																	
Benton	Mississippi			.20	.01			.45	.50					.10	2.00	.04		.12							.52								3.94
Campbell‖	St. Francis				.71	.01			.30	.15					3.81			.16															5.14
Cape Girardeau‖	Mississippi			.09	.02				.36	.28					2.70			.49	.02	.03					.01								4.00
Caruthersville ‖	do			1.09	.55			.08		.41					.85			.52		.05													3.55
Dexter‖	St. Francis			.66	.64				.34	.04					3.38			.05	.04	.11													5.26
Doniphan	Black			.41				.46	1.53	.05					2.25	.35		.18	T.											.08			5.31
Jackson	Mississippi			.13					.30	.13				.21	1.24			.44		.02				.08									2.55
Marble Hill	Mississippi			.22						.40					3.06			.28						.12									4.08
Morehouse	do			.88	.60			.04	.27					T.	.18			.26	24														2.47
New Madrid‖	do			.82	.30				.03	.25					1.25	.16		.30	.26	.25					.01								3.63
Parma	St. Francis			.66					.12	.05					2.02			.89															3.74
Patton	Mississippi			.41	.09			.03	.27					.18	1.72			.92		.03				.23									3.88
Poplar Bluff	Black		1.42	.55				1.02	.20					2.88				.29	.39	.12													6.87
Sikeston‖	Mississippi			.56	.65				.12					1.17					.12														2.62
Cairo, Ill.***	do		T.	.05				.01	.01					.49	.91		T.	.07		.02				.01									1.57
Ozark Plateau.																																	
Arcadia ‖	St. Francis			.77	.22				.29	.03					.99			T	.13						.15								2.58
Aurora	Neosho		05	.98	T.	.04		1.85	1.05		.03				2.66	.50	2.66	1.10						.13				T.	T.				11.05
Birchtree (near)	Black		.15	1.00	.32			.38	3.31				.33	.42	2.59			.95							.31								9.76
Bolivar	Osage			.50	.02	.02		.12	2.02	.02	.30	.01			1.24	.13	.01	.15	.02					.25				.02	.01				4.84
Caplinger Mills	Osage		.18	.72				.06	7.76	.04	T.		.03		2.27	.07	1.81	.11	T.	T.				.60				.02	T.				13.67
Dean	Neosho	1.34	.19	1.73	.01		T.		.04		.63				.26	.75	.07	.90	.05					1.15					.66	.05			7.83
Eldon‖	Missouri			.32	.02				1.22	11					.95	.04		.29	.20	.04													3.19
Farmington	St. Francis		T.	1.20	.02			T.	.24	T.				.66	2.18		T.	.09	.02	T.				.18									4.59
Fredericktown‖	do			1.05	.10				.25							.80						.35											2.55
Galena‖	White			1.40	.32			.75	.73		.18				2.75		2.25	1.05	.15														9.58
Gano	Meramec		.58	.55				.10	.90				.18	T.	2.13		.05	.31		.03													4.83
Goodland	Black		.54	.68					.60						.77			.30			.07												2.96
Greenville	St. Francis			.45				.10	.30			1.56			1.20		.02	.24	.03					.07									3.97
Hailey	White	.21	.50	1.27				.63	.79		.72				1.77	.78	.50	1.10						.45									8.72
Koshkonong	Black	.17	.12	.17	.14			1.11	.36	.04			.17		1.96	.11	.21	.89												.02			5.47
Lebanon ‖	Osage			1.45	.50				2.90	.45	T.	.45			3.43	.55	.10	.83	1.30	.05	.10			.10	.18								12.39
Lockwood	do		.19	.68			.32	3.07			.11				1.94	.60	2.28	1.76	T.					.18									11.13
Mountain Grove	White		.45	1.74				.59	1.55				.21	.36	2.45	.48	.83	.38	.07											02			9.13
Neosho	Neosho	.14	.03	1.32	.03	T.		1.08	.85	T.	.78		T.		.95	1.15	.28	.26						.30					.40	T.	T.		7.57
Owensville ‖	Gasconade		.12						.90	.18					.83	.41			.45		.22												3.11
Rolla	Meramec		.40	.12				.83	.22				.98	1.11			.08	.73	T.	T.													4.47
Seligman	Neosho	.59	.31	1.81	.02	.13		.08	.02		1.94				.19		.12	1.03	.02					.82					.70	.03			7.81
Seymour (near)	White		.67	1.20	.04		T.	.70	2.13	.07				T.	2.05	.66	.45	1.00										T.					8.97
Springfield***	do		.95	.73	T.			1.12	1.99		T.			.75	.76	.42	.90	.91	T					T	T.			.01	T.	.14	T.		8.68
Steelville‖	Meramec			.25	.18				1.10					.39	1.20			.05	.23	.15													3.55
Stover ‖	Missouri			24					.45	.06					.64			.70		.23	.02			.32									2.66
Tuscumbia ‖	Osage			.22	.01				.80	.02					.69	.03		.26	.29	.13				.08									2.53
Willow Sprgs.‖ (near)	White			.97	.50				1.70	.18				.22	2.40	.62	.13	.55	.14						.22				.02				7.65
Southwest Plain.																																	
Amoret	Osage	.20	.37					.10	.58				.47	2.48	.54	.47	1.18			.21				.84									7.44
Appleton City	do		.05	.17				.02	2.60				.15	.62			1.37							.41				.01					5.40
Centerview	Missouri		.38	.01				T.	.80					.55	.14	.22	T.	.15						.65				T.					2.90
Clinton	Osage		.20	.10				.08	.50				.02	.12	.80		.72	1.03						.45				T.					4.02
Concordia‖	Missouri			.46					.08	.83				1.92			.45							.50	.06								4.30
Harrisonville‖	Osage	.01	.01	.12				.99	.34	.44			.20	.96	.83		.48	.28		.01				1.39		.02			.07				6.15
Joplin*	Neosho		T.	1.38	.01			1.59	2.04		.50			.09	.71	1.40	.28	.12						.24	T.			.08	.02				8.46
Lamar ‖	do		T	.35	.22			.10	2.60	T.			.70		5.00		3.60	.70						.60					T.				13.87
Lamonte	Missouri		.32					.10	1.65					.52	.25		.34	.08	.01					.50									3.77
Marshall	do		.33	.04				.03	.58				.25	.32										1.25									2.80
Nevada	Osage		.08	.45				.70	4.00						5.26		2.06			.32				.64									13.51
Osceola‖	do			1.22	.34				4.32					.10	.65		.98							.87					.10				8.58
Warsaw	do			.43				.06	1.60						1.50		.07	T.	T.					.90	T.								4.56
Waverly ‖	Missouri	T.		.32				T.	.12	T.	T.		.55	1.96	.70		.40	.40						.36									4.81
Northwest Plateau.																																	
Albany‖	Grand		.47										.35	1.00				1.21	.15	.16				.70									4.04
Bethany	do		* *			* *		1.10	T.			T.	.20	.75			.05	.50	.15	T.				.90	T.								3.65
Chillicothe ‖	do		.40	1.10					.04	.06			.26	.43			.06	.96	.02	T.				.56									3.89
Conception	Missouri		.43					.19	.04			T.	1.05	1.80			.88	T.	.22	T.				1.42				T.					6.03
Edgerton	do		.58	.01				.86	T.			.02	.54	.33			.10		.03					.78				T.					3.25
Gallatin ‖	Grand		.95	.79					.15	.16			.24	.48			T.	.22	.03					.70									3.72
Grant City	do		.30			.63		.05				.08	.29	.49			.25	.57	.34	.02				1.06									4.08
Kansas City***	Missouri		.91	T.			.28	.12	.01		.01	.35	.15	.77	.61		.97		.17					.73	.02			.01					5.11
Kidder ‖	Grand		.31	1.06					.18	.60			1.93	.48	T.		.01	.62	.08	T				1.08									6.35
King City	Missouri		1.69					.16					1.05				.13	49	.09				.05					.08					3.74
Lexington ‖	do	.03		.53				.05	.12	.15	.02	.02	.69	1.85	.12		.40	.28						.35									4.61
Liberty	do		.53					.20					.42	.64	.12		1.36		.02					.42	.13				T.				3.84
Maryville ‖	do		.05	.22					.17			.18	1.28	1.08			.29	.06	.06	.40			T.	.57				T.					4.36
Oregon	do		1.28				.05	.17	.47			.14	.74	.94			.82	T.	.32					.96				T.					5.89
St. Joseph***	do	T.	1.40				.04	.26	.30		.10	.46	T.	.63			.06	.10	.23			T.	.83	.05	T.			T.					4.46
Tarkio	do		.30		.49			.19				.11	.81	.61			.70	.02	.11					.41									3.75
Trenton	Grand	T	1.15			.31		.30	.02			.16		.71			.08	.25	.04					1.59	T.								4.61

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S. Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for August, 1927

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	83	64	78	83	92	95	80	85	80	87	91	92	87	86	81	82	81	75	78	80	84	88	77	78	81	80	77	82	87	91	92	83.1
	Minimum	62	61	56	57	58	64	69	68	55	56	62	65	66	67	64	64	65	61	56	53	53	62	62	54	55	55	55	57	63	60	60	60.2
Columbia	Minimum	82	68	71	78	87	91	83	75	76	82	86	88	83	83	81	78	78	73	73	75	79	85	72	72	76	77	75	80	81	85	86	79.3
	Maximum	62	56	56	56	64	72	69	63	57	62	66	70	67	70	64	62	63	62	56	53	57	60	59	53	53	54	53	61	61	59	62	60.7
Fayette	Maximum	84	75	77	81	91	94	81	79	79	86	91	92	85	88	84	79	86	77	78	79	82	88	77	76	81	80	78	83	87	90	90	83.2
	Minimum	60	59	54	54	58	63	65	68	54	56	62	64	65	65	62	63	61	59	53	50	51	50	58	49	50	49	49	54	57	54	58	57.2
Hannibal	Maximum	79	67	74	81	89	92	86	82	76	82	87	89	78	83	83	70	72	73	73	76	80	84	72	74	77	78	76	82	85	87	87	79.8
	Minimum	65	55	54	56	65	70	72	64	57	58	63	71	68	70	64	65	62	62	57	52	59	63	56	53	58	54	53	55	61	63	60	60.8
Jefferson City §§	Maximum	87	70	69	83	88	93	80	80	78	84	90	89	87	85	83	80	77	74	74	77	82	85	72	73	78	85	85	84	89	87	88	81.8
	Minimum	65	63	56	55	61	68	73	68	59	60	65	69	69	68	66	67	65	61	57	54	54	58	63	54	53	55	55	50	51	60	62	60.8
Kirksville	Maximum	81	74	74	83	84	94	87	86	78	84	92	92	87	84	86	77	82	73	78	80	82	86	75	78	78	80	76	82	87	88	87	82.4
	Minimum	61	55	53	54	63	62	68	63	50	54	62	67	68	68	57	61	60	60	54	51	55	60	59	50	54	50	53	54	58	63	60	58.3
Louisiana	Maximum	83	83	78	80	90	90	92	80	80	85	86	90	87	83	84	80	72	75	76	76	80	84	80	76	80	80	79	83	87	88	88	82.4
	Minimum	64	55	55	54	60	66	70	68	56	55	60	65	66	68	56	62	64	57	56	48	50	57	64	64	52	48	45	48	55	55	54	58.0
Macon§§	Maximum	86	66	77	82	91	92	82	84	80	85	89	90	86	86	85	71	80	76	77	80	82	87	77	76	83	87	82	84	87	91	90	82.9
	Minimum	61	58	53	55	61	66	67	65	52	55	62	66	65	65	59	62	62	60	52	52	55	60	60	53	55	51	57	53	52	61	60	58.5
Mexico§§	Maximum	83	66	75	83	91	93	84	77	76	85	89	92	84	83	83	77	77	73	76	79	83	87	72	75	81	80	79	83	86	90	90	81.7
	Minimum	65	61	55	57	63	69	70	72	57	59	65	69	70	70	63	65	67	61	57	54	57	61	63	53	55	53	54	55	60	62	61	61.4
St. Louis(1)	Maximum	88	70	72	81	89	91	86	78	79	82	89	86	80	81	83	77	71	75	73	75	79	85	77	72	77	76	79	82	85	87	87	80.4
	Minimum	69	56	53	61	67	72	69	69	61	63	70	72	68	70	65	65	66	63	62	59	61	63	60	56	59	62	59	64	65	66	67	63.9
Unionville	Maximum	84	76	75	86	91	95	90	87	82	86	92	90	88	86	86	80	80	73	73	80	84	90	80	78	80	80	76	80	90	90	90	83.8
	Minimum	60	55	50	53	58	63	67	64	45	55	62	64	67	66	57	62	60	58	52	50	52	60	60	47	52	48	50	55	55	62	60	57.1
Warrenton	Maximum	84	80	71	81	91	90	89	80	76	83	88	88	86	82	83	78	73	75	73	75	80	85	78	73	77	79	79	84	87	87	90	81.5
	Minimum	64	60	52	56	64	69	73	68	57	61	64	66	66	67	62	64	65	59	58	54	54	58	64	49	55	55	54	56	60	62	61	60.5
Southeast Lowlands.																																	
Campbell	Maximum	90	82	76	80	87	91	88	90	85	81	90	90	90	86	88	86	85	85	79	79	81	84	86	80	80	79	82	85	82	87	92	84.7
	Minimum	67	66	59	63	62	66	72	67	69	65	66	65	67	68	69	67	68	59	59	53	51	53	56	54	51	53	52	54	57	62	60	61.3
Caruthersville	Maximum	89	89	73	78	88	92	82	92	88	87	89	94	94	92	90	88	83	83	79	79	80	85	87	78	81	81	82	85	83	87	91	85.5
	Minimum	71	71	62	67	66	71	66	73	72	71	71	73	74	71	73	71	70	64	63	58	55	58	62	59	59	61	59	62	63	67	67	66.1
Doniphan	Maximum	91	85	75	83	88	92	85	90	89	86	90	92	91	86	87	85	83	80	79	78	81	84	83	75	77	77	78	82	77	84	88	83.9
	Minimum	67	67	59	63	63	67	67	68	70	65	67	66	70	67	70	68	66	60	60	54	51	54	58	55	50	50	48	54	59	63	58	61.4
Jackson	Maximum	89	84	77	78	87	88	87	84	82	84	87	90	92	85	86	83	81	77	75	75	79	83	85	74	77	78	81	84	85	88	90	83.1
	Minimum	65	62	55	60	59	64	72	63	66	60	65	63	68	66	66	60	69	60	57	51	48	50	55	50	46	58	46	51	52	55	57	58.4
Poplar Bluff	Maximum	96	84	76	83	89	93	84	90	88	88	94	90	90	89	90	96	86	82	82	81	84	86	84	81	85	84	83	86	82	91	93	86.8
	Minimum	66	63	58	61	60	66	72	66	68	64	66	65	67	66	68	66	59	58	52	53	50	53	56	52	48	50	49	55	57	60	59	59.8
Sikeston	Maximum	95	89	75	83	90	91	85	89	87	89	90	91	92	89	88	86	83	82	77	72	81	85	86	75	79	79	82	87	87	88	90	85.2
	Minimum	69	65	59	62	63	66	72	69	71	65	65	65	70	68	69	65	71	62	60	55	54	53	57	53	51	53	52	57	57	61	62	62.0
Cairo, Ill.	Maximum	89	81	71	78	86	87	82	84	82	84	86	88	89	84	85	83	80	78	74	72	78	82	83	72	76	76	78	82	84	84	88	81.5
	Minimum	73	68	61	64	67	73	74	72	70	68	69	69	71	70	71	68	71	66	61	60	61	62	66	57	58	59	59	62	62	63	70	66.0
Ozark Plateau.																																	
Arcadia§§	Maximum	86	73	63	77	84	86	78	84	76	80	86	86	86	84	81	77	77	74	73	72	77	80	79	70	75	74	74	79	81	85	86	78.8
	Minimum	62	60	55	56	56	61	69	67	65	58	61	63	68	67	65	63	64	58	55	49	46	52	57	51	44	46	42	47	51	52	55	56.9
Aurora	Maximum	85	81	77	81	82	86	86	85	74	78	83	87	89	85	81	85	81	75	75	75	77	84	76	72	75	74	70	73	77	81	82	79.7
	Minimum	67	68	60	63	64	68	64	65	64	67	64	67	73	65	68	65	65	62	59	55	53	56	64	55	54	54	55	59	62	65	59	62.2
Birchtree	Maximum	88	81	70	80	81	89	81	87	85	83	87	87	90	89	85	88	79	81	75	75	80	87	83	81	72	75	75	76	78	76	84	81.5
	Minimum	66	64	59	62	63	69	68	65	59	59	64	64	64	65	70	64	63	59	57	54	51	54	52	60	52	49	51	51	54	64	61	59.9
Eldon §§	Maximum	89	70	..	..	..	92	81	81	77	84	90	90	91	87	83	85	80	78	77	79	80	86	75	74	79	79	72	81	84	87	90	^{c}82.2
	Minimum	62	62	..	..	..	57	54	67	58	59	63	68	69	68	68	64	65	60	55	53	55	56	59	50	51	52	50	51	60	58	58	^{c}59.0
Farmington	Maximum	88	75	67	78	90	94	87	86	79	85	88	92	88	87	82	82	76	75	72	70	80	84	74	72	76	76	77	86	86	90	92	81.7
	Minimum	65	61	61	57	60	58	61	61	62	58	63	66	69	66	64	60	66	59	55	52	46	54	59	50	45	50	48	52	54	55	58	57.9
Koshkonong	Maximum	88	80	73	83	85	90	83	88	81	85	89	89	92	84	85	81	80	83	75	78	80	84	81	75	78	79	79	81	76	85	88	82.5
	Minimum	70	66	63	64	67	70	67	67	69	67	68	69	71	66	71	68	67	61	59	57	56	60	68	54	51	55	54	60	62	66	64	63.8
Lebanon§§	Maximum	86	82	70	82	90	92	88	83	76	85	88	86	91	87	86	86	87	73	73	76	80	85	77	74	76	78	73	80	79	82	87	81.9
	Minimum	59	62	55	55	59	60	69	64	59	60	62	63	61	61	66	66	65	57	53	52	52	52	56	49	48	48	48	48	57	57	55	57.4
Mountain Grove	Maximum	88	77	66	82	81	90	85	86	76	80	89	87	87	89	84	84	80	80	76	79	80	86	82	76	76	75	73	74	72	81	84	80.8
	Minimum	66	62	60	62	59	69	69	63	63	64	60	63	68	64	68	64	64	57	54	52	54	55	62	49	49	53	51	58	60	61	56	60.0
Neosho	Maximum	86	86	81	82	85	88	90	90	75	74	86	88	88	90	90	89	89	80	74	80	81	85	85	75	83	84	75	74	77	82	84	83.1
	Minimum	65	65	61	63	60	62	65	65	65	66	62	65	67	65	68	67	67	60	59	50	50	54	65	55	51	54	50	51	61	64	55	60.5
Rolla	Maximum	88	75	70	83	90	93	90	82	85	83	88	87	88	87	85	79	78	74	75	77	81	85	78	74	78	79	76	82	82	86	89	82.2
	Minimum	66	62	55	59	60	68	70	65	60	61	64	66	69	65	66	65	65	58	55	53	52	56	64	51	51	53	51	57	57	58	61	60.1
Springfield	Maximum	84	76	69	78	83	86	82	82	73	78	83	87	89	84	80	82	78	72	72	74	77	82	76	71	74	75	71	76	74	81	82	78.4
	Minimum	70	66	59	63	64	70	66	64	62	67	65	67	67	66	67	66	65	61	58	57	58	58	62	55	53	56	56	62	63	63	65	62.6
Southwest Plain.																																	
Amoret	Maximum	82	78	74	83	88	91	88	84	82	84	89	87	89	85	84	84	80	83	77	80	85	84	83	80	84	81	82	86	85	82	84	83.5
	Minimum	62	56	61	55	60	67	67	68	57	57	60	64	66	67	69	67	62	60	54	50	52	58	60	62	68	67	61	66	60	61	66	61.6
Appleton City	Maximum	86	77	66	74	87	92	87	83	77	85	87	87	88	84	83	85	82	82	76	83	83	86	73	73	77	78	78	76	82	83	87	81.5
	Minimum	65	61	57	57	62	70	69	67	58	64	65	65	68	67	70	67	67	60	56	54	56	63	66	56	54	56	58	61	64	61	61	62.1
Centerview	Maximum	81	74	69	82	88	84	77	76	71	83	87	89	83	82	83	76	77	..	72	79	81	85	78	75	78	80	78	81	82	89	91	^{a}80.4
	Minimum	62	58	56	61	65	67	70	69	55	60	63	62	66	68	61	55	60	55	55	53	51	58	64	55	53	58	60	62	64	60	59	60.2
Clinton	Maximum	90	82	69	83	89	91	88	86	80	88	90	89	92	86	82	86	80	81	78	80	83	88	81	77	80	80	75	85	86	88	89	83.9
	Minimum	72	65	54	60	71	75	74	70	66	71	70	72	74	76	68	73	70	68	62	60	63	66	70	64	60	64	62	70	69	68	68	67.6
Harrisonville§§	Maximum	85	70	68	82	87	92	81	83	76	85	86	85	84	85	78	84	83	74	78	79	80	86	76	73	75	76	72	76	82	87	88	80.5
	Minimum	62	61	55	56	63	66	64	68	54	57	61	62	65	66	68	67	64	60	52	50	52	58	61	55	54	56	57	53	63	60	62	59.7
Lamar§§	Maximum	88	85	69	79	87	90	89	85	77	85	88	87	90	86	82	86	81	75	75	77	82	86	76	75	79	79	69	77	80	84	86	81.7
	Minimum	67	67	59	59	62	64	69	67	62	62	66	65	67	67	69	67	68	63	58	55	55	59	61	58	55	55	58	60	62	63	60	62.2
Lamonte	Maximum	89	70	77	84	93	95	87	83	82	90	92	92	94	90	86	87	83	75	77	82	86	90	79	79	81	83	78	86	89	92	94	85.3
	Minimum	62	56	55	59	61	69	69	67	55	62	61	61	65	65	67	69	66	60	53	51	53	58	63	51	59	55	53	61	61	58	59	60.1
Marshall	Maximum	92	82	76	86	93	95	89	84	81	89	92	92	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	90	92	....
	Minimum	63	58	53	56	68	69	69	70	47	58	64	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	59	70	....
Nevada	Maximum	85	81	68	80	86	89	87	82	76	85	84	85	90	83	79	84	79	78	74	76	80	80	80	75	79	87	71	73	80	81	85	80.7
	Minimum	65	65	57	60	61	69	67	66	69	63	67	64	67	66	70	63	68	61	57	55	57	59	64	57	53	55	57	58	63	61	60	62.1
Warsaw	Maximum	89	81	72	82	90	90	93	82	81	86	87	90	89	90	82	84	86	76	77	78	82	87	75	76	79	79	82	81	84	88	89	83.5
	Minimum	59	63	57	56	55	69	69	67	58	60	62	65	67	64	68	70	68	61	56	53	53	58	63	55	51	53	52	58	56	59	58	60.1
Northwest Plateau.																																	
Chillicothe §§	Maximum	79	58	79	84	91	92	82	87	79	86	91	89	88	86	83	80	84	74	78	80	83	88	78	77	81	82	79	82	88	92	92	83.0
	Minimum	62	55	54	54	60	69	67	63	50	55	61	63	69	70	63	65	63	59	53	48	50	61	60	50	50	50	53	60	58	67	59	58.7
Grant City	Maximum	76	68	73	81	84	93	83	76	72	81	88	82	81	81	79	78	79	69	71	75	81	85	73	71	74	76	72	80	87	90	90	79.0
	Minimum	59	58	51	57	59	66	68	65	53	57	60	62	66	68	64	66	61	60	53	52	53	54	59	51	54	54	58	60	57	61	64	59.0
Kansas City	Maximum	80	67	67	81	86	91	77	84	74	83	87	85	83	81	79	82	82	73	76	76	81	86	73	73	76	77	68	78	80	84	86	79.2
	Minimum	66	57	55	64	69	72	71	62	55	65	66	65	67	69	69	70	66	61	57	58	63	65	61	59	59	61	62	62	66	65	65	63.6
Kidder§§	Maximum	76	58	71	81	87	89	77	85	74	83	86	84	84	82	78	81	80	70	75	75	80	84	73	73	76	77	71	79	83	86	87	78.9
	Minimum	60	53	52	53	57	67	65	62	49	49	58	61	61	66	63	64	62	58	50	50	51	58	58	50	53	52	55	59	57	60	59	57.2
Lexington§§	Maximum	85	79	73	83	90	94	91	85	80	87	91	91	87	87	82	84	84	79	78	80	83	88	79	76	81	81	77	84	87	89	92	84.1
	Minimum	62	63	56	60	66	72	68	69	54	62	64	65	67	70	67	68	67	61	56	53	56	63	63	55	55	57	57	62	65	62	65	62.3
Maryville	Maximum	77	67	75	85	89	95	81	84	77	85	89	88	85	84	81	79	81	74	77	79	83	85	79	73	78	77	72	80	85	89	88	81.3
	Minimum	62	55	51	54	60	68	68	61	48	59	58	61	66	68	66	67	60	60	53	50	57	62	59	52	55	56	62	60	59	60	62	59.3
Oregon	Maximum	82	70	76	85	90	92	87	85	81	86	90	92	88	88	86	83	83	77	79	81	84	89	80	78	82	82	76	88	88	89	91	84.1
	Minimum	63	55	53	56	65	68	69	66	50	61	60	63	66	69	67	70	61	59	54	51	59	63	60	55	56	56	60	62	62	62	64	60.8
St. Joseph	Maximum	79	66	70	83	89	90	77	83	76	84	88	86	87	85	82	83	80	73	75	77	83	88	76	74	78	78	71	82	85	86	88	80.7
	Minimum	66	56	54	58	67	71	69	61	53	61	61	65	68	71	69	70	64	59	56	54	59	65	61	55	55	60	62	62	65	61	64	62.0
Trenton	Maximum	80	74	73	81	85	88	82	80	75	83	85	84	81	85	82	78	80	77	77	75	80	86	82	74	79	81	77	81	85	86	87	80.7
	Minimum	63	58	56	58	60	62	69	66	52	59	65	64	65	70	66	65	64	61	56	54	56	64	60	53	66	55	59	61	60	65	62	61.1

^{a}, ^{b}, ^{c}, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXXI. COLUMBIA, MO., SEPTEMBER, 1927. No. 9.

GENERAL SUMMARY.

September, 1927, in Missouri, was a month of quite varied and unusual weather, which ranged from one extreme to another. Excessive heat prevailed over the whole State the first seventeen days which abruptly terminated into a real cold snap that resulted in temperatures approximating the light freezing and frost values generally on the 21st, and 22d. The damage, fortunately, was confined to the most tender vegetation and in only a few scattered localities. As a climax following the change from heat to cold the month closed with general storms of marked intensity over nearly all the State, resulting in heavy to excessive rains which in turn caused the smaller rivers and many creeks to flood adjacent bottoms and lowlands, doing considerable damage to crops. As a part of the general storm strong winds occurred at many points, and a few tornadoes developed in the southern, southeastern, and northern parts of the State, and one of these, the most disastrous in three decades or more centered its fury on the city of St. Louis during the afternoon of the 29th, leaving death, injury, and vast destruction in its wake. (For details see special article.)

September was the first month since April to furnish more than normal warmth. It was not only decidedly warmer than a normal September but slightly warmer than August, whereas that month usually is 5 degrees warmer than September. The period from about the 8th to the 17th, inclusive, was about the warmest of any corresponding period since 1888. In the three preceding summer months, June, July, and August, there were only nineteen days with temperatures of 90 degrees or higher, 11 of these being in July. In September there were thirteen days when the temperature reached 90 degrees or higher.

While the weather of September, following the very pleasant summer, caused much complaint from the side of personal comfort, especially the persistent heat of the first twenty days, the discomfort was offset by the marked advantages of the sun's warmth in hastening the maturity of crops particularly corn. September undertook to remedy, to a large extent, the harm that the preceding months had done to the State's principal crops. Never was a hot dry spell more timely.

TEMPERATURE.

The monthly mean temperature for the State, as based upon the records of 65 stations, was 71.6°, or 2.6° above the normal, and slightly warmer than the preceding month of August. The temperature excess was quite uniformly distributed over all parts of the State. Excessive heat prevailed the first seventeen days, with the afternoon values reaching and exceeding 100° on several days, particularly on the 15th, 16th, and 17th. This degree of heat is not unusual for the first half of September. Last year the month's maximum was 97°, but in 1925 was 110° the highest in 40 years. About half the Septembers in the past 40 years have experienced temperatures of 100° or higher in some part of the State. A marked change to cooler occurred on the 21st, and 22d, when there were sharp falls in temperature of 40 to 48 degrees and to minima approximating the light freeze and frost values generally over the State. Afternoon temperatures were 90° or higher on 13 days, and 100° or higher (102° being the highest) at eight stations on six days.

PRECIPITATION.

The average precipitation for the State, 103 stations reporting, was 3.71 inches. This amount agrees closely with the 56 years' average, but the distribution was not even, being nearly three times the normal in the southeastern section, while all other sections received less than the normal. While the rains were general and generous from the 3d to the 8th, there was not much rain afterward until the last six days of the month when it fell daily, and was persistent, general and heavy, and locally damaging, particularly in the southeast and parts of the southwest section. Amounts falling within twenty-four consecutive hours or less ranged from 2.58 inches to 6.37 inches, the latter amount falling at Dexter, Stoddard County, on the 30th. The greatest monthly total was 9.82 inches, at Sikeston, Scott County, and the next heaviest, 7.81 inches, fell at Centerview, Johnson County.

MISCELLANEOUS PHENOMENA.

Fogs, dense.—26th.

Frosts, light.—19th, 20th, 22d, and 27th. Heavy.—20th, and 21st. Killing, confined to a few low places.—21st, and 22d.

(Continued on Page 40.)

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Max. velocity. Direction.	Max. velocity. Date.
Columbia	29.98	86	70	253	68	4,053	5.6	25	nw.	20
Hannibal	29.97	83	..	...	..	4,937	6.9	29	s.	29
Kansas City	29.96	79	59	283	76	6,236	8.7	40	n.	18
St. Joseph	29.94	82	60	255	68	4,889	6.8	33	sw.	29
St. Louis	29.98	72	55	244	65	6,467	9.0	70	s.	29
Springfield	29.96	81	60	269	72	5,738	8.0	29	s.	29
Cairo, Ill	30.00	83	65	...	..	4,136	5.7	34	s.	29
Keokuk, Iowa	29.98	81	61	242	65	3,764	5.2	26	s.	29

COMPARATIVE DATA FOR SEPTEMBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	65.2	−3.7	97	28	1.11	−2.56	.....	0	4	....	....	....
1889	64.7	−4.2	94	31	4.66	+0.99	.....	0	11	....	....	....
1890	63.7	−5.2	98	34	3.98	+0.31	.....	0	9	....	....	....
1891	70.6	+1.7	104	30	0.63	−3.04	.....	0	6	....	....	....
1892	67.8	−1.1	97	32	2.39	−1.26	3.00	0	4	19	6	5
1893	69.9	+1.0	107	26	3.92	+0.25	5.20	0	6	17	7	6
1894	68.5	−0.4	101	34	4.93	+1.26	3.07	0	5	13	11	6
1895	71.8	+2.9	104	25	2.45	−1.22	6.21	0	4	19	8	3
1896	65.0	−3.9	101	28	4.17	+0.50	4.40	0	10	11	10	9
1897	74.3	+5.4	105	27	0.74	−2.93	2.13	0	2	23	5	2
1898	70.9	+2.0	103	30	6.74	+3.07	6.10	0	9	15	9	6
1899	67.4	−1.5	108	16	2.04	−1.63	3.01	0	4	20	6	4
1900	71.1	+2.2	100	29	4.81	+1.14	3.79	0	10	13	10	7
1901	68.9	0.0	103	27	2.31	−1.36	2.80	0	6	18	8	4
1902	63.2	−5.7	95	30	4.78	+1.11	6.55	0	10	15	6	9
1903	66.4	−2.5	98	32	4.41	+0.74	6.77	0	8	17	6	7
1904	69.6	+0.7	96	34	3.85	+0.18	2.46	0	3	16	8	6
1905	69.6	+0.7	98	41	7.67	+4.00	7.90	0	10	15	6	9
1906	71.9	+3.0	98	36	4.15	+0.48	4.28	0	11	15	8	7
1907	68.9	0.0	101	31	1.93	−1.74	2.25	0	6	18	7	5
1908	71.6	+2.7	99	28	1.80	−1.87	2.68	0	4	18	8	4
1909	68.7	−0.2	105	28	4.62	+0.95	4.48	0	8	18	6	6
1910	69,5	+0.6	97	34	5.53	+1.91	4.63	0	10	14	6	10
1911	73.7	+4.6	105	39	7.13	+3.46	7.75	0	11	13	7	10
1912	68.6	−0.3	105	27	3.06	−0.61	3.61	0	9	17	5	8
1913	69.4	+0.5	109	27	4.63	+0.79	4.08	0	9	13	7	10
1914	69.6	+0.5	99	35	6 27	+2.52	9.22	0	9	15	8	7
1915	70.6	+1.5	98	34	5.25	+1.51	5.91	0	7	16	7	7
1916	67.8	−1.5	101	27	2.94	+0.86	2.80	0	6	19	7	4
1917	67.9	−1.2	101	33	2.78	−1.09	4.13	0	5	19	6	5
1918	62.3	−6.7	96	29	4.73	+0.77	6.61	0	7	17	6	7
1919	71.4	+2.7	104	38	3.29	−0 54	4.93	0	5	20	6	4
1920	70.0	+1.4	100	31	4.81	+0.92	4.10	0	9	17	7	6
1921	73.4	+4.7	104	34	7.03	+3.15	5.45	0	13	13	9	8
1922	71.7	+2.6	107	34	3.31	−0.57	5.36	0	5	21	5	4
1923	68.7	−0.3	98	33	4.59	+0.86	5.26	0	11	12	9	9
1924	61.0	−5.0	96	29	3.77	+0.04	3.72	0	8	14	8	8
1925	74.6	+5.6	110	45	6.46	+2.73	8.92	0	10	14	6	10
1926	69.3	+0.3	97	27	8.79	+5.06	5.83	0	13	12	7	11
1927	71.6	+2.6	102	29	3.71	−0.02	6.37	0	8	17	7	6

Climatological Data for September, 1927

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	47	71.2	+ 4.5	100	17	40	23	38	3.51	−0.88	0.68	0	12	20	0	10	se.	O. K. Benecke
Clifton Hill	Randolph	731	27	70.5	+ 1.6	98	15†	35	21	36	1.68	−3.18	0.48	0	8	14	9	7	......	Dr. A. J. Bradsher
Columbia	Boone	748	36	70.9	+ 2.7	96	17	36	21	33	2.38	−0.47	0.64	0	12	14	8	8	s.	U. S. Weather Bureau
Downing	Schuyler	876	5	71.1	......	101	17	40	21	35	2.80	−1.91	0.81	0	8	16	10	4	sw.	James Taylor
Fayette	Howard	661	46	70.0	+ 1.7	99	15†	31	22	48	4.48	−0.35	2.50	0	9	..	..	..	......	J. D. Settle
Fulton	Callaway	818	38	71.3	+ 2.4	97	14†	35	22	34	1.72	−2.67	0.50	0	10	17	8	5	......	Chamber of Commerce
Gorin	Scotland	700	39	....	......	..	..	..	..	..	3.16	−1.13	0.71	0	11	13	5	12	sw.	J. W. Pulliam
Hannibal	Marion	534	34	71.6	+ 3.9	96	17	40	22	32	2.82	−0.74	0.72	0	13	15	7	8	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	72.0	+ 2.9	99	17	38	21	39	4.38	+1.10	2.05	0	9	20	2	8	s	Miss Emma Swift
Kirksville	Adair	969	37	70.1	+ 4.1	97	17	37	21	42	3.34	−0.97	1.50	0	11	21	3	6	sw.	Prof. J. S. Stokes
Louisiana	Pike	469	32	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	J. T. Farrell
Macon	Macon	875	27	70.1	+ 1.8	98	12†	36	21	37	2.52	−1.69	0.65	0	11	15	5	10	se.	W. C. Brown
Mexico	Audrain	800	37	73.4	+ 4.8	101	16	39	21	37	1.86	−2.82	0.88	0	10	21	0	9	w.	Mrs. Abbie Snoddy
Monroe City	Monroe	748	6	....	......	..	..	..	..	..	2.61	.....	0.68	0	12	16	7	7	ne.	J. S. Conway
St. Charles	St. Charles	456	38	74.5	+ 6.6	101	13	37	21	36	4.04	+0.76	2.58	0	3	15	9	6	s.	L. C. Saeger
St. Louis (1)	St. Louis City	568	52	75.3	+ 4.8	98	16	47	21	23	2.93	+0.02	1.24	0	7	13	11	6	s.	U. S. Weather Bureau
St. Louis (2)	....do	578	14	74.6	+ 4.4	96	15	44	21	22	3.72	−0.92	1.29	0	8	13	10	7	se.	St. Louis University
Shelbina	Shelby	779	33	....	......	..	..	..	..	..	3.08	−0.90	0.70	0	12	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	28	71.6	+ 2.5	99	11†	39	21	44	3.60	−0.59	1.25	0	11	15	10	5	s.	Frank Hall
Unionville	Putnam	1,062	33	70.2	+ 3.0	98	15†	36	21	37	3.20	−1.41	1 10	0	9	18	6	6	sw.	Geo. W. Davis
Warrenton	Warren	816	44	73.0	+ 4.2	98	12†	37	21	31	2.94	−1.10	1.27	0	6	17	6	7	sw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	614	54	71.0	+ 3.5	96	17	43	20	29	2.91	−1.06	0.78	0	12	9	12	9	s.	U. S Weather Bureau
Section means and	extremes	.....	..	71.8	+ 3.5	101	13†	31	22	48	3.03	−1.05	2.58	0	10	16	7	7	s.	
Southeast Lowlands.																				
Benton	Scott	340	1	....	......	..	..	..	..	..	6.76	......	2.15	0	9	..	..	..	......	E. R. Tirmenstein
Campbell	Dunklin	314	1	74.0	......	98	12†	35	21†	38	3.65	......	1.78	0	6	15	9	6	s.	Jeff. King
Caruthersville	Pemiscot	265	30	77.4	+ 4.0	99	14†	44	22	31	4.79	+1.69	2.88	0	5	16	3	11	nw.	John T. Markey
Doniphan	Ripley	344	22	72.8	+ 2.0	96	12†	35	21†	36	6.32	+2.68	3.00	0	4	14	12	4	sw.	W.W. Martin
Jackson	Cape Girardeau	428	35	72.6	+ 2.7	99	17	32	21	39	3.44	−0.11	1.58	0	5	9	2	19	s.	John G. Putz
Marble Hill	Bollinger	470	31	74.4	+ 4.0	99	16†	37	23	41	3.92	+0.29	1.40	0	6	15	12	3	n.	R.A. DeWitt
Morehouse	New Madrid	289	25	....	......	..	..	..	..	..	9.57	+6.71	5.51	0	7	18	10	2	sw.	John A. Spence
Parma	New Madrid	281	9	....	......	..	..	..	..	..	4.17	......	2.60	0	3	..	..	..	......	H. W. Kendall
Patton	Bollinger	605	17	....	......	..	..	..	..	..	5.00	+1.79	1.34	0	8	..	..	..	......	S. P. Presnell
Poplar Bluff	Butler	339	22	74.7	+ 3.4	101	16†	35	21†	45	6.93	+3.35	5.10	0	5	19	9	2	s	J. H. Wolpers
Sikeston	Scott	318	21	74.5	+ 3.9	99	15†	39	21	39	9.82	+6.96	5.82	0	6	17	7	6	sw.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	358	51	75.3	+ 3.8	96	14	46	21	23	7.33	+4.86	4.49	0	7	12	8	10	s.	U. S. Weather Bureau
Section means and	extremes	....	..	74.5	+ 3.4	101	16†	32	21	45	5.98	+3.14	5.82	0	6	15	8	7	s.	
Ozark Plateau.																				
Arcadia	Iron	926	45	69.8	+ 2.2	95	16†	31	21	43	3.54	−0.10	0.62	0	9	26	0	4	s	Arcadia College
Aurora	Lawrence	1,370	36	71.2	+ 0.5	93	12	36	21	31	2.47	−1.26	1 03	0	10	20	4	6	sw.	W T. Troughton
Birchtree (near) ††	Shannon	1,000	31	70.8	+ 1.3	94	12	34	22	41	4.71	+1.12	1.10	0	8	21	5	4	n.	V. H. Kirkendall
Bolivar	Polk	1,071	32	72.8^{g}	+ 3.2	96	12	38	21	29	2.68	−1.42	1.17	0	9	22	2	6	......	Southwest Baptist College
Dean ‡‡	McDonald	1,000	27	....	......	95	15†	..	..	..	4.45	+0.83	2.30	0	9	23	2	5	w.	H. E. Dean
Eldon	Miller	934	30	71.0	+ 1.7	96	11†	35	21	39	3.19	−0.61	1.76	0	8	10	16	4	sw.	E. H. Shepherd
Farmington	St. Francois	918	15	72.8	+ 3.5	101	17	31	21	42	1.75	−1.47	0.45	0	8	10	18	2	sw.	Robert Forsyth
Gano ‡‡	Dent	1,250	22	70.6	+ 1.1	94	15†	31	21	40	2.66	−1.60	0.72	0	6	18	7	5	sw.	A. C. Leach
Goodland	Iron	1,000	32	70.7	+ 3.4	99	17	29	21	46	2.02	−1.71	0.96	0	5	16	10	4	s.	F. M Adams
Greenville	Wayne	381	4	....	.....	..	..	..	..	..	....	......	....	..	..	..	..	..	......	Wm. P. Owens
Hailey	Barry	1,350	1	....	......	..	..	..	..	..	3.42	.....	0.85	0	5	20	0	10	w.	A. W. Madison
Koshkonong	Oregon	958	25	74.5	+ 3.6	98	13	42	21	30	4.83	+1 34	2.50	0	4	18	6	6	sw.	R. M. Hitt
Lebanon	Laclede	1,265	38	70.0	+ 0.5	97	16	32	21†	43	2.19	−1.90	0.74	0	4	20	3	7	se.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	20	68.3	− 3.0	90	15†	38	21	23	3.10	−0.90	1.02	0	8	19	1	10	sw.	C. S. Crow
Mountain Grove(near)	Wright	1,463	25	71.9	+ 3.5	95	16†	33	20	38	4.63	+0.59	1.35	0	6	17	8	5	sw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	69.6	− 0.7	91	10†	31	21	41	2.53	−1.69	0.72	0	9	20	7	3	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	26	73.0	+ 5.0	97	13	38	21†	38	4.16	+0.32	1.84	0	8	19	8	3	s	Prof. Elmo G. Harris
Seligman	Barry	1,542	24	71.6^{b}	+ 2.8	94	16	35	21	36	4.92	+0.80	1.61	0	8	19	5	6	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,642	20	69.4	+ 0.8	92	11†	30	21	36	3.04	−1.54	1.15	0	6	20	6	4	s.	Ira H. Hailey
Springfield	Greene	1,324	38	71.3	+ 2.4	91	12	42	21	25	2.20	−1.56	1.26	0	10	21	4	5	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	71.2	+ 1.9	101	17	29	21	46	3.21	−0.70	2.50	0	7	19	6	5	sw.	
Southwest Plain.																				
Amoret	Bates	831	19	70.6	+ 1.9	95	5†	34	21	36	2.39	−1.51	1.18	0	5	18	4	8	s.	Andrew Rood
Appleton City	St. Clair	853	32	71.4	+ 1.1	94	12†	38	21	30	2.97	−0.70	2.16	0	7	12	17	1	sw.	W. G Bigelow
Centerview	Johnson	872	39	72.0	+ 1.9	96	3†	38	21	35	7.81	+4.22	2.65	0	9	17	6	7	sw.	E. A. Markey
Clinton	Henry	765	33	....	......	98	17	..	..	..	2.97	−0.85	1.82	0	8	13	12	5	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	49	70.1	+ 1.8	96	17	36	21	40	1.57	−2.79	0.40	0	11	10	4	16	sw.	John H. Patterson
Lamar	Barton	980	39	71.5	+ 0.9	96	12	37	21	41	3.29	−0.95	1.75	0	6	15	9	6	sw.	Jesse A. Mann
Lamonte	Pettis	867	25	72.0	+ 1.9	100	17	35	21	41	4.29	−0.21	1.34	0	9	19	9	2	s.	J. E. Wheeler
Marshall	Saline	779	37	72.2^{a}	+ 3.9	102	17	37	20†	42	4.56	−0.32	1.53	0	11	11^{c}	12^{c}	4^{c}	sw	Dr W. H. Black
Nevada	Vernon	862	33	71.6	+ 2.5	94	17	37	21	41	2.50	−1.66	1,85	0	3	18	6	6	sw.	George A. Kaupp
Warsaw	Benton	687	26	72.4	+ 2.4	98	12†	31	22	48	3.83	−0.49	2.74	0	8	15	10	5	w.	Everett Martin
Section means and	extremes	.....	..	71.6	+ 2.1	102	17	31	22	48	3.62	−0.53	2.74	0	8	15	9	6	sw.	
Northwest Plateau.																				
Bethany	Harrison	916	34	70.3	+ 3.3	97	15†	34	21	40	3.26	−0.60	0.72	0	9	16	7	7	sw.	M. H. Moulton
Chillicothe	Livingston	779	17	70.0	+ 0.4	98	15†	35	21†	44	4.28	−1.46	1.80	0	10	15	7	8	sw.	Wm. J. Olenhouse
Conception	Nodaway	980	37	70.6	+ 3.4	98	15†	37	21	38	2.82	−1.03	0.80	0	8	15	8	7	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	6	69.6	......	95	17	31	21	43	3.82	......	1.65	0	10	19	6	5	s.	Fred L Stiff
Grant City	Worth	1,134	22	69.8	+ 2.8	96	15	37	21	37	4.78	+0.79	1.84	0	10	17	8	5	sw.	W. P. Spillman
Kansas City	Jackson	963	37	71.6	+ 2.7	94	15	44	27	24	4.21	+0.45	3.60	0	11	14	10	6	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	33	67.8	+ 0.1	96	17	35	21	36	2.72	−1.52	0.60	0	12	18	4	8	s.	Linn Terry
King City	Gentry	1,095	1	....	......	..	..	..	..	..	2.53	......	0.90	0	5	..	..	..	......	D. B. Oliver
Lexington	Lafayette	688	41	72.8	+ 4.3	98	17	41	21	35	3.77	−0.67	0.60	0	12	16	10	4	sw.	Miss Carrie Loomis
Liberty	Clay	859	36	71.8^{a}	+ 2.4	96	15	35	21	35	2.88	−1.56	1.42	0	10	18	3	9	s.	Pryor Carpenter
Maryville	Nodaway	1,169	36	70.0	+ 4.6	97	17	34	21	37	3.34	−0.87	1.03	0	11	21	4	5	s.	J. R. Brink
Oregon	Holt	1,048	70	71.5	+ 4.5	98	15	39	21	38	3.13	−0.61	0.75	0	9	21	3	6	sw.	Mina Wright
St. Joseph	Buchanan	967	18	71.2	+ 2.5	95	16	39	21	28	3.76	−1.37	1.21	0	14	16	8	6	sw.	U. S. Weather Bureau
Tarkio	Atchison	916	23	69.0	+ 2.4	95	17	35	21	33	3.91	+0.41	1.15	0	9	17	7	6	sw.	Albert Volker
Trenton	Grundy	822	30	70.4	+ 3.0	97	17	39	21	39	2.72	−1.54	0.96	0	11	17	7	6	s.	W. H. Estes
Section means and	extremes	.....	..	70.5	+ 2.8	98	15†	31	21	44	3.46	−0.74	3.60	0	10	17	7	6	sw.	
State means and	extremes	.....	..	71.6	+ 2.6	102	17	29	21	48	3.71	−0.02	6.37	0	8	17	7	6	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson: of Gano, Salem, R. F. D. No. 5. ‡ Indicates plus.

Daily Precipitation for September, 1927

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri								.33										.13		.02				.05	.34	.05	.03	.17		.87		1.99
Brunswick‖	Grand				.30			.12	.25										.15		.40				.15	.42	.45	.44	.05	.10	.68		3.51
Clifton Hill	Chariton							.28											.11		.15			.21	T.		.48	.14	.06		.25		1.68
Columbia***	Missouri					.11	.30	.03											.08		.02			.01		.43	.01	.33	.06	.64	.36		2.38
Downing	Mississippi						.49	.40											.45		.10						.38	.08	.09	.81	T.		2.80
Fayette‖	Missouri							.20											.13		.11			.16		.32		.13	.13	.80	2.50		4.48
Fulton	...do						.07	.13											.23		.02				.01	T.	.20	.09	.50	.21	.26		1.72
Gorin	Mississippi			.13			.71	.34										.45			.15			T.		.11	.13	.32	.09	.52	.21		3.16
Hannibal***	...do					.10	.05	.19											.13	.04	.15			.06		.12	.08	.45	.10	.72	.68		2.82
Hermann‖	Missouri							1.43												.02							.03	.45	.55	.45	.95		3.88
Jefferson City‖	...do						.75	.41											.05	.05						.05	.35	.20	.47		2.05		4.38
Kirksville	Mississippi			.10		.40		.10									.06		.37		.15					.06	.28	.15		1.50	.17		3.34
Louisiana	...do																																....
Macon ‖	Chariton						.40	.05	.25										.10		.20					.30	.03	.40	.12	.02	.65		2.52
Mexico ‖	Mississippi						.01	.02	T.										.06		.05				.18	.23	.05	.03	.35	T.	.88		1.86
Milan‖	Grand		.08				.12		.70				.10						.23			.12					.33	.30	.10	.10	.30		2.48
Monroe City	Mississippi					.13	.15	.19											.04	.17				.16		.13	.03	.06	.54	.68	.33		2.61
Pacific‖	Meramec						.17	.15													.05							T.	1.28	.08	2.18		3.91
St. Charles	Missouri						T.											T.	T.		T.						T.	.24	1.22	2.58			4.04
St Louis (1)***	Mississippi					T.	.23	.01	T.									.15	T.		.07			T.	T.	T.	T.	.70	.54	1.23			2.93
St. Louis (2)*	...do					.01	1.02	.07	T.									.16			.06				T.			.60	.51	1.29			3.72
Shelbina ‖	...do						.40	.32	.58										.22		.18				.03	.25	.06	.13	.19	.02	.70		3.08
Steffenville	...do			1.25		.30		.20											.10		.20			T.		.05	.20	.20	.25	.75	.10		3.60
Union‖	Meramec						.48	.42												.01	.05							.28	1.62	.04	1.75		4.65
Unionville ‖	Chariton			.50				1.10											.65							.10	.50	.10	.10	.05	.10		3.20
Warrenton	Mississippi					T.	.32	.16											T.		T.				T.		.04	.53	.62	1.27	T.		2.94
Keokuk, Ia.***	...do						.70	.19	T.									.08	.08	.05	.14			T.		.30	.49	.27	.09	.37	.15		2.91
Southeast Lowlands																																	
Benton	Mississippi		.89		.01	.18	1.35		.14																		.01		1.58	2.15	.45		6.76
Campbell‖	St. Francis			.01																.22								.17	1.12	.35	1.78		3.65
Cape Girardeau‖	Mississippi			.02		.45	.34			.92	.35																	.35	2.00	.45	1.01		5.89
Caruthersville ‖	...do				.36	T.													.39										1.11	.05	2.88		4.79
Dexter‖	St. Francis			.11																								.27	1.30	.32	6.37		8.37
Doniphan	Black																										T.	1.16	.20	3.00	1.96		6.32
Jackson	Mississippi						T.		.02																			.19	1.58	1.30	.35		3.44
Marble Hill	Mississippi								.40	.26																		.20	1.40	1.06	.60		3.92
Morehouse	...do			.68	.55	.03																						.03	1.84	.93	5.51		9.57
New Madrid‖	...do			.35		.25	.05													.08									.88	.83	3.40		5.84
Parma	St. Francis																											1.33		.24	2.60		4.17
Patton	Mississippi		T.	.06		T.	.39		.09	1.09								T.										.37	.87	.79	1.34		5.00
Poplar Bluff	Black					.23				T.																	T.	1.11	.45	5.10	.04		6.93
Sikeston‖	Mississippi			.96		.28	.60																						1.63	.53	5.82		9.82
Cairo, Ill.***	...do		.60		.02	.79			T.												T.							1.05	.37	4.29	.21		7.33
Ozark Plateau.																																	
Arcadia ‖	St. Francis			.26	.29	.20	T.			.62	.21									T.								.60	.59	.29	.48		3.54
Aurora	Neosho		.10																.09					.05	.50	.02	.08	1.03	.13	.19	.28		2.47
Birchtree (near)	Black																																....
Bolivar	Osage																		.14					.05	.01	.20	.15	.39	.21	1.17	.36		2.68
Caplinger Mills	Osage																		.02					.03	T.	.04	.51	.32	.13	1.55	.40		3.00
Dean	Neosho	.02	2.30																						.56	.01	.31	1.02	.08	.13	.02		4.45
Eldon‖	Missouri							.40											.02							.07	.27	.20	.44	.03	1.76		3.19
Farmington	St. Francis				.03	.24		.16											.02		T.							.32	.39	.45	.14		1.75
Fredericktown‖	...do					.30	.05		.03															.21				.70	.75	.48	.60		3.12
Galena‖	White																								.25			1.30	.55		.87		2.97
Gano	Meramec					.47	.04																					.72	.70	.67	.06		2.66
Goodland	Black				.33	.31																							.96	.37	.05		2.02
Greenville	St. Francis																																....
Hailey	White																								.42			.75	.80	.60	.85		3.42
Koshkonong	Black				T.	T.																					T.	.67	.27	2.50	1.39		4.83
Lebanon ‖	Osage						.52													T.					T.		T.	.74	.50		.43		2.19
Lockwood	...do																		.30					.03	.40		.58	.38	.21	1.02	.18		3.10
Mountain Grove	White		1.35			.06																						.61	1.29	.77	.55		4.63
Neosho	Neosho	T.	.27																.05					.05	.72		.27	.64	.12	.33	.08		2.53
Owensville ‖	Gasconade							.70												.10								.52	.82	.10	1.40		3.64
Rolla	Meramec				.03	.25													.09								.30	.95	.25	.45	1.84		4.16
Seligman	Neosho		.26																.02					T.	.60				1.49	1.61	.94		4.92
Seymour (near)	White		.13			.30													T.					T.		T.	T.	1.15	.66	.64	.16		3.04
Springfield***	...do		T.			.25													.05		T.			.01	.01	.02	.02	1.26	.21	.18	.19		2.20
Steelville‖	Meramec					.22		.60												.05							T.	.35	.90	.05	.31		2.48
Stover ‖	Missouri						.27												.05							.27		.09	.28	1.03	1.49		3.48
Tuscumbia ‖	Osage					.73	.06	.11											.07	.01	T.					.02	.10	.33	.44	.09	3.21		5.17
Willow Sprgs. ‖ (near)	White		.57	1.16		.04																						.30	1.26	.51	.73		4.57
Southwest Plain.																																	
Amoret	Osage					.62												.16						.32	.11					1.18			2.39
Appleton City	...do																		.06					.26	T.		.16	.02	.10	2.16	.21		2.97
Centerview	Missouri							.78											.08					T.	.05	.28	.10	.82	2.40	.65	2.65		7.81
Clinton	Osage			.08															.12		T.			.01		.25		.17	.10	1.82	.42		2.97
Concordia‖	Missouri								1.90												.25					.16	.19	.15		1.07	.33		4.05
Harrisonville‖	Osage						.22	.01											.11					.02	.14	.01	.40	.21	.05	.23	.17		1.57
Joplin*	Neosho	.15				.05							T.						.04					.17	.36	.12	.51	.38	.13	.30	.05		2.26
Lamar ‖	...do																								.25	.17	.32	.55	.25		1.75		3.29
Lamonte	Missouri				.30	1.10		.52										.05									.21	.05	.08	.64	1.34		4.29
Marshall	...do					.03		.81											.14		.12			.20		.37	.22	.09	.05	1.00	1.53		4.56
Nevada	Osage																							.56	.09					1.85			2.50
Osceola‖	...do																		.10							.35	.03	.21	.49	.50	1.25		2.93
Warsaw	...do					T.													.10	.10	.02					.20	T.	.24	.21	2.74	.22		3.83
Waverly ‖	Missouri						.10	.35	.90										.23		.11			T.	.20	.19	.37	.32	.03	T.	.97		3.77
Northwest Plateau.																																	
Albany‖	Grand						T.	.15									.50	.67	.88								.15	.85		.28			3.48
Bethany	...do			.60			T	.55									.35		.65		T.			T.	T.	.18	.72	.11	.04	.06	T.		3.26
Chillicothe ‖	...do.							.24	1.80										.29		.08				T.	.36	.61	.39	.04	.10	.37		4.28
Conception	Missouri				T.		.22	.23									.17		.80							.62	.54	.16	.08	T.	T.		2.82
Edgerton	...do						.44	.25									T.			.55				T.	.02	.08	1.65	.25	.22	.01	.35		3.82
Gallatin ‖	Grand							T.	.31										.33							.17	.60	.13	T.	.15			1.69
Grant City	...do			.42			T.	.34									1.84		.51							.65	.72	.17	.08	.02	.03		4.78
Kansas City***	Missouri			.02			.01	1.02											.19	.02	T			T.	.03	.25	.79	.07	T.	.14	1.67		4.21
Kidder ‖	Grand				.04		.08	.15	.35										.54		.08			T.		.32	.60	.45	.05	.03	.03		2.72
King City	Missouri						.12	.80											.66								.90			.05			2.53
Lexington ‖	...do					.58	.33	.49	.05										.17		.10					.29	.60	.31	.03	.50	.32		3.77
Liberty	...do						.01	.44											.18		.02				.03		1.42	.13	.04	.14	.47		2.88
Maryville ‖	...do			.18	.15	.05	.30	.14								T	.30		.54							.30	1.03	.24	.11		T.		3.34
Oregon	...do						.41	.53									.19		.35							.64	.75	.15	.10	.01	T.		3.13
St. Joseph***	...do				.04	.18	.22	.28									T.	.22	.37	.11			T.	T.	.32	.44	.74	.05	.01	.01	.77		3.76
Tarkio	...do						1.15	.21									.24		.96							.25	.67	.15	.18	.10			3.91
Trenton	Grand			.11			T.	.46											.36					.02	.01	.28	.96	.12	.08	.23	.09		2.72

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for September, 1927

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	90	91	92	91	94	86	84	94	94	95	98	98	97	97	99	97	100	72	77	62	67	79	65	70	77	64	52	66	78	65	..	83.0
	Minimum	63	65	67	65	66	67	67	69	71	68	66	68	69	63	69	70	70	62	46	46	42	41	40	52	56	61	47	47	48	49	..	59.3
Columbia	Minimum	86	89	90	88	90	85	81	91	90	91	92	95	94	94	94	91	96	80	73	61	63	74	68	77	77	73	54	64	73	72	..	81.6
	Maximum	62	68	67	67	68	68	71	70	71	68	66	71	72	71	69	71	72	53	45	42	36	41	53	52	55	52	48	49	59	50	..	60.2
Fayette	Maximum	88	92	94	92	94	91	83	95	95	97	98	98	97	97	99	98	99	79	77	69	68	79	65	73	76	69	61	68	77	70	..	84.6
	Minimum	58	61	62	63	63	62	64	66	66	64	62	63	64	63	61	65	67	62	42	43	33	31	36	46	54	57	46	46	46	47	..	55.5
Hannibal	Maximum	90	90	89	88	91	88	91	91	92	94	95	95	95	95	95	96	96	81	73	59	60	72	69	78	78	70	52	63	70	71	..	81 9
	Minimum	62	67	64	67	66	69	70	72	71	72	70	72	72	70	73	69	75	52	47	43	42	40	55	55	57	52	49	51	61	53	..	61.3
Jefferson City §§	Maximum	86	91	92	93	94	87	88	92	92	93	93	97	96	96	97	96	99	71	77	63	64	78	71	80	81	78	54	70	71	74	..	83.9
	Minimum	63	65	66	63	68	62	68	70	70	70	66	69	70	70	69	69	70	69	47	49	38	39	42	54	57	59	50	49	50	51	..	60.1
Kirksville	Maximum	86	90	82	84	90	86	78	92	93	95	96	95	95	94	96	93	97	94	74	68	61	75	71	73	78	70	54	62	73	71	..	82.3
	Minimum	62	64	66	60	61	65	68	70	71	69	70	69	69	68	69	69	73	52	43	40	37	41	42	52	53	45	44	46	50	49	..	57.9
Louisiana	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Macon§§	Maximum	87	91	85	92	92	87	79	93	95	96	97	98	98	97	98	96	97	73	75	64	62	76	67	75	76	66	54	69	74	67	..	82.5
	Minimum	60	64	66	56	57	65	68	68	69	67	68	69	67	68	68	68	69	60	42	41	36	39	45	51	55	59	45	45	46	49	..	57.7
Mexico§§	Maximum	90	93	93	90	95	90	80	95	96	97	98	100	100	98	99	101	100	76	77	65	68	79	73	82	79	73	54	66	70	70	..	84.9
	Minimum	63	67	68	67	66	68	71	72	72	72	73	72	70	71	71	71	72	63	48	48	39	42	45	55	59	61	53	52	54	55	..	62.0
St. Louis(1)	Maximum	88	89	91	89	92	90	88	85	92	94	92	97	97	97	98	98	94	80	75	63	62	71	72	79	79	81	69	69	75	78	..	84 1
	Minimum	69	70	71	70	71	69	73	74	75	76	76	71	77	76	79	79	78	59	54	50	47	48	52	61	64	62	61	55	62	62	..	66.5
Unionville	Maximum	91	92	87	88	92	84	84	94	95	94	96	95	95	96	98	95	98	90	72	70	63	75	78	70	77	64	50	60	75	70	..	82.9
	Minimum	62	62	66	56	60	64	65	70	70	68	66	68	68	66	70	67	70	55	45	38	36	38	60	54	54	44	42	45	50	48	..	57.6
Warrenton	Maximum	87	92	92	88	92	90	86	90	91	92	95	98	98	96	98	97	97	91	74	70	62	74	69	81	77	78	74	65	69	75	..	84.6
	Minimum	62	67	67	66	67	66	69	71	72	71	70	71	70	67	72	74	73	63	47	47	37	43	50	55	59	58	52	51	56	53	..	61 5
Southeast Lowlands.																																	
Campbell	Maximum	94	93	91	94	92	91	92	93	92	95	96	98	98	97	98	98	98	91	77	72	70	73	76	80	83	85	80	77	80	86	..	86.0
	Minimum	62	63	69	66	67	67	67	67	65	67	69	64	64	67	68	66	67	68	48	44	35	35	39	45	52	51	61	65	66	66	..	60.0
Caruthersville	Maximum	94	93	90	91	91	92	92	95	89	90	96	98	98	99	96	99	99	89	75	75	69	72	78	82	84	86	86	76	84	89	..	88.3
	Minimum	69	71	71	73	71	70	72	73	72	72	74	75	74	74	74	74	72	71	58	49	49	44	47	53	62	62	66	68	68	68	..	66.5
Doniphan	Maximum	89	91	87	87	89	90	92	93	93	94	94	96	95	95	95	96	96	87	74	69	68	71	75	77	80	85	76	78	76	84	..	85.7
	Minimum	60	65	64	69	66	67	57	67	64	69	65	65	65	71	67	66	66	62	50	43	35	35	39	54	58	54	60	62	62	66	..	59.8
Jackson	Maximum	91	92	91	93	92	86	92	91	91	93	94	98	98	98	98	98	99	90	75	70	68	71	72	82	79	82	80	73	77	82	..	86.5
	Minimum	52	59	64	65	66	65	68	70	68	66	65	65	63	65	65	65	66	63	45	43	32	33	37	47	56	52	63	63	64	66	..	58.7
Poplar Bluff	Maximum	94	94	95	95	99	92	95	95	99	99	100	99	98	99	100	101	101	92	82	77	76	80	78	80	82	90	74	79	77	85	..	90.2
	Minimum	59	61	67	63	67	66	66	68	66	66	65	64	64	66	67	66	65	64	48	43	35	35	37	48	56	53	61	62	64	65	..	59.2
Sikeston	Maximum	93	94	87	88	91	91	91	91	91	95	95	97	97	97	99	99	98	88	75	68	69	71	78	80	81	82	81	73	78	84	..	86.8
	Minimum	61	63	68	69	69	67	70	69	70	71	71	68	67	70	70	70	69	70	50	47	39	41	41	41	57	56	61	66	67	67	..	62.2
Cairo, Ill.	Maximum	88	91	86	87	88	87	88	87	88	91	92	95	94	96	93	94	95	87	72	65	66	70	72	78	78	79	82	74	79	83	..	84.2
	Minimum	67	68	70	72	69	69	72	73	72	74	75	74	74	74	74	76	73	65	56	52	46	49	50	57	63	62	66	68	66	67	..	66.4
Ozark Plateau.																																	
Arcadia§§	Maximum	87	83	88	85	85	85	88	86	90	92	93	92	93	92	94	95	95	81	77	67	67	75	74	75	75	83	70	72	72	80	..	83.0
	Minimum	55	58	63	63	62	63	66	68	64	65	67	62	62	61	63	63	65	67	43	42	31	32	36	45	55	50	53	59	58	58	..	56.6
Aurora	Maximum	83	87	86	86	86	87	89	87	91	90	91	93	91	91	89	92	92	86	74	65	67	77	64	62	74	70	65	67	80	82	..	81.5
	Minimum	64	68	65	66	67	67	68	68	69	68	67	68	67	67	67	67	69	59	47	53	36	48	51	54	54	59	50	47	65	60	..	60.8
Birchtree	Maximum	86	86	88	90	87	87	88	91	91	91	92	94	92	92	93	93	85	81	66	68	69	72	78	75	77	84	75	73	73	73	..	83.1
	Minimum	61	66	60	63	66	67	66	66	65	65	65	65	64	66	65	65	76	43	43	35	42	34	42	58	57	56	52	58	61	61	..	58.4
Eldon §§	Maximum	88	91	94	93	92	89	90	93	93	95	96	96	96	94	96	96	95	72	77	66	67	77	69	80	82	74	54	69	75	75	..	84.1
	Minimum	61	65	67	65	66	61	61	69	69	69	69	67	68	62	62	66	70	70	46	41	35	38	40	51	57	52	50	46	46	49	..	57.9
Farmington	Maximum	88	89	90	94	90	88	92	91	97	93	96	99	97	93	97	99	101	82	76	66	60	74	76	82	81	85	74	74	76	79	..	86.0
	Minimum	58	61	65	66	66	66	68	70	66	69	69	70	68	63	65	65	68	65	45	45	31	32	41	54	59	53	62	59	60	59	..	59.6
Koshkonong	Maximum	89	91	88	90	90	90	90	92	92	94	94	96	98	94	94	95	95	85	71	71	70	73	75	74	79	85	74	73	74	89	..	85.6
	Minimum	64	67	68	66	67	68	69	70	70	72	70	70	68	69	68	72	73	66	53	51	42	44	49	59	59	57	64	58	64	66	..	63.4
Lebanon§§	Maximum	84	88	89	89	91	86	89	93	91	91	94	95	94	93	96	97	95	75	75	64	66	75	71	75	79	76	61	70	79	80	..	83.4
	Minimum	56	59	64	62	62	64	66	67	65	64	62	62	64	66	64	65	65	66	38	38	32	32	39	53	57	58	53	49	49	53	..	56.5
Mountain Grove	Maximum	82	79	90	90	87	87	89	89	94	93	94	92	93	91	93	95	95	83	80	68	70	76	75	73	76	80	68	72	78	81	..	83.8
	Minimum	59	67	63	62	65	66	67	67	67	67	74	79	68	67	67	65	66	67	42	48	33	40	47	53	56	58	56	52	52	61	..	60.0
Neosho	Maximum	84	85	88	87	87	86	88	90	90	91	89	89	89	89	91	91	91	89	74	73	72	77	81	70	69	69	65	66	80	81	..	82.4
	Minimum	58	61	60	62	63	65	66	66	63	60	59	64	65	65	63	62	61	60	42	46	31	38	47	51	52	56	47	46	62	56	..	56.7
Rolla	Maximum	86	91	92	80	90	89	90	92	92	92	94	96	97	94	95	95	95	88	79	69	64	76	73	76	79	79	72	70	70	79	..	84.5
	Minimum	63	69	65	66	65	65	70	70	70	68	66	69	70	69	70	69	70	62	46	50	38	38	51	56	62	60	54	52	62	55	..	61.4
Springfield	Maximum	82	85	86	86	86	85	88	89	89	89	90	91	90	89	90	91	90	76	70	61	65	73	65	66	76	70	55	68	79	81	..	80.0
	Minimum	65	70	68	70	69	69	70	70	71	69	69	71	71	71	70	73	71	57	50	48	42	48	55	56	58	55	50	48	65	60	..	62.6
Southwest Plain.																																	
Amoret	Maximum	81	84	84	94	95	80	91	91	90	91	93	93	93	93	95	94	95	88	76	68	70	78	77	67	73	71	73	70	68	71	..	82.9
	Minimum	68	67	68	58	68	68	69	67	66	63	63	65	66	68	65	61	65	60	42	46	34	43	49	56	53	50	52	42	59	47	..	58.4
Appleton City	Maximum	86	89	92	91	89	87	87	91	92	93	93	94	93	93	93	94	94	85	76	67	68	77	68	70	74	71	52	64	79	68	..	82.3
	Minimum	64	65	66	68	69	67	69	69	69	68	66	67	68	69	69	69	68	61	48	47	38	47	54	53	56	51	46	46	59	52	..	60.4
Centerview	Maximum	87	90	96	93	93	87	88	92	92	93	95	95	95	93	95	96	95	72	76	72	67	79	75	76	81	60	68	60	70	72	..	83.4
	Minimum	62	65	64	66	67	68	69	70	68	67	68	68	76	69	71	72	70	61	49	47	38	44	48	54	52	45	51	51	60	59	..	60.7
Clinton	Maximum	89	90	94	95	94	87	92	94	95	97	96	97	95	96	97	97	98	85	77	72	72	79	75	71	77	72	60	62	78	75	..	85.3
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Harrisonville§§	Maximum	85	88	93	92	92	86	87	91	92	94	94	94	91	92	95	94	96	75	77	67	73	79	72	65	74	64	50	66	79	64	..	82.0
	Minimum	64	64	65	65	67	66	67	67	67	68	66	67	68	68	69	69	68	60	44	42	36	39	46	54	54	55	43	42	44	51	..	58.2
Lamar§§	Maximum	88	89	91	94	93	85	92	92	91	93	94	96	93	94	96	96	94	74	75	66	69	79	63	66	75	67	54	71	80	81		83 0
	Minimum	60	64	67	67	68	68	69	69	67	68	66	67	68	69	67	67	68	69	48	51	37	38	51	57	56	59	47	47	47	53	..	60.0
Lamonte	Maximum	91	94	98	97	92	88	91	96	95	93	98	98	97	98	99	98	100	81	78	65	69	82	76	73	80	73	53	69	81	68	..	85.7
	Minimum	63	64	65	65	66	66	66	68	68	65	64	68	69	68	68	67	68	56	41	44	35	41	54	52	56	49	45	46	59	47	..	58.4
Marshall	Maximum	92	92	93	95	92	88	88	97	95	92	99	100	99	99	101	99	102	100	81	69	..	80	68	74	76	72	51	69	70	70	..	ª86.3
	Minimum	68	70	66	65	70	64	67	66	68	67	67	65	65	67	66	70	69	65	42	37	..	38	37	50	45	51	42	48	45	48	..	ª58.2
Nevada	Maximum	83	88	89	89	88	84	90	91	91	91	92	93	92	93	93	93	94	89	74	71	78	77	72	61	74	66	52	64	79	77	..	82.4
	Minimum	64	64	67	67	68	68	70	70	67	69	70	69	70	70	70	68	70	61	45	50	37	50	55	56	56	51	45	46	60	52	..	60.8
Warsaw	Maximum	90	92	94	94	92	89	93	95	94	95	97	98	97	92	98	97	97	90	78	72	71	79	77	74	81	78	65	68	80	76	..	86.4
	Minimum	60	65	66	65	68	66	70	68	67	65	63	64	68	69	65	66	67	63	41	48	35	31	49	50	56	59	47	47	60	48	..	58.5
Northwest Plateau.																																	
Chillicothe §§	Maximum	89	92	86	93	94	86	85	93	93	94	96	96	94	95	98	95	98	72	75	63	68	79	79	70	76	54	54	65	79	65	..	82.5
	Minimum	61	63	66	62	63	65	65	66	68	67	66	68	68	68	68	67	72	61	42	40	35	35	47	51	53	53	44	43	45	49	..	57.4
Grant City	Maximum	86	90	81	88	92	85	84	93	93	95	94	91	93	93	96	92	93	83	72	67	67	75	76	66	67	61	51	61	75	65	..	80.9
	Minimum	64	63	67	71	65	67	66	69	69	69	67	68	69	70	71	67	72	56	45	45	37	38	51	56	53	43	40	44	52	47	..	58.7
Kansas City	Maximum	85	89	86	92	89	83	88	91	89	90	92	93	91	93	94	93	94	76	73	60	66	76	69	63	69	61	49	65	76	63	..	79.9
	Minimum	69	69	72	68	71	70	67	74	74	73	73	75	73	73	75	76	76	57	53	46	44	51	58	58	55	44	44	44	59	55	..	63.2
Kidder§§	Maximum	84	88	87	90	89	86	84	90	90	91	92	93	92	93	93	93	96	68	71	60	65	74	68	63	73	51	50	64	76	68	..	79.4
	Minimum	62	61	65	68	60	61	65	66	67	67	65	67	67	67	67	68	69	56	41	38	35	38	42	51	52	48	41	40	42	46	..	56.1
Lexington§§	Maximum	88	92	93	93	92	86	90	94	93	93	96	96	95	95	97	95	98	88	75	66	69	80	72	70	77	67	60	69	79	69	..	84.2
	Minimum	66	65	70	65	67	69	69	72	70	70	70	71	70	70	70	72	75	63	48	44	41	45	57	57	55	49	45	47	56	52	..	61.3
Maryville	Maximum	83	91	84	89	90	84	85	94	93	96	95	94	92	94	96	93	97	86	75	67	69	78	78	66	65	61	49	62	76	67	..	81.6
	Minimum	64	65	67	63	66	66	67	72	69	68	67	67	69	70	71	70	71	55	42	40	34	41	52	54	54	42	40	43	52	48	..	58.3
Oregon	Maximum	88	93	83	92	94	86	90	94	92	94	94	96	94	95	98	96	96	88	74	66	72	79	73	66	68	63	50	65	75	65	..	82.6
	Minimum	66	66	69	63	68	66	67	73	71	71	71	73	73	73	73	74	74	55	45	41	39	41	55	58	55	44	41	44	51	49	..	60 4
St. Joseph	Maximum	85	91	84	91	92	84	87	94	92	93	94	95	93	94	95	95	95	71	74	59	66	77	70	61	65	61	50	65	76	66	..	80.6
	Minimum	65	68	71	68	69	69	68	75	73	72	73	75	73	75	76	71	71	54	49	44	39	49	57	58	56	44	42	44	55	52	..	61.9
Trenton	Maximum	86	88	80	87	91	83	78	93	92	92	95	94	94	95	94	94	97	88	71	65	62	69	73	67	70	66	56	58	68	67	..	80.4
	Minimum	64	66	68	62	68	69	62	72	76	71	71	72	72	72	72	71	73	49	48	43	39	43	54	55	56	46	41	45	54	52	..	60.3

ª, ᵇ, ᶜ, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 10-26-27—915.

Continued from Page 36.

Hail.—Small, no damage, 3d, 7th, and 30th.

Halos, lunar.—None.

Halos, solar.—1st, 2d, 6th, 7th, 8th, 9th, and 27th.

Thunderstorms.—1st, 2d, 3d, 4th, 5th, 6th, 7th, 8th, 16th, 17th, 18th, 25th, 27th, 28th, 29th, and 30th.

SPECIAL STORM NOTES.

Sept. 5---A strong wind blew across St. Louis County from east to west about two miles south of Ferguson, on the Florissant Road. The wind seemed to travel in two paths, 50 feet wide and 150 feet apart, and apparently as straight-line winds. Seven oak trees, from 30 inches to 48 inches in diameter, and 100 years old, were blown down flat, uprooted in two straight lines, 600 feet long. No person was killed and none injured. Damage about $700.

Sept. 29.---This was a stormy day over nearly all parts of the State, with tornadoes developing here and there, and more or less violent thunderstorms and heavy rains. About 3 p. m. a small tornado-like wind swept across Ripley County, Mo., passing eastward in the vicinity of Doniphan. The wind seemed to be too high up to cut any clean path on the ground and only did damage here and there, unroofing some houses, breaking windows, and damaging crops, along an irregular path about ten miles long and one-fourth to one mile wide. No persons killed or injured. Damage to buildings, etc., $300; crops, $1,000.

A little later, about 4 p. m. or 4:30 p. m. a tornado moved into Butler County from Arkansas, west of Corning. It passed northeast over the village of Brosely, Butler County. It struck several communities, Brosely being the largest, in a path nearly 30 miles long, starting in the southwest corner of Butler County. The width varied from one-half mile down to 200 to 300 feet, the line of damage being distinct and greatest where the path narrowed down. A score of persons was reported injured, but a check up brought the number down to 11, and one killed, and this one by lightning just preceding the wind. Ten or twelve houses, including dwellings, barns, and schoolhouse, were wrecked or partly wrecked, the damage being estimated at about $15,000. Strong wind was felt at Butler, but without damage, and in Stoddard County the storm spent its fury in a downpour of rain. Strong winds caused some alarm but no damage as far west as Laclede County and north to St. Francois County, and still farther north in Linn County, where in the vicinity of Brookfield another tornado developed and traveled a short distance from southwest to northeast, tearing down one barn, worth about $400, but doing no other damage.

The most disastrous storm of this altogether stormy day, and reported to be the greatest natural disaster that has befallen the city in 31 years, struck and tore a diagonal path through St. Louis, laying waste one-sixteenth of the city's area, doing damage to the extent of considerably more than $22,000,000 and killing 72 people and injuring hundreds. (See more detailed report).

THE ST. LOUIS TORNADO OF SEPTEMBER 29, 1927.

By Montrose W. Hayes, Meteorologist, U. S. Weather Bureau, St. Louis, Mo.

On September 29, 1927, at 1.00 p. m., a tornado moved across St. Louis, passed over the Mississippi River, and dissipated in Illinois, about three and one-half miles from the river.

The weather map for 7 a. m., September 29, showed a barometric depression of considerable intensity over Nebraska and Kansas. Special observations at 1 p. m., the time of the occurrence of the storm, made in the Missouri and upper Mississippi Valleys, placed the center of the depression in western Iowa, exactly to the northwest of St. Louis, and 350 miles distant.

In St. Louis the day broke cloudy and rainy. Intermittent rain that began before daylight ended at 7.10 a. m. After the ending of the rain strato-cumulus clouds predominated, but during the forenoon the ceiling was broken and some alto-stratus clouds were visible. The sun shone for 25 minutes between 8 and 9 a. m. Shortly after 11 a. m. clouds became lower and thicker, and rain began at 11.26 a. m. The rain was quite light for slightly more than an hour and a half. Low clouds were moving very rapidly from the southwest. At 12.41 p. m. lightning was seen and thunder was heard in the west. The thunderstorm rapidly overspread the west and southwest, and appeared to move to the northeast, its path being to the west of the Weather Bureau office. At 12.57 p. m. the clouds were very low, thick and black. One large detached portion was particularly noticeable; it seemed very little above the high buildings and from the Weather Bureau office it was west of and slightly to the south of the Bell Telephone Building. Although this detached cloud was quite black and angry-looking no boiling motion was apparent. The rain became heavy, in a sudden downpour, at 1.02 p. m., and the wind had increased to a very high velocity by 1 p. m. The low clouds, and the rain driven by the high wind, made a solid impenetrable grayish-brown mass outside the office windows (looking to the south and west) and vision from the windows was totally obscured from 1.02 p. m. to about 1.05 p. m., when the atmosphere grew lighter. The wind force decreased materially at 1.05 p. m., but the rain continued heavy until 1.13 p. m. A special observation was begun at 1 p. m., but on account of the dark deluge of water through the instrument shelter the instruments could not be read; they were eventually read at 1.06 p. m.

The wind was strong from the southwest after 6 a. m.; at 12.35 p. m. it backed to the south, but occasionally veered to the southwest, and was not quite so strong. At 12.56 p. m. it came steadily from the south and increased in force. At 1.02 p. m. it veered to the west, and blew from that direction until 1.06 p. m., at which time it became west-northwest. The maximum velocity was at the rate of 70 miles an hour in the 5 minutes beginning at 12.58 p. m., and the direction was mostly south. The extreme velocity was at the rate of 96 miles an hour from the west, beginning at 1.02 p. m.

The barograph trace fell steadily until 10 a. m., when the rate of fall increased, and at about 12.50 p. m. the fall became much more pronounced. At 1.02 p. m. there was an instantaneous fall from 28.91 to 28.80, and the fall was followed immediately by an instantaneous rise to a reading of 29.02. The trace then fell steadily till 4.00 p. m., after which it remained almost stationary, with slight fluctuations, until 6.15 p. m., when a rise set in and prevailed through the night. A barometer reading made at 1.10 p. m. gave the following results: Actual reading corrected for temperature of the mercury, instrumental error and gravity, 28.833 inches; reduced to the station elevation (568.2 feet, or 148.6 feet lower than the barometer), 28.988 inches; reduced to sea level, 29.59 inches. Another reading, made at 2.20 p. m., gave corresponding results as follows: 28.805, 28.960 and 29.56 inches.

At the Weather Bureau office the storm was severe, but there was no general damage in the immediate vicinity. Some plate glass windows were blown out, but the storm was not, at the time it occurred, considered more severe than heavy thunderstorms that occur from time to time. The Weather Bureau office is about one and three-fourths miles from the nearest edge of the tornado, as indicated by minor damage, and is about three miles from the center of the path of the tornado, as indicated by the greatest destruction.

The storm apparently originated in the extreme southwest portion of St. Louis, and moved in a northeast direction to the neighborhood of Tower Grove and Vandeventer Avenues, a distance of four miles. Thus far the path was about 300 feet wide and the damage was in spots. There is considerable doubt about the progress of the tornado beyond Tower Grove and Vandeventer Avenues. It either bent northwestward or dissipated and another storm formed on Manchester Avenue, just to the west of Kingshighway, slightly more than one-half mile northwest of the path of the original storm. From Manchester and Kingshighway, across the extreme southeast corner of Forest Park, then northeastward to West Park and Taylor, a distance of three-fourths mile in a northeasterly direction, there was sporadic wreckage over a path about 300 feet wide. Then the path widened, the storm became violent and the damage became general.

The fact that the original storm appears to have moved in a path parallel, near its terminus, to what may be called a second path, which had its origin near Manchester Avenue and Kingshighway, coupled with the observations of Dr. Clifford H. Farr, Professor of Botany, Washington University, would seem to indicate that it was a second and more violent formation that caused the great damage and loss of life. The notes of Dr. Farr's observations follow:

"At one o'clock on September 29th I was waiting in the corridor on the second floor of Barnes Hospital, looking out of the north windows at the clouds. The impression which I gained by the increasing darkness was of an impending storm of some severity. I therefore stepped into a vacant room, No. 2422, in order to see the storm to the south. The window of the room was raised about eighteen inches. It commanded a view south across Kingshighway (where it runs east and west) and into Forest Park in a direction parallel to the Taylor car line. The north and south stretch of Kingshighway and the car line were, however, not in view because of a wing of the hospital.

"Upon entering the room I heard a sound as of an approaching train. Gusts of wind blew through the room. I went to the window to close it. As I did so the sound grew still louder, becoming a terrible roar. A dense dark cloud was resting in Forest Park. I could see across the street and some trees on the other side, but I felt that I could not see more than a block distant.

"Then suddenly the scene changed. Out of this dark cloud there was organized a funnel. Judging its distance to be a block, I estimated its base resting on the ground as about two hundred feet in diameter, its height about twice that of the hospital, that is, that of an eight story building, and its diameter at the top as about four hundred feet. After looking over the ground since the storm I have concluded that I visualized the funnel as nearer to me than it really was. Such a mistake would be easily made in an atmosphere of that foggy type. Now I think that the funnel when I first saw it was about three blocks away. In other words I probably saw it just as it was toppling over the Bates statue. In this case the funnel must have been about six hundred feet in diameter at the base, and twice as wide at the top and perhaps eight hundred feet high.

"Autos were running to and fro on the boulevard between me and the cloud. The trees along the street were being blown, but did not bend greatly. I marveled at so little disturbance of the trees. The funnel moved toward me; I thought directly toward me. As it approached I could see streaks in the cloud. Its outline was very sharp and clean cut. Presently I saw boards and other objects coming out of the top of the funnel or near its upper margin. These must have come from the tennis courts which it crossed after leaving the statue. I felt that it was coming straight toward the hospital. The screen on the window was pulled loose by the suction. This distracted my attention from the funnel for a moment; and when I looked again the funnel was gone, I knew not whither. It must have then crossed Kingshighway to the Shriners' Hospital which was not in sight from my window.

"In place of the funnel, however, I saw the trees bending toward the east, before the most terrific wind that I have ever witnessed. The trees were almost horizontal; some of them were laid flat permanently. No cars were now being driven in the street. I expected to see the parked cars move, but I could not detect them doing so.

"Almost immediately I heard windows in the hospital crash. One of these was a north window through I had been looking in the corridor before I entered the room. It crashed in. Then the blow was over.

"Evidently the funnel had passed to the east of us and the strong west wind which bent the trees and then broke the glass was blowing directly toward it.

"I have not made a careful study of the trees in the devastated area. However, casual observations while crossing it on Delmar, Lindell and Pine make me think that the storm may have continued throughout its course much as I saw it. It appears that in an area about one and one-fourth blocks wide that the trees are not uprooted but are twisted off above ground and the tops and debris carried away. To the west of this area there is a zone of progressively less destruction for a distance of five or six blocks in which the trees are blown to the east, as if by a west wind, and the trees, branches and debris are left in the street. To the east of the area the margin of progressively less destruction seems to be considerably narrower.

The path was almost due southwest to northeast from West Park and Taylor to the southeast limits of Granite City, Ill., where surface conditions of the whirling motion disappeared. There was general destruction over a path two and one-half miles long and in places three-eighths mile wide, but scattered damage occurred in a zone somewhat more than one and one-fourth miles across at its widest place, which was from Olive and Spring northwest to Easton and Newstead. At Grand and St. Louis Avenues the path narrowed considerably and the destructive action became much less general. Then on to the northeasterly end of the path, in Illinois, the wreckage was not widespread. In fact, it seems that over this portion of the path, the tornado's tube was not continuously in contact with the ground, but the winds, which were not markedly of a whirling nature, were excessively high. An interesting phase of the storm was the finding of papers in Hillsboro, Litchfield and Mt. Olive, Ill., that belonged to people in the devastated area of St. Louis. These towns are 40 to 50 miles northeast of a point just north of the McKinley bridge across the Mississippi, where the storm crossed the river. The papers seemed to have dropped from the sky.

The time taken in the passage of the storm from southwestern St. Louis to the southeast of Granite City, in Illinois, is not known. All reports of first damage in St. Louis place the time "about 1 p. m." An instantaneous drop and rise in the barometer trace in the Weather Bureau office (one and three-fourths miles southeast of the nearest edge of the storm, and 3 miles from the center) took place at 1.02 p. m., and the extreme wind velocity (96 miles an hour) was at the same time. Reports from the Illinois side of the river, place the time of the storm "a few minutes after 1 p. m."

A comparative analysis of the storm would be impossible, but judging from the reports of the character of destruction and from the pressure falls recorded by the nearest barographs, this tornado was not as violent in a meteorological sense as the St. Louis tornado of May 27, 1896, and the southern Illinois tornado of March 18, 1925. Destruction of life and property is obviously no criterion of the relative severity.

In St. Louis 72 people were killed; of this number several died of injuries some days after the storm. The injured numbered around 500. Fortunately, there were few fires following the storm, but several persons (not included in the 72) were killed while at work in the wreckage. In Illinois several people were killed and one man died of heart failure; there were about 50 injured.

The monetary damage is, of course, not definitely known, and probably never will be. A careful survey in St. Louis indicates that, exclusive of motor cars and the contents of buildings of whatever nature, the damage amounted to $22,000,000. In Illinois the total damage was probably less than $3,000,000.

Minute examinations are being made of the classes of construction in the storm's path. Valuable lessons will be learned from the experience, but no definite conclusions have been reached yet. Photographs of buildings in the storm zone show the major damage was suffered by old residences and flat buildings. Two modern apartments near the center of the path suffered minor damage, consisting largely of blown-off parapet walls and blown-out windows. Industrial plants suffered great damage. In all damaged buildings near the storm's center an explosive effect was plainly marked.

1.05
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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

OF THE
NOV 29 1927
UNIVERSITY OF ILLINOIS

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXXI. Columbia, Mo., October, 1927. No. 10.

GENERAL SUMMARY.

October, 1927, in Missouri, was, for the most part a very pleasant fall month, with typical "Indian Summer" weather prevailing. However the series of general storms that were in progress at the close of September continued into October and were the outstanding features over practically all the State on the first two or three days. During this stormy period unusually heavy amounts of precipitation occurred widely, save the extreme southeast part, the greater part of the monthly total rainfall being recorded on the first two days. From the 12th to the 30th made up a period of unusually warm, dry, and clear weather that embraced the entire State and day after day the sunshine was 90 to 100 per cent of the possible. This prolonged type of fine weather was of great economic value to the people of the State of Missouri. It made up largely what the late summer lacked good maturing weather for late crops, and practically all crops were late. The absence of any general killing frost permitted an unusually long growing season and by the close of the month all seasonal farm crops and activities were excellent and well advanced.

The month was one of the warmest of record, and the last six or seven days were the warmest of any similar period in October in 40 years. While the month averaged near two inches wetter than normal it was in fact relatively a dry month because nearly all the water fell during the first few days and the last day. After the 12th there were seventeen consecutive days without rain and very little cloudiness.

Aside from some small damage by wind and water the first day or two the month was free from both hail and severe windstorms.

TEMPERATURE.

The mean temperature for the State, as shown by the records of 66 stations, was 60.9°, or 3.5° higher than the normal, and the distribution was remarkably uniform. There was no general killing frost but on the 14th, 18th, and 19th rather general and heavy deposits were recorded and locally at a few stations killing frosts were reported on those dates. The resulting damage, however, was small. Summer warmth prevailed the last week or more of the month. Maxima of 90° to 93° were general on the 23d, 24th, 25th, and 27th, and exceeding the record for so late in October. The minimum reached 32° or lower at eight stations on 4 days in the northeast plain; four stations on 2 days in the southeastern lowlands; nine stations on 7 days Ozark Plateau; two stations on 2 days southwestern plain, and at three stations on 4 days in the northwestern plateau.

PRECIPITATION.

The average precipitation for the State, 101 stations reporting, was 4.72 inches, or about 1.97 inches more than the 56 years' average, and the third consecutive October with a large moisture excess. The records are somewhat misleading because most of the month was dry and fine. Practically all of the rain occurred the first ten or twelve days, and much the greater part of the total fell on two days. the first and second. While limited to a few days monthly totals were excessive in most of the State, over 10 inches being recorded at Kirksville and Chillicothe, and over 9 inches at Amoret. The heaviest 24 hour amount ever recorded in October occurred at Amoret, 8.85 inches falling on the 1st, while the second heaviest amount, 6.15 inches, fell at Chillicothe on the same date, and also 5.81 inches at Gorin. Bright sunshiny weather prevailed from the 13th to the 29th.

MISCELLANEOUS PHENOMENA.

Aurora.---At Warrenton on the 22d.

Fogs, dense.---8th, 9th, and 14th.

Frosts, light.---4th, 8th, 9th, 10th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, and 31st.

Frosts, heavy.---1st, 3d, 14th, 18th, and 19th.

Frosts, killing.---Locally on the 14th, 18th. and 19th.

Hail, small.---Eldon on the 1st; Conception 6th; Fulton, Neosho, Seligman, 11th; Seymour, 12th.

Halos, lunar.---6th Solar.---23d, 24th, 25th, 29th, and 30th.

Thunderstorms.---1st, 2d, 3d, 5th, 6th, 7th, 11th, 12th, 30th, and 31st.

SPECIAL STORM NOTES.

Between midnight of October 2 and 2 a. m. of the 3d a strong wind entered the extreme southwest part of Missouri, coming from Kansas, thence northeast over the western part of McDonald and through the central part of Newton County. Most of the reports indicated a strong straight blowing wind, but in the vicinity of Neosho, Newton County there was some evidence of a tornado whirl. No injury to persons or livestock was reported. Loss to buildings, etc. about $4,300; crops, $1,000.

Oct. 3.---A. T. Crouse, farmer, six miles south of Cameron was killed by lightning.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
								Max. velocity.		
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Miles per hour.	Direction.	Date.
Columbia	30.02	79	59	268	77	5,252	7.1	31	se.	2
Hannibal	30.02	79	..	...	..	5,902	7.9	30	s.	30
Kansas City	30.00	71	49	290	84	7,361	9.9	36	n.	11
St. Joseph	29.98	78	53	271	78	5,461	7.3	34	nw.	12
St. Louis	30.03	76	56	262	76	6,792	9.1	54	sw.	2
Springfield	30.00	76	50	276	79	6,930	9.3	28	s.	2
Cairo, Ill	30.05	83	61	...	..	5,206	7.0	33	se.	11
Keokuk, Iowa	30.01	79	60	231	67	4,783	6.4	35	s.	2

COMPARATIVE DATA FOR OCTOBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	53.6	−3.5	89	24	2.65	+0.21	......	....	7	....	....	....
1889	53.8	−3.3	91	27	2.50	+0.06	......	....	6	....	....	....
1890	54.8	−2.3	91	22	2.24	−0.20	.....	....	6	....	....	....
1891	55.7	−1.4	98	19	1.11	−1.33	....	....	3	....	....	....
1892	57.5	+0.6	95	16	2.28	−0.16	2.40	0	5	16	7	8
1893	56.7	−0.4	95	16	0.99	−1.45	2.81	....	10	20	8	3
1894	57.6	+0.5	94	18	1.74	+0.70	3.52	T.	6	17	8	6
1895	54.2	−5.9	89	15	0.35	−2.09	1.20	T.	2	21	6	4
1896	54.1	−3.0	90	19	2.48	+0.04	2.68	0	5	19	6	6
1897	62.5	+5.4	99	23	0.71	−1.73	1.70	0	3	22	6	3
1898	53.5	−3.6	94	19	4.23	+1.79	4.51	1.4	8	11	7	13
1899	62.4	+5.3	100	24	2.93	+0.49	2.53	0	5	20	6	5
1900	62.4	+5.3	92	25	4.18	+1.74	4.04	0	7	17	7	7
1901	60.1	+3.0	96	24	1.64	−0.80	2.98	0	6	18	8	5
1902	59.5	+2.4	88	28	2.52	+0.08	2.69	0	5	21	5	5
1903	57.2	+0.1	90	19	2.85	+0.41	3.80	0	6	19	6	6
1904	57.6	+0.5	90	19	0.90	−1.54	2.46	0	3	20	7	4
1905	55.1	−2.0	90	20	4.64	+2.20	7.47	0.3	5	17	6	8
1906	56.3	−0.8	94	17	0.87	−1.57	1.50	0	10	15	7	9
1907	56.7	−0.4	94	18	2.90	+0.46	3.46	0	7	19	5	7
1908	56.3	−0.8	92	21	2.74	+0.30	4.90	0.8	5	18	6	7
1909	57.2	+0.1	96	20	2.77	+0.33	2.57	T.	6	19	5	7
1910	59.4	+2.3	94	15	2.71	+0.27	5.50	0	5	22	4	5
1911	56.9	−0.2	96	25	3.30	+0.86	5.12	0.2	8	11	7	13
1912	59.1	+2.0	97	21	3.83	+1.39	5.12	0.7	6	20	5	6
1913	54.7	−2.5	93	11	4.46	+1.94	2.80	3.3	9	15	6	10
1914	59.2	+2.0	88	19	4.54	+2.04	5.40	0	7	14	6	11
1915	59.8	+2.9	95	22	1.19	−1.45	1.97	0	3	23	5	3
1916	58.0	+0.7	95	20	2.17	−0.54	3.90	0	6	18	5	8
1917	49.8	−7.4	93	12	1.16	−1.49	2.00	0.2	6	16	8	7
1918	60.6	+3.5	95	28	3.37	+0.71	5.61	0	7	14	6	11
1919	58.4	+1.4	98	17	6.74	+3.92	4.91	0	11	10	7	14
1920	61.3	+4.3	93	18	2.89	+0.25	2.45	T	7	17	6	8
1921	57.9	+0.8	92	24	2.19	−0.40	2.32	0	5	21	5	5
1922	59.9	+2.4	97	18	2.00	−0.77	3.00	0	5	20	5	6
1923	53.0	−4.4	89	17	3.39	+0.64	2.76	0.1	9	15	5	11
1924	61.8	+4.4	92	21	1.22	−1.53	2.73	0	4	22	5	4
1925	48.6	−8.8	92	−3	4.85	+2.10	3.12	2.4	10	8	8	15
1926	57.3	−0.1	93	21	4.67	+1.92	3.85	0	9	14	6	11
1927	60.9	+3.5	93	26	4.72	+1.97	8.85	0	5	22	5	4

Climatological Data for October, 1927

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip. .01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	47	59.4	+ 4.2	87	23†	35	14	43	3.93	+1.20	2.15	0	5	24	0	7	se.	O. K. Benecke
Clifton Hill	Randolph	731	27	59.7	+ 2.5	86	24†	32	14	41	5.43	+3.31	2.90	0	6	19	4	8	......	Dr. A. J. Bradsher
Columbia	Boone	748	36	60.6	+ 4.0	87	27	35	18	36	5.08	+2.66	2.85	0	4	21	3	7	se.	U. S. Weather Bureau
Downing	Schuyler	876	5	59.8	......	88	27	33	18	38	8.51	+6.31	2.80	0	7	21	4	6	sw.	James Taylor
Fayette	Howard	661	46	58.8	+ 2.1	89	24†	29	14	50	4.49	+2.01	1.87	0	4	..	..	..	......	J. D. Settle
Fulton	Callaway	818	38	59.4	+ 1.7	87	7	32	14	41	4.60	+1.85	1.66	0	8	21	6	4	......	Chamber of Commerce
Gorin	Scotland	700	39	....	......	..	..	..	..	..	10.29	+7.91	5.81	0	7	18	1	12	sw.	J. W. Pulliam
Hannibal	Marion	534	34	59.8	+ 3.8	86	27	32	14	35	4.82	+3.18	2.05	0	6	17	5	9	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	60.2	+ 3.5	86	22†	35	14	45	5.16	+2.57	2.20	0	6	22	3	6	s.	Miss Emma Swift
Kirksville	Adair	969	37	59.4	+ 4.7	88	25	32	18†	51	10.59	+7.86	3.96	0	7	21	5	5	sw.	Prof. J. S. Stokes
Louisiana ††	Pike	469	32	60.6	+ 4.3	87	27†	32	17†	42	4.76	+2.13	1.52	0	6	18	6	7	w.	J. T. Farrell
Macon	Macon	875	27	59.0	+ 2.2	88	26†	32	18	39	4.44	+1.71	2.95	0	5	21	8	2	sw.	W. C. Brown
Mexico	Audrain	800	37	62.9	+ 6.5	89	28	40	14†	38	5.48	+3 10	2.00	0	5	24	1	6	s.	Mrs. Abbie Snoddy
Monroe City	Monroe	748	6	....	......	..	..	..	..	..	5.10	......	2.46	0	5	20	7	4	nw.	J. S. Conway
St. Charles	St. Charles	456	38	62.4	+ 4.3	89	27†	34	14†	37	4.10	+1.43	1.53	0	7	21	2	8	s.	L. C. Saeger
St. Louis (1)	St. Louis City	568	52	62.8	+ 4.0	86	6	40	18	31	4.65	+2.24	1.58	0	6	20	6	5	sw.	U. S. Weather Bureau
St. Louis (2)	....do	578	14	62.1	+ 3.2	86	6	40	18	32	4 46	+0.67	1.28	0	6	21	5	5	se.	St. Louis University
Shelbina	Shelby	779	33	....	......	..	..	..	..	..	4.58	+1.86	2.57	0	7	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	28	60.2[a]	+ 2.5	86	26†	32	14†	45	4.65	+2.53	2.70	0	4	16[a]	11[a]	3[a]	s	Frank Hall
Unionville	Putnam	1,062	33	58.2	+ 2.8	88	25	31	18	41	6.55	+4.09	3.20	0	8	17	7	7	nw.	Geo. W. Davis
Warrenton	Warren	816	44	61.8	+ 6.2	90	27	33	18	34	3.55	+0.69	1.32	0	7	19	6	6	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	614	54	59.3	+ 3.9	85	27	35	14	36	4.16	+1.67	1.67	0	6	15	8	8	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	60 3	+ 3.7	90	27	29	14	51	5.46	+2.94	5.81	0	6	20	5	6	sw.	
Southeast Lowlands.																				
Benton	Scott	340	1	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	...	E. R. Tirmenstein
Campbell	Dunklin	314	1	62.4	......	89	6†	33	19	44	3.29	......	1.70	0	5	20	8	3	n.	Jeff. King
Caruthersville	Pemiscot	265	30	....	......	..	..	..	..	..	....	......	....	0	..	..	..	..	......	John T. Markey
Doniphan	Ripley	344	22	61.4	+ 3.0	90	23	31	19	46	2.12	−0.93	0.88	0	3	27	3	1	sw.	W.W. Martin
Jackson	Cape Girardeau	428	35	60.2	+ 2.2	88	7	29	19	44	3.42	+0.20	1.18	0	5	17	6	8	n.	John G. Putz
Marble Hill	Bollinger	470	31	61.6	+ 3.6	90	28	30	19	44	2.30	−0.35	1.60	0	3	24	2	5	n.	R.A. DeWitt
Morehouse	New Madrid	289	25	....	......	..	..	..	..	..	1.79	−0.81	0.76	0	3	24	6	1	n.	John A. Spence
Parma	New Madrid	281	9	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	......	H. W. Kendall
Patton	Bollinger	605	17	....	......	..	..	..	..	..	....	......	....	..	..	..	..	..	....	S. P. Presnell
Poplar Bluff	Butler	339	22	62.6	+ 2.3	92	23	30	19	49	1.58	−1.62	0.69	0	4	26	3	2	s	J. H. Wolpers
Sikeston	Scott.	318	21	62.2	+ 3.4	89	6	35	19	40	1.49	−1.11	0 53	0	4	23	5	3	sw.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	358	51	63.5	+ 3.1	86	28	40	18	30	2.18	−0.45	1.06	0	4	17	7	7	n.	U. S. Weather Bureau
Section means and	extremes	....	..	62.0	+ 2.9	92	23	29	19	49	2.27	−0.72	1.70	0	4	22	5	4	n.	
Ozark Plateau.																				
Arcadia	Iron	926	45	58.8	+ 2.7	87	28	29	19	48	3.62	+0.55	1.88	0	4	27	1	3	s.	Arcadia College
Aurora	Lawrence	1,370	36	62.2	+ 3.7	84	26†	37	18	33	3.81	+0.54	2.27	0	5	24	4	3	sw.	W. T. Troughton
Birchtree (near)	Shannon	1,000	31	62.6	+ 4.4	87	27	32	14†	44	1.83	−0.75	1.10	0	4	25	2	4	sw.	V. H. Kirkendall
Bolivar	Polk	1,071	32	62.6	+ 4.1	87	25	34	14	40	4.08	+0.77	1.91	0	8	24	3	4	s.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	27	....	......	93	23	..	..	..	5.12	+1.63	2.95	0	6	26[a]	1[a]	3[a]	e.	H. E. Dean
Eldon	Miller	934	30	60.0	+ 2.3	88	26†	34	14†	47	4.91	+1.88	1.73	0	6	19	6	6	w.	E. H. Shepherd
Farmington	St. Francois	918	15	61.0	+ 4.6	88	6	30	19	41	2.56	−0.33	0.81	0	6	18	11	2	sw.	Robert Forsyth
Goodland	Iron	1,000	32	59.7	+ 3.9	90	27	26	19	53	2 60	−0.62	1.38	0	4	22	6	3	s.	F. M. Adams
Greenville	Wayne	381	4	....	......	..	..	..	..	..	....	......	...	..	..	..	..	..	......	Wm. P. Owens
Hailey	Barry	1,350	1	....	......	..	..	..	..	..	3 83	......	2.00	0	5	29	1	1	sw.	A. W. Madison
Koshkonong	Oregon	958	25	64.3	+ 4.3	88	29	36	18	32	1.59	−1.32	0.90	0	5	23	5	3	sw.	R. M. Hitt
Lebanon	Laclede	1,265	38	59.5	+ 1.5	87	6†	29	18	50	4.35	+1.09	1.47	0	5	23	4	4	sw.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	20	62.6	+ 4.0	85	24†	36	18	33	3 84	+0.39	1.91	0	4	25	4	2	sw.	C. S. Crow
Mountain Grove(near)	Wright	1,463	25	61.5	+ 3.9	90	27	31	18	46	5.32	+2.27	2.16	0	5	22	5	4	nw.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	60.5	+ 1.3	83	24	30	18	40	4.42	+1.03	2.96	0	5	26	4	1	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	26	61.9	+ 6.0	87	27	35	14†	38	4.05	+1.10	1.76	0	6	23	2	6	s.	Prof. Elmo G. Harris
Salem(near)	Dent	1,173	22	59.8	+ 1.8	86	27	30	18	43	3.68	+0.20	1.03	0	7	22	5	4	nw	A. C. Leech
Seligman	Barry	1,542	24	63.2	+ 4.9	88	24	36	18	42	3.63	+0.69	1.92	0	4	24	5	2	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,642	20	60 2	+ 2.7	85	27	30	14†	47	6.31	+3.30	2.38	0	6	23	4	4	s.	Ira H. Hailey
Springfield	Greene	1,324	38	62.2	+ 4.0	84	25	39	18	33	4.29	+1.49	3.20	0	6	25	2	4	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	61.3	+ 3.5	93	23	26	19	53	3.89	+0.77	3.20	0	5	24	4	3	sw.	
Southwest Plain.																				
Amoret	Bates	831	19	60.8	+ 3.7	88	24†	32	13	48	9.14	+6.62	8.85	0	3	25	3	3	s.	Andrew Rood
Appleton City	St. Clair	853	32	61.8	+ 2.7	88	24	37	14	39	5.26	+2.92	2.20	0	6	20	8	3	sw.	W. G. Bigelow
Centerview	Johnson	872	39	60.6	+ 2.5	87	25	36	18	42	3.84	+1.29	2.00	0	4	14[j]	1[j]	6[j]	sw.	E. A. Markey
Clinton	Henry	765	33	63.0	+ 4.4	88	26	37	13†	40	5.79	+2.98	2.90	0	6	21	7	3	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	49	60.6	+ 4.6	87	24†	35	13	44	8.19	+5.60	4.64	0	5	17	3	11	s.	John H. Patterson
Lamar	Barton	980	39	61.8	+ 2.9	88	25†	37	13	40	4.63	+1.50	2.20	0	4	21	5	5	sw.	Jesse A. Mann
Lamonte	Pettis	867	25	61.4	+ 3.4	91	24†	33	8†	48	5.39	+3.06	2.28	0	6	23	7	1	se.	J. E. Wheeler
Marshall	Saline	779	37	60.3[b]	+ 3.7	88	27	34	13†	42	6.31	+3.73	2.80	0	6	21[c]	3[c]	4[c]	sw.	Dr. W. H. Black
Nevada	Vernon	862	33	62.2	+ 4.9	86	26	37	18	37	4.13	+1.05	2.80	0	4	21	6	4	sw.	George A. Kaupp
Warsaw	Benton	687	26	62.2	+ 3.1	89	24†	31	14	48	5.79	+2.48	2.80	0	4	16	12	3	w.	Everett Martin
Section means and	extremes	.....	..	61.5	+ 3.6	91	24†	31	14	48	5 85	+3.12	8.85	0	5	20	6	5	sw.	
Northwest Plateau.																				
Bethany	Harrison	916	34	58.6	+ 3.9	86	25†	32	14†	46	4.03	+1.82	2.10	0	6	19	8	4	se.	M. H. Moulton
Chillicothe	Livingston	779	17	58.5	+ 0.3	90	24	31	14	49	10 19	+6.74	6.15	0	6	22	6	3	se.	Wm. J. Olenhouse
Conception	Nodaway	980	37	60.4	+ 4.9	89	24†	35	13	40	6.27	+3.82	3.49	0	6	19	7	5	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	6	59.0[b]	......	88	25	32	8†	49	4.61	+2.36	1.79	0	9	26	1	4	s.	Fred L Stiff
Grant City	Worth	1,134	22	59.4	+ 4.0	86	25	36	13†	35	4.66	+1.94	1.45	0	6	17	10	4	sw	W. P. Spillman
Kansas City	Jackson	963	37	62.7	+ 5.0	86	27	41	13	29	5.30	+3.09	1.05	0	7	23	4	4	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	33	56.8	+ 0.4	87	27	34	14†	43	5.74	+3.12	2.38	0	8	22	1	8	s	Linn Terry
King City	Gentry	1,095	1	....	......	..	..	..	..	..	5.25	...	1.87	0	7	..	..	..	......	D. B. Oliver
Lexington	Lafayette	688	41	62.4	+ 4.9	88	24†	37	18	37	5.68	+3.11	2.70	0	4	20	9	2	s	Miss Carrie Loomis
Liberty	Clay	859	36	60.6[a]	+ 3.1	86	26†	34	14	39	9.14	+6.69	3.66	0	7	26	0	5	s.	Pryor Carpenter
Maryville	Nodaway	1,169	36	60.4	+ 7.1	90	24	35	13	41	4.31	+1.64	1.29	0	8	22	2	7	s.	J. R. Brink
Oregon	Holt	1,048	70	62.5	+ 7.6	90	25	36	13	39	5.22	+2.66	2.14	0	6	23	6	2	sw.	Mina Wright
St. Joseph	Buchanan	967	18	61.2	+ 4.9	88	27	39	13	37	4.63	+2.07	1.66	0	7	23	5	3	se.	U. S. Weather Bureau
Tarkio	Atchison	916	23	58.2	+ 2.7	88	24	34	31	43	3.74	+1.17	1.97	0	5	18	6	7	sw.	Albert Volker
Trenton	Grundy	822	30	59.0	+ 2.7	86	24†	38	14	39	7.20	+4.64	1.88	0	7	21	5	5	s.	W. H. Estes
Section means and	extremes	.....	..	60.0	+ 4.0	90	24†	31	14	49	5.73	+3.20	6.15	0	7	22	5	4	s.	
State means and	extremes	.....	..	60.9	+ 3.5	93	23	26	19	53	4.72	+1.97	8.85	0	5	22	5	4	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b], represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson.

Daily Precipitation for October, 1927

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	2.02	2.40	.05	....	....	....	.38	....	....	....	.07	.52	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.01	....	5.45
Brunswick‖	Grand	.78	2.15	....	....	....	.15	....	....	....	....	....	.80	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.05	....	3.93
Clifton Hill	Chariton	.98	2.90	.06	....	....	....	....	....	....	....	.90	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.02	.57	5.43
Columbia***	Missouri	2.11	1.55	T.	....	....	.87	....	....	....	....	.55	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	5.08
Downing	Mississippi	2.15	2.80	.06	....	.98	.62	....	....	....	....	1.75	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.15	....	8.51
Fayette‖‖	Missouri	1.14	1.87	....	....	....	....	.31	....	....	....	1.17	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4.49
Fulton	do	.69	1.66	.46	....	....	....	.78	....	....	....	.47	.52	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.01	.01	4.60
Gorin	Mississippi	5.81	2.23	.04	.04	.32	....	....	....	....	....	1.59	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.26	10.29
Hannibal***	do	1.32	.79	.01	....	....	.63	....	....	....	....	2.05	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.02	4.82
Hermann‖	Missouri	.05	.25	1.25	....	....	....	.95	....	....	....	....	.50	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.00
Jefferson City‖	do	.70	2.20	.60	....	....	....	1.23	....	....	....	....	.40	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.03	5.16
Kirksville	Mississippi	3.96	3.80	.05	....	.40	.50	....	....	....	....	1.86	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.02	....	10.59
Louisiana	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Macon ‖	Chariton	.35	2.95	....	.03	....	....	....	....	....	....	....	1.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.06	4.44
Mexico ‖	Mississippi	1.19	2.00	.60	....	....	....	1.14	....	....	....	....	.55	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	5.48
Milan‖	Grand	4.25	1.80	.10	.12	....	.15	....	....	....	.60	.80	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.12	....	....	7.94
Monroe City	Mississippi	.61	2.46	....	....	....	.11	.06	....	....	....	1.86	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	5.10
Pacific‖	Meramec	.70	.61	.90	....	....	....	1.40	T.	....	....	....	.90	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T	4.51
St. Charles	Missouri	1.53	.42	.18	....	....	....	.83	....	....	....	.14	.81	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.19	4.10
St. Louis (1)***	Mississippi	1.54	.49	....	....	....	.61	.97	....	....	T.	.92	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.12	4.65
St. Louis (2)*	do	1.21	.44	....	....	....	.55	1.28	....	....	....	.92	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.06	4.46
Shelbina ‖‖	do	.29	2.57	.27	.03	....	....	.01	....	....	....	....	1.30	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.11	4.58
Steffenville	do	.45	2.70	T.	....	....	.25	....	....	....	....	1.25	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	4.65
Union‖	Meramec	1.01	.32	.84	....	....	....	1.69	....	....	....	.02	1.15	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.09	5.12
Unionville	Chariton	1.70	1.50	.10	....	.45	1.50	....	....	.10	....	1.10	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.10	....	6.55
Warrenton	Mississippi	.60	1.32	.02	....	....	....	.46	....	....	....	.18	.75	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.22	3.55
Keokuk, Ia.***	do	1.25	.94	.11	....	T.	.54	....	....	....	....	1.30	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.02	....	4.16
Southeast Lowlands																																	
Benton	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Campbell‖	St. Francis	.45	....	.28	....	....	....	1.70	.30	....	....	....	.56	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.29
Cape Girardeau‖	Mississippi	.09	.19	.48	....	....	....	.55	.04	....	....	....	1.56	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.91
Caruthersville ‖	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Dexter‖	St. Francis	....	....	.38	....	....	....	1.24	....	....	....	....	1.12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.74
Doniphan	Black	....	.88	....	....	....	....	.47	....	....	....	T.	.77	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	2.12
Jackson	Mississippi	.60	.17	.34	....	....	....	1 18	....	....	....	....	1.13	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.42
Marble Hill	Mississippi	....	.60	....	....	....	....	....	....	....	....	....	1.60	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.10	2.30
Morehouse	do	....	....	.46	....	....	....	.76	....	....	....	....	.57	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.79
New Madrid‖	do	.10	....	.50	....	....	....	.55	.72	....	....	....	1.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.92
Parma	St. Francis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Patton	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Poplar Bluff	Black	....	.55	....	....	....	.29	.05	....	....	....	.69	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.58
Sikeston‖	Mississippi	T	....	.36	....	....	....	.33	.27	....	....	....	.53	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.49
Cairo, Ill.***	do	....	.38	....	....	....	....	1.06	T.	....	....	.67	.07	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	2.18
Ozark Plateau.																																	
Arcadia ‖	St. Francis	T.	....	1.00	....	....	....	1.88	....	....	....	....	.71	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.03	3.62
Aurora	Neosho	.27	2.27	....	....	....	....	.89	....	....	....	.33	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.05	3.81
Birchtree (near)	Black	....	1.10	....	....	....	....	.13	....	....	....	....	.42	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.18	1.83
Bolivar	Osage	.25	1.91	.01	....	....	.45	1.08	....	....	....	.28	.07	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.03	....	4.08
Caplinger Mills	Osage	1.47	1.97	T.	....	....	T.	.47	....	....	....	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	3.95
Dean	Neosho	.40	2.95	....	....	....	....	.98	....	....	....	.54	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.15	.10	5.12
Eldon‖‖	Missouri	1.10	1.73	.81	....	....	....	.56	....	....	....	....	.66	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.05	4.91
Farmington	St. Francis	.13	.78	....	....	....	....	.75	....	....	....	.05	.81	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.04	2.56
Fredericktown‖‖	do	....	....	....	.58	....	....	....	1.20	....	....	....	.72	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.50
Galena‖‖	White	1.34	1.95	.53	....	....	....	1.80	....	....	....	....	.65	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.25	6.52
Goodland	Black	.42	1.38	....	....	....	....	.72	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.08	2.60
Greenville	St. Francis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Hailey	White	.80	.88	....	....	....	....	....	....	....	2.00	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.10	.05	3.83
Koshkonong	Black	.02	.90	....	....	....	....	.03	....	....	....	....	.54	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.10	1.59
Lebanon ‖	Osage	....	1.47	1.43	....	....	....	1.15	....	....	....	....	.25	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.05	4.35
Lockwood	do	.77	1.91	....	....	....	.91	....	....	....	....	.25	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.84
Mountain Grove‖	White	.56	2.16	....	....	....	....	1.05	....	....	....	....	1.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.35	5.32
Neosho	Neosho	.30	2.96	....	....	....	....	.48	....	....	T.	.56	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.12	4.42
Owensville ‖	Gasconade	T.	.42	1.45	....	....	....	.20	....	....	....	....	.88	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2.95
Rolla	Meramec	.12	1.76	....	....	....	1.19	....	....	....	.04	.78	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.16	....	4.05
Salem (near)	do	.45	1.00	....	....	....	....	1.03	....	....	....	.72	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.11	.17	3.68
Seligman	Neosho	.90	1.92	....	....	....	....	.33	....	....	....	.48	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	3.63
Seymour (near)	White	.77	2.38	....	....	....	....	1.90	....	....	....	.60	.62	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.04	6.31
Springfield ***	do	....	1.17	2.03	....	....	.16	.79	....	....	T.	.13	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.01	T.	4.29
Steelville‖	Meramec	.98	.27	.90	....	....	....	1.35	....	....	....	.12	1.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.15	4.82
Stover ‖	Missouri	1.02	2.69	....	....	....	....	1.64	....	....	....	....	.37	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5.72
Tuscumbia ‖	Osage	1.60	1.67	.93	....	....	....	1.12	....	....	....	....	.72	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.03	.07	6.14
Willow Sprgs. ‖‖ (near)	White	.10	.65	1.39	....	....	....	.11	....	....	....	....	.84	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.28	3.37
Southwest Plain.																																	
Amoret	Osage	8.85	....	....	....	....	....	....	....	....	....	.16	.13	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	9.14
Appleton City	do	2.20	2.20	T	....	....	T.	.22	....	....	....	.10	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.50	....	5 26
Centerview	Missouri	2.00	....	.03	....	....	....	....	....	....	....	1.75	.06	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	3.84
Clinton	Osage	2.07	2.90	T.	....	....	....	.55	....	....	....	.10	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.12	....	5.79
Concordia‖‖	Missouri	3.50	4.00	....	....	....	....	....	....	....	....	....	.95	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	8 45
Harrisonville‖	Osage	4.64	2.95	.03	....	....	....	....	....	....	....	.36	.21	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	8 19
Joplin*	Neosho	2.51	.90	....	....	....	1.80	.02	....	....	T.	.23	T	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	5.46
Lamar ‖	do	.28	2.20	....	....	....	....	1.75	....	....	....	....	.40	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4.63
Lamonte	Missouri	1.84	2.28	....	....	....	.25	....	....	....	....	.80	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.17	....	5.39
Marshall	do	1.89	2.80	....	....	....	....	.05	....	....	....	1.34	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.18	....	6.31
Nevada	Osage	.50	2.80	....	....	....	.13	.70	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	4.13
Osceola‖‖	do	1.26	3.25	....	....	....	....	1.54	....	....	....	....	.18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	6.23
Warsaw	do	2.80	2.07	....	....	....	.16	.76	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	5.79
Waverly ‖	Missouri	2.00	2.81	....	.03	....	T.	T.	....	....	....	.09	.96	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	5.89
Northwest Plateau.																																	
Albany‖‖	Grand	....	1.17	....	....	....	1.06	T.	....	....	....	....	....	....	T.	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	2 23
Bethany	do	.78	.90	.12	....	.10	2.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.03	....	4.03
Chillicothe ‖‖	do	6.15	2.92	....	.03	T.	.23	T.	T.	....	....	.41	.45	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	10.19
Conception	Missouri	1.35	.45	.12	....	.07	3.49	....	....	....	....	.79	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	6.27
Edgerton	do	1.04	1.79	.09	....	.03	.33	.01	....	....	....	.98	.01	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.33	....	4.61
Gallatin ‖	Grand	1 34	1.51	....	....	T.	.35	....	....	....	....	1.06	.32	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	4.58
Grant City	do	1.37	.48	.16	....	.18	1.45	....	....	....	....	1.02	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4.66
Kansas City***	Missouri	3.46	.56	.02	....	.08	.01	....	....	....	....	1.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.12	....	5.30
Kidder ‖	Grand	2.38	1.72	.02	T.	.03	.28	....	....	....	....	.33	.72	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.26	....	5.74
King City	Missouri	.95	.95	.03	....	.29	1.87	....	....	....	....	1.12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.04	....	5.25
Lexington	do	2.05	2.70	....	....	.08	....	....	....	....	....	.85	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5.68
Liberty	do	3.66	2.76	.09	....	.08	.02	....	....	....	....	2.35	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.18	9.14
Maryville ‖	do	.42	1.29	.09	....	.22	1.22	.16	....	....	....	.57	.34	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	4.31
Oregon	do	1.30	.70	.07	....	.20	2.14	....	....	....	....	.81	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5.22
St. Joseph***	do	1.66	.12	.08	....	.40	1.38	....	....	....	....	.92	T	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.07	....	4.63
Tarkio	do	1.97	.57	.10	....	....	.90	....	....	....	....	.20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.74
Trenton	Grand	1.78	1.88	.14	....	.06	1.31	....	....	....	....	1.84	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.19	....	7.20

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for October, 1927

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	73	67	71	73	82	81	56	65	60	78	58	50	56	67	70	65	66	62	81	73	73	84	87	82	86	86	87	85	84	80	73	72.9
	Minimum	52	62	48	47	46	58	47	38	39	42	44	42	39	35	37	40	40	37	38	44	47	44	47	46	49	49	54	53	53	59	48	45.9
Columbia	Minimum	72	70	71	72	81	85	57	63	62	76	63	50	55	66	78	62	62	59	73	80	71	86	80	81	82	86	87	85	82	74	74	72.4
	Maximum	64	53	49	45	55	53	47	39	46	44	49	43	40	35	49	42	42	35	40	44	44	52	50	48	51	57	60	59	61	61	56	48.8
Fayette	Maximum	74	67	73	75	84	80	65	69	66	78	57	56	61	70	80	67	67	64	79	85	78	86	84	89	88	89	88	86	85	77	76	75.6
	Minimum	50	61	42	39	46	55	44	32	35	38	45	41	35	29	37	38	35	30	31	38	44	43	44	39	42	42	45	49	49	52	49	41.9
Hannibal	Maximum	73	73	72	72	80	85	53	64	53	73	64	52	51	64	76	62	62	58	70	81	70	85	76	80	81	84	86	84	82	76	67	71.3
	Minimum	65	53	51	47	56	53	47	37	42	40	51	45	37	32	48	43	36	37	36	46	46	54	50	46	51	52	57	61	60	61	55	48.2
Jefferson City §§	Maximum	73	68	73	74	80	85	55	61	62	75	69	50	57	60	84	67	63	59	73	83	60	86	85	85	80	84	86	85	82	74	73	72.6
	Minimum	55	63	48	45	45	57	47	41	43	42	44	45	40	35	45	43	41	37	36	38	50	52	53	46	47	53	55	57	59	62	58	47.8
Kirksville	Maximum	71	70	69	72	80	76	59	65	60	75	67	50	56	67	72	73	64	64	79	84	73	85	81	85	88	86	85	83	81	76	69	73.1
	Minimum	54	56	47	42	56	57	43	35	43	40	47	46	38	33	42	40	35	32	32	33	39	52	49	53	51	52	56	57	55	61	45	45.8
Louisiana	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Macon §§	Maximum	73	66	72	74	81	78	56	66	62	76	58	48	56	66	75	65	68	62	74	81	73	85	80	85	86	88	88	85	82	77	70	72.8
	Minimum	53	62	47	42	45	61	44	35	37	40	45	40	37	33	37	39	35	32	35	43	42	49	46	50	49	51	51	59	56	59	47	45.2
Mexico §§	Maximum	72	71	76	75	83	88	56	68	67	76	64	52	55	68	79	63	64	62	75	80	74	86	81	80	85	87	87	89	84	75	73	74.0
	Minimum	55	67	53	49	51	57	50	43	44	47	50	45	45	40	41	46	42	40	41	50	50	56	61	51	55	57	63	65	65	67	60	51.8
St. Louis(1)	Maximum	74	81	73	71	80	86	67	61	62	70	75	55	54	64	77	62	61	59	67	77	71	85	80	75	80	83	85	85	81	78	73	72.6
	Minimum	67	60	55	53	52	64	49	47	47	44	53	45	43	40	47	47	44	40	43	53	53	54	61	56	61	58	61	65	65	60	60	53.1
Unionville	Maximum	74	68	67	71	70	73	57	65	57	73	68	50	54	64	70	62	64	62	72	81	75	84	80	84	88	86	87	82	80	77	70	71.5
	Minimum	55	55	45	42	53	52	42	34	44	40	47	40	38	33	50	35	34	31	40	40	38	50	44	50	54	52	50	57	52	57	40	45.0
Warrenton	Maximum	74	74	74	75	82	87	78	62	62	74	75	58	53	66	78	68	61	60	67	77	77	84	78	75	84	87	90	87	84	76	73	74.2
	Minimum	62	60	50	47	50	61	46	43	45	40	55	46	38	37	45	42	37	33	40	48	45	52	57	54	55	57	58	57	58	60	57	49.5
Southeast Lowlands.																																	
Campbell	Maximum	88	85	80	75	84	89	84	63	75	77	80	75	68	77	74	73	65	62	70	80	76	83	88	77	89	86	87	89	82	81	75	78.6
	Minimum	67	66	61	45	43	55	54	49	39	44	45	48	39	34	37	43	40	35	33	42	46	39	47	47	49	46	44	47	48	48	50	46.1
Caruthersville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Doniphan	Maximum	84	82	78	72	80	86	77	61	73	74	78	74	64	64	70	71	70	73	75	83	76	84	90	84	86	85	84	87	78	78	72	77.2
	Minimum	69	62	58	42	42	57	52	48	37	41	48	41	36	33	36	42	44	35	31	41	45	38	46	46	47	58	46	47	47	48	55	45.7
Jackson	Maximum	83	85	79	74	80	86	88	63	72	72	77	73	63	63	70	66	65	59	62	75	70	81	85	78	86	85	85	82	83	81	75	75.7
	Minimum	68	69	55	46	43	55	44	44	36	37	46	43	37	32	36	43	36	34	29	36	46	37	50	45	52	43	43	45	48	50	55	44.6
Poplar Bluff	Maximum	86	82	85	78	86	91	76	66	82	80	81	75	71	71	77	80	73	70	76	87	84	86	92	81	90	89	91	90	83	82	75	81.2
	Minimum	68	62	58	44	42	49	51	48	36	40	45	46	36	32	35	41	38	33	30	38	39	37	50	46	48	46	43	45	42	47	52	44.1
Sikeston	Maximum	86	83	79	74	81	89	75	65	73	70	79	74	64	65	70	70	63	59	69	78	74	82	87	82	86	86	87	88	84	82	71	76.6
	Minimum	70	60	60	49	41	57	52	50	41	41	48	50	40	36	40	45	39	36	35	41	51	42	52	49	53	51	48	50	51	54	54	47.9
Cairo, Ill.	Maximum	86	83	75	71	78	86	73	62	72	73	78	65	61	62	69	67	61	57	65	75	72	79	84	80	82	82	83	86	81	79	69	74.1
	Minimum	73	62	62	56	55	64	52	51	46	47	54	48	43	43	47	50	45	40	41	46	53	49	57	54	57	54	55	56	60	60	60	52.9
Ozark Plateau.																																	
Arcadia §§	Maximum	77	78	77	75	80	84	55	60	71	71	75	56	60	65	74	65	61	61	74	81	78	86	85	78	83	84	86	87	79	79	72	74.1
	Minimum	59	69	50	43	45	52	52	45	34	34	39	45	36	30	33	41	34	32	29	33	46	39	49	43	45	44	43	47	49	50	55	43.4
Aurora	Maximum	77	70	72	72	79	82	73	63	69	74	75	54	59	70	75	72	64	62	77	78	75	81	82	82	82	84	84	82	81	75	75	74.2
	Minimum	57	58	48	45	51	61	47	41	43	45	52	42	38	38	46	54	44	37	44	50	48	54	58	54	51	56	61	57	58	60	55	50.1
Birchtree	Maximum	76	75	83	80	78	85	78	60	72	70	79	69	62	66	76	69	68	60	76	79	76	85	86	82	84	84	87	86	81	79	79	76.5
	Minimum	68	60	65	60	58	63	45	43	36	39	40	43	36	32	38	46	42	34	32	43	47	63	56	51	52	51	51	52	51	57	56	48.7
Eldon §§	Maximum	74	68	73	74	83	85	55	65	67	78	73	49	59	71	81	66	63	62	78	82	77	85	82	83	85	88	88	87	83	72	75	74.5
	Minimum	53	63	46	44	44	53	48	40	39	39	40	43	38	34	34	44	40	34	34	37	46	46	49	47	47	47	54	56	56	56	57	45.4
Farmington	Maximum	81	80	79	75	76	88	75	59	68	75	75	80	70	67	78	64	60	59	71	76	74	87	85	78	87	85	86	87	82	75	72	75.9
	Minimum	67	60	50	46	46	56	48	46	37	35	43	47	37	31	42	38	37	33	30	41	49	48	57	46	49	48	49	50	53	55	58	46.2
Koshkonong	Maximum	80	74	76	76	80	86	75	62	73	75	78	71	64	64	74	70	64	59	72	80	76	84	87	81	84	85	87	86	88	79	73	76.2
	Minimum	69	61	56	59	48	61	52	47	44	45	54	45	45	38	44	52	42	36	40	52	55	53	57	58	55	57	59	59	58	64	58	52.4
Lebanon §§	Maximum	75	69	74	75	80	87	51	64	70	76	75	51	59	70	79	67	65	63	80	80	76	83	84	84	85	86	87	83	81	68	74	74.2
	Minimum	57	63	45	41	44	49	45	39	38	42	48	40	35	32	34	43	38	29	30	41	41	41	50	44	49	49	54	56	56	59	56	44.8
Mountain Grove §§	Maximum	75	76	77	74	81	87	56	68	73	75	79	58	62	68	77	73	68	68	81	82	81	84	85	86	85	86	90	85	60	74	72	76.3
	Minimum	61	65	42	43	44	54	48	41	39	44	47	42	37	33	39	44	39	31	35	44	47	48	56	47	46	51	58	58	56	55	54	46.7
Neosho	Maximum	81	71	71	74	79	80	80	65	74	78	70	57	62	71	75	80	76	67	77	79	79	78	81	83	82	81	81	80	79	77	71	75.5
	Minimum	69	58	43	39	50	61	48	41	36	41	54	41	32	32	43	41	42	30	37	39	39	42	48	44	44	46	52	49	56	61	54	45.5
Rolla	Maximum	76	73	73	73	80	85	78	64	67	74	74	58	57	68	79	71	63	61	74	78	79	83	81	80	83	84	87	85	81	78	73	74.8
	Minimum	61	60	46	46	54	50	46	45	43	41	57	44	36	35	47	44	40	35	36	45	49	51	56	50	52	54	59	60	57	61	58	49.0
Springfield	Maximum	73	71	72	72	79	83	55	63	69	75	74	54	58	68	76	68	64	63	78	79	76	81	82	83	84	82	83	81	80	67	72	73.1
	Minimum	66	54	48	48	54	55	46	42	47	50	47	42	40	39	48	48	45	39	45	51	54	53	58	58	59	57	61	60	62	59	57	51.4
Southwest Plain.																																	
Amoret	Maximum	70	74	70	74	83	83	69	67	69	79	68	57	74	81	81	69	68	80	78	83	79	86	84	88	87	87	88	82	87	78	75	77.4
	Minimum	58	55	48	56	51	52	40	35	41	43	48	40	32	48	43	38	33	40	41	40	39	38	42	41	44	47	49	50	50	47	45	44.3
Appleton City	Maximum	73	68	72	76	83	81	59	65	70	77	69	55	59	72	80	70	65	65	77	83	77	84	82	88	86	87	85	84	82	76	75	75.0
	Minimum	61	56	48	46	56	59	47	39	43	46	51	41	38	37	47	44	41	37	42	51	48	49	50	49	50	53	57	55	59	59	51	48.7
Centerview	Maximum	71	69	70	72	81	80	67	69	62	76	54	52	56	70	80	70	64	75	72	81	78	85	82	86	87	86	85	83	86	84	68	74.2
	Minimum	62	58	48	44	47	46	37	41	42	44	47	38	39	44	46	41	38	36	42	39	41	46	49	47	48	52	58	62	61	64	47	46.9
Clinton	Maximum	75	70	73	75	85	85	70	67	70	70	68	58	60	77	81	74	68	65	78	85	78	85	84	87	87	88	87	85	83	78	74	76.5
	Minimum	62	56	52	52	58	64	46	40	45	45	49	41	37	37	48	45	40	38	42	50	48	52	50	48	57	54	59	57	60	50	53	49.5
Harrisonville §§	Maximum	70	66	72	74	82	74	56	68	70	76	56	55	61	72	80	66	63	68	81	85	78	86	82	87	87	87	87	87	82	78	74	74.5
	Minimum	53	55	48	44	46	59	45	38	38	45	49	48	35	36	40	41	40	43	37	44	44	45	48	52	54	54	55	52	54	59	46	46.7
Lamar §§	Maximum	78	69	74	78	83	86	55	64	71	78	74	58	63	73	72	72	68	68	78	81	77	82	83	82	88	88	86	84	82	76	77	75.7
	Minimum	58	60	50	45	46	59	49	41	42	47	49	42	37	38	40	40	44	37	39	46	46	49	49	48	48	49	54	56	57	60	56	47.8
Lamonte	Maximum	75	70	73	77	86	82	60	70	66	81	68	53	57	73	80	70	70	67	76	83	77	87	90	91	90	91	88	87	85	79	77	76.7
	Minimum	58	52	46	42	55	54	45	33	43	42	48	40	36	33	47	40	39	36	35	35	43	48	46	46	50	49	58	55	58	64	50	46.0
Marshall	Maximum	73	74	73	70	83	81	63	61	68	80	71	61	72	..	71	71	68	64	71	..	69	73	80	80	86	81	88	87	79	73	81	[b]74.2
	Minimum	56	57	46	46	41	61	44	38	39	46	49	36	34	..	36	41	39	34	36	..	38	40	49	51	49	48	54	58	65	63	53	[b]46.4
Nevada	Maximum	77	69	71	75	82	82	58	63	63	76	70	59	61	73	78	70	66	65	76	82	75	83	82	84	85	86	85	84	82	77	75	74.6
	Minimum	63	56	49	44	56	57	47	48	42	48	51	41	49	40	51	45	41	37	46	59	46	51	51	47	48	51	51	58	60	60	50	49.8
Warsaw	Maximum	78	76	74	77	87	85	79	75	68	79	72	66	59	73	80	76	67	67	78	83	79	85	83	89	88	88	89	86	84	80	78	78.3
	Minimum	63	58	46	41	55	66	39	37	44	41	51	43	39	31	45	43	38	33	36	42	42	41	47	41	43	44	42	54	59	67	55	46.0
Northwest Plateau.																																	
Chillicothe §§	Maximum	74	65	70	75	83	80	57	68	65	78	57	52	57	71	75	65	66	66	78	85	77	88	85	90	89	88	89	86	83	78	73	74.6
	Minimum	51	59	48	41	41	55	44	32	35	40	43	39	37	31	35	38	36	32	32	39	39	39	48	43	43	45	44	52	55	56	43	42.4
Grant City	Maximum	67	68	66	72	76	73	57	69	68	73	67	51	56	61	68	68	63	64	76	82	73	85	81	84	86	83	84	82	78	69	68	71.5
	Minimum	53	51	47	41	57	47	43	40	49	47	46	41	36	43	48	40	40	36	41	51	45	53	49	50	51	53	56	64	58	56	36	47.4
Kansas City	Maximum	72	66	67	74	82	72	55	67	66	76	64	55	56	73	74	63	62	66	77	82	76	85	80	86	85	86	83	80	73	72	72	72.9
	Minimum	61	54	53	52	58	50	44	42	48	51	50	42	41	44	49	43	47	42	50	53	51	59	57	60	64	65	66	62	63	56	49	52.5
Kidder §§	Maximum	72	62	67	71	58	74	55	65	64	73	56	42	52	55	67	61	61	61	73	80	72	84	79	84	84	85	87	82	79	73	67	70.8
	Minimum	48	54	46	42	43	43	42	36	37	41	41	37	35	34	36	37	37	34	34	42	40	41	48	44	50	52	52	52	53	55	40	42.8
Lexington	Maximum	72	68	70	75	84	77	58	68	67	78	70	55	59	72	77	68	66	68	79	84	77	87	84	88	88	88	87	85	82	77	75	75.3
	Minimum	57	56	49	44	59	56	47	38	45	46	50	42	39	39	53	42	42	37	44	50	44	56	51	51	54	52	61	56	60	64	47	49.4
Maryville	Maximum	67	67	65	74	78	71	61	72	65	75	68	56	58	70	70	72	60	68	78	85	77	88	84	90	89	87	87	84	80	73	69	73.8
	Minimum	54	53	47	41	58	49	43	38	39	44	47	39	35	39	50	40	41	38	39	48	40	51	49	49	53	55	60	58	61	59	40	47.0
Oregon	Maximum	68	67	67	76	79	67	64	72	68	77	68	68	60	75	75	72	72	70	81	88	78	88	85	88	90	89	89	86	81	74	74	76.0
	Minimum	55	54	50	46	58	50	42	40	39	49	48	40	36	41	51	39	41	40	43	49	44	55	50	54	55	58	65	61	63	61	43	49.0
St. Joseph	Maximum	73	66	66	75	82	63	60	68	62	75	63	55	55	72	71	68	65	67	76	84	77	87	83	86	87	86	88	85	81	71	68	73.0
	Minimum	57	54	51	45	60	48	45	39	43	49	48	42	39	40	48	40	43	41	43	47	46	57	50	54	52	56	67	65	65	52	43	49.3
Trenton	Maximum	70	68	67	73	76	74	55	65	67	73	65	50	53	67	69	64	64	62	71	80	78	84	83	86	83	76	86	82	78	72	69	71.1
	Minimum	56	57	50	45	55	55	45	40	48	44	50	41	39	38	44	40	46	39	40	44	45	52	45	47	47	45	55	56	56	48	42	46.9

[a], [b], [c], etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 11-21-27-915.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXXI. COLUMBIA, MO., NOVEMBER, 1927. No. 11.

GENERAL SUMMARY.

November, 1927, in Missouri, averaged warm, cloudy, and wet, except as to the last element in the northwestern plateau. In its leading temperature features November was much like October, especially as to the unusual and persistent warmth during the last ten days of both months. The distribution of precipitation and cloudiness, however, was decidedly different, most of October being sunshiny and fine.

November opened very warm but a cold spell followed immediately, resulting in the first killing frost and general freeze on the 6th, and about 20 days later than the average. After the first week and up to about 19th the weather was variable but mainly cool. The last nine or ten days were warm.

The rainy spells were about a week apart, the most notable probably being on the 8th, 14–15th, and 29–30th. While November precipitation was somewhat more generous than needful there was no harm done. The first general snow of the season prevailed on the 30th. From about Pettis and Saline east to Warren thence to Marion County total depths ranged from 3 to about 5 inches. Over the remainder of the State the falls were light, most of it melting about as fast as it fell or soon after falling.

The month's weather was not markedly unfavorable for outdoor pursuits, though most work was temporarily stopped or interfered with by rather too much rain and excess cloudiness. There were some adverse effects on the heavy clothing lines of business, as indicated by reduced sales. The wheat crop is well rooted and enters the winter in satisfactory condition.

TEMPERATURE.

The mean temperature for the State, as shown by the records of 67 stations, was 46.8°, or 2.3° higher than normal. The excess departure from the usual November normal was quite marked and uniform in all parts of the State, save in the northwestern section where it was less than 1°. Except on the 1st, 10th, and 14th, temperatures were generally below normal the first 20 days, but the last 10 days were unusually mild. On the warmest days the maxima ranged well up into the 80's generally. The coolest spells prevailed on the 6th, 7th, and 18th, and the minima reached 32° or lower on an average of 13 days. There was no zero cold.

PRECIPITATION.

The average precipitation for the State, 99 stations reporting, was 3.55 inches or about 1.20 inches, more than the 56 years' average. It was the wettest November since 1922, except in the northwestern section. The greatest monthly amount was 7.89 inches, at Rolla. The greatest 24-hour amount was 3.41 inches, at Rolla on the 29th. Precipitation was more or less general only on the 2d, 7th, 15th, 23d, and 29th.

A more or less general snowstorm prevailed on the 30th. The average depth for the State was 0.9 inch. Over the central and east-central counties depths ranged from 3 to 5 inches.

MISCELLANEOUS PHENOMENA.

Fogs, dense.—8th, 9th, 10th, 23d, and 28th.
Frost, first general killing.—On the 6th.
Halos, lunar.—4th, 5th. Solar.—2d, 4th, 14th, and 24th.
Sleet, light, without damage.—5th, 7th, 16th, and 30th.
Thunderstorms —1st, 2d, 7th, 11th, 14th, 15th, 23d, 27th, 28th, 29th, and 30th.

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SPECIAL STORM NOTES.

Nov. 1—General thunderstorms, accompanied by squalls and local hail, caused some damage. At Columbia, Boone County, the hail was heavy and large, especially over the western and northern parts of the city. The damage was confined to window glass breakage, roofs of houses, and automobile tops. One floral company had 1,900 glass panes broken. The breakage also was considerable to other business concerns as well as homes. Wire service companies as well as some small out buildings were damaged by the wind. The loss by hail was estimated at $6,000; by wind, $1,000. During the same afternoon hail caused some damage in the southern part of Webster County; damage about $800.

Strong winds, reaching nearly gale force at times, were quite general on the 10th, 11th, and 30th, and locally on the 7th, 16th, 21st, and 22d. There was no material damage.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity. Miles per hour.	Direction.	Date.
Columbia	30.07	83	69	118	39	7,069	9.8	34	w	11
Hannibal	30.06	79	..	...	..	7,833	10.9	38	sw.	28
Kansas City	30.07	81	64	125	41	8,390	11.7	39	nw.	11
St. Joseph	30.06	80	67	100	33	6,359	8.8	39	nw.	11
St. Louis	30.09	81	75	123	41	11,552	16.0	53	sw.	1
Springfield	30.05	84	69	96	31	9,208	12.8	39	w	1
Cairo, Ill	30.14	83	70	...	..	8,714	12.1	39	n.	30
Keokuk, Iowa	30.08	80	68	98	32	6,509	9.0	35	nw.	1

COMPARATIVE DATA FOR NOVEMBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	41 6	−2.0	87	15	3.26	+0.94	....	....	11	....	....	....
1889	39.9	−3.7	73	8	3.43	+1.11	....	....	7	....	....	....
1890	46.5	+2.9	80	20	2.31	−0.01	....	....	5	....	....	....
1891	39.6	−4.0	82	− 2	3.60	+1.28	....	....	5	....	....	....
1892	40.1	−3.5	79	9	2.60	+0.28	....	1.0	6	11	7	12
1893	40.9	−2.7	79	− 1	1.54	−0.73	4.86	0.3	4	14	9	7
1894	41.0	−2.6	80	3	1.58	−0.74	2.20	T.	4	15	9	6
1895	41.6	−2.0	82	2	3.37	+1.05	2.98	3.2	8	10	7	13
1896	42.3	−1.3	82	5	2.18	−0.14	4.00	0.2	6	11	7	12
1897	43.4	−0.2	82	− 3	2.40	+0.08	3.39	T.	6	13	8	9
1898	39.9	−3.7	79	− 8	2.28	−0.04	2.75	2.3	6	14	8	8
1899	49.5	+5.9	82	16	1.90	−0.42	2.66	0.2	7	11	9	10
1900	43.7	+0.1	84	7	2.58	+0.26	4.55	0.2	6	15	7	8
1901	43.6	0.0	84	9	1.38	−0.94	1.90	0.3	4	17	7	6
1902	50.1	+6.5	85	18	3.62	+1.20	2.14	0.4	9	8	9	13
1903	40.9	−2.7	79	2	1.24	−1.08	2.44	1.1	5	13	8	9
1904	46.3	+2.7	83	11	0.22	−2.10	0.68	T.	2	21	5	4
1905	45.8	+2.2	83	2	1.94	−0.38	2.49	T.	6	18	6	6
1906	42.5	−1.1	88	− 3	2.60	+0.28	3.60	5.0	8	12	6	12
1907	43.8	+0.2	88	5	2.52	+0.20	3.00	T.	4	19	4	7
1908	47.6	+4.0	87	9	4.14	−1.82	4.00	0.2	8	15	7	8
1909	53.6	+10.0	87	11	4 43	+2.11	6.18	0.4	8	12	7	11
1910	42.0	−1.6	83	11	0.38	−1.94	0.70	0.1	3	15	8	7
1911	39.1	−4.5	93	− 3	2.55	+0.23	2.15	1.1	7	13	6	11
1912	45.9	+2.3	88	12	1.52	−0.80	2.37	0.1	3	20	5	5
1913	51.7	+7.4	80	11	2.73	+0.35	2.50	T.	7	10	8	12
1914	48.6	+4.0	89	2	0.65	−1.84	1.90	0.1	3	19	6	5
1915	49.5	+4.9	87	12	2.76	+0.33	2.62	0.1	5	16	7	7
1916	49.6	+5.9	85	3	2.49	+0.14	2.53	0.1	4	19	4	7
1917	46.1	+1.5	80	8	1.05	−1.46	3.26	T.	3	14	5	11
1918	44.9	+0.5	85	12	3.18	+0.79	4.60	1.2	6	15	4	11
1919	42.2	−2.2	78	2	3.62	+1.40	3.36	1.0	6	15	5	10
1920	40.9	−3.5	82	6	1.21	−1.09	1.89	T.	6	12	6	12
1921	45.6	+1 2	84	10	2.82	+0.40	4.29	0.4	5	13	7	10
1922	47.8	+2.9	84	15	3 82	+1.45	3.40	T.	7	16	6	8
1923	45.1	+0.6	79	14	2.15	−0.20	2.30	3.0	6	15	6	9
1924	46.7	+2.2	88	4	1.72	−0.63	1.68	0.5	4	15	8	7
1925	42.8	−1.7	80	− 2	2.99	+0.64	3.20	2.0	6	16	6	8
1926	39.6	−4.9	78	0	2.98	+0.63	2.25	4.3	7	11	7	12
1927	46.8	+2.3	89	12	3.55	+1.20	3.41	0.9	7	6	9	15

Climatological Data for November, 1927

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	47	43.8	+ 2.3	78	1	19	18	39	2.30	+0.33	0.85	0	12	11	1	18	se.	O. K. Benecke
Clifton Hill	Randolph	731	27	44.8	+ 1.0	78	1	16	18	38	1.47	−0.44	0.45	2.0	8	5	4	21	......	Dr. A. J. Bradsher
Columbia	Boone	748	36	46.0	+ 2.7	82	1	17	30	43	4.29	+1.98	1.09	4.5	9	5	7	18	s.	U. S. Weather Bureau
Downing	Schuyler	876	5	42.6	......	72	1	15	18	35	2.22	+0.59	0.85	T.	7	8	6	16	sw.	James Taylor
Fayette	Howard	661	46	45.4	+ 3.1	82	1	17	6†	39	2.91	+0.91	0.70	5.5	8	..	..	..	......	J. D. Settle
Fulton	Callaway	818	38	47.0	+ 2.5	79	2	21	6†	48	5.35	+3.10	1.72	4.0	11	4	14	12	......	Chamber of Commerce
Gorin	Scotland	700	39	....	......	..	..	..	..	..	1.56	−0.40	0.66	0	9	3	3	24	sw.	J. W. Pulliam
Hannibal	Marion	534	34	45.4	+ 3.3	81	1	20	30	41	3.15	+1.20	1.19	4.5	13	5	7	18	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	47.0	+ 2.9	85	29	21	18	40	6.27	+4.00	1.45	T.	10	11	4	15	s.	Miss Emma Swift
Kirksville	Adair	969	37	43.6^{a}	+ 3.1	72	10	15	18	42	1.52	−0.24	0.70	T.	8	5^{a}	1^{a}	23^{a}	nw.	Prof. J. S. Stokes
Louisiana ††	Pike	469	32	48.8	+ 4.6	81	1	17	6	42	5.21	+2.93	1.10	2.0	11	4	8	18	w.	J. T. Farrell
Macon	Macon	875	27	43.4	0.0	79	1	15	18	39	1.00	−0.93	0.36	0	5	11	7	12	se.	W. C. Brown
Mexico	Audrain	800	37	48.1	+ 5.1	80	1	20	18	40	4.30	+1.98	1.25	0	9	14	2	14	w	Mrs. Abbie Snoddy
Monroe City	Monroe	748	6	....	......	..	..	..	..	..	3.30	......	1.40	3.0	8	6	10	14	nw.	J. S. Conway
St. Charles	St. Charles	456	38	49.2	+ 3.7	81	1	22	6†	41	4.40	+1.86	1.56	3.0	7	6	12	12	s.	L. C. Saeger
St. Louis (1)	St. Louis City	568	52	48.0	+ 2.6	80	1	27	18	37	5.56	+2.68	2.31	0.8	11	8	7	15	sw.	U. S. Weather Bureau
St. Louis (2)	....do	578	14	47.3	+ 0.8	80	1	26	18	37	5.64	+3.33	2.24	1.8	10	6	9	15	s.	St. Louis University
Shelbina	Shelby	779	33	....	......	..	..	..	..	..	2.60	+0.52	0.86	1.0	9	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	28	44.4	+ 0.6	80	1	12	7	40	1.77	−0.16	1.00	1.5	5	9	6	15	s.	Frank Hall
Unionville	Putnam	1,062	33	41.6	+ 1.4	70	10†	12	18	36	1.15	−0.67	0.90	T.	4	6	4	20	n.	Geo. W. Davis
Warrenton	Warren	816	44	49.0	+ 6.1	89	29	20	18	45	5.70	+3.11	1.80	4.0	10	8	9	13	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	614	54	43.8	+ 2.7	78	1	19	18	39	3.61	+1.76	1.27	T.	11	3	7	20	nw.	U. S Weather Bureau
Section means and	extremes	.....	..	45.7	+ 2.7	89	29	12	7†	48	3.42	+1.31	2.24	1.7	9	7	6	17	s	
Southeast Lowlands.																				
Benton	Scott	340	1	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	E. R. Tirmenstein
Campbell	Dunklin	314	1	52.6	......	82	1	25	6†	42	3.88	......	1.48	0	6	3	12	15	n.	Jeff. King
Caruthersville	Pemiscot	265	30	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	John T. Markey
Doniphan	Ripley	344	22	52.6	+ 5.0	84	1	26	6	42	3.91	+0.79	1.68	0	7	2	19	9	sw.	W.W. Martin
Jackson	Cape Girardeau	428	35	50.2	+ 3.5	79	1	23	6	49	5.63	+2.50	2.49	T.	11	3	5	22	n.	John G. Putz
Marble Hill	Bollinger	470	31	51.2	+ 6.8	82	1	24	20	48	6.25	+3.08	2.40	0	8	3	8	19	n.	R.A. DeWitt
Morehouse	New Madrid	289	25	....	......	..	..	..	..	..	5.16	+1.51	2.23	0	10	5	10	15	n.	John A. Spence
Parma	New Madrid	281	9	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	H. W. Kendall
Patton	Bollinger	605	17	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	....	S. P. Presnell
Poplar Bluff	Butler	339	22	51.4	+ 4.0	82	1	24	6	44	4.54	+1.28	1.78	0	6	9	8	13	s.	J. H. Wolpers
Sikeston	Scott.	318	21	49.6^{a}	+ 2.2	81	1	26	6	36	5.94	+2.29	2.87	0	9	8	10	12	n.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	358	51	51.9	+ 4.6	79	1	29	17	37	4.52	+0.50	2.34	T.	10	3	7	20	s.	U. S. Weather Bureau
Section means and	extremes	....	..	51.4	+ 4.4	84	1	23	6	49	4.99	+1.71	2.87	0	8	4	10	16	n.	
Ozark Plateau.																				
Arcadia	Iron	926	45	46.1	+ 2.1	79	1	22	6	43	4.58	+0.96	1.50	T.	8	18	0	12	nw.	Arcadia College
Aurora	Lawrence	1,370	36	50.2	+ 4.2	78	1†	20	18	38	5.70	+2.91	2.42	T.	6	7	11	12	se.	W. T. Troughton
Birchtree (near)	Shannon	1,000	31	51.3	+ 4.8	81	1	23	18	37	5.54	+2.65	1.60	0	7	5	4	21	sw.	V. H. Kirkendall
Bolivar	Polk	1,071	32	50.0^{b}	+ 3.2	81	1	21	18	44	3.96	+1.43	1.77	0.5	8	5	14	11	s.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	27	....	......	83	1	..	..	..	5.55	+2.51	1.67	T.	10	14	2	14	e.	H. E. Dean
Eldon	Miller	934	30	48.3^{c}	+ 3.1	81	1	21	20	41	6.49	+4.28	1.92	0	11	2^{d}	10^{d}	14^{d}	sw	E. H. Shepherd
Farmington	St. Francois	918	15	48.4	+ 4.1	77	1†	22	6†	38	5.90	+1.94	1.88	0.5	9	4	12	14	sw.	Robert Forsyth
Goodland	Iron	1,000	32	48.6	+ 4.0	83	1	19	6	43	5.45	+2.56	1.88	0	6	4	7	19	s.	F. M Adams
Greenville	Wayne	381	4	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	....	Wm. P. Owens
Hailey	Barry	1,350	1	....	......	..	..	..	..	..	3.22	......	2.00	0	3	18	2	10	w.	A. W. Madison
Koshkonong	Oregon	958	25	51.8	+ 2.4	80	1	23	18	35	3.89	+0.87	1.98	0	6	4	7	19	sw.	R. M. Hitt
Lebanon	Laclede	1,265	38	46.0	0.0	82	1	15	18	43	7.28	+4.74	2.25	T.	8	7	8	15	se.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	20	49.7	+ 2.0	78	29	23	18	36	4.42	+2.21	1.76	1.0	5	6	12	12	sw.	C. S. Crow
Mountain Grove (near)	Wright	1,463	25	47.8	+ 1.2	84	1	19	18	42	6.04	+3.61	1.94	0	7	4	18	8	se.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	50.7	+ 3.5	74	23†	18	18	44	4.37	+1.31	1.70	T.	8	11	5	14	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	26	49.3	+ 4.4	80	1	23	18	44	7.89	+5.58	3.41	1.0	6	6	14	10	s.	Prof. Elmo G. Harris
Salem (near)	Dent	1,173	22	49.0	+ 2.2	80	1	22	6	41	5.90	+3.59	1.93	T.	9	5	10	15	nw.	A. C. Leech
Seligman	Barry	1,542	24	50.6	+ 3.4	79	1	19	17	40	4.35	+1.99	1.86	T.	5	5	15	10	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,642	20	48.4	+ 2.3	79	1†	13	18	41	3.62	+1.29	1.48	T.	7	7	7	16	s	Ira H. Hailey
Springfield	Greene	1,324	38	47.9	+ 2.2	79	1	22	18	39	5.44	+2.80	1.72	0.2	9	5	10	15	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	49.1	+ 2.9	84	1	13	18	44	5.24	+2.62	3.41	0.2	7	7	9	14	sw.	
Southwest Plain.																				
Amoret	Bates	831	19	48.1	+ 2.6	82	1	20	18	51	1.82	+0.16	1.43	2.0	3	11	3	16	sw.	Andrew Rood
Appleton City	St. Clair	853	32	47.4	+ 1.3	73	10†	22	18	37	2.82	+0.69	1.10	1.5	8	2	15	13	sw.	W. G Bigelow
Centerview	Johnson	872	39	46.0	+ 1.1	72	10†	18	18	33	2.77	+0.99	1.25	T.	8	8^{a}	11^{a}	10^{a}	sw.	E. A. Markey
Clinton	Henry	765	33	48.7	+ 1.4	80	1	20	18	38	2.69	+0.81	1.05	3.0	7	4	15	11	sw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	49	43.8	+ 1.4	78	1	18	18	38	1.65	−0.30	1.29	0	6	3	2	25	nw.	John H. Patterson
Lamar	Barton	980	39	48.1	+ 1.5	80	1	22	18	39	3.36	+1.12	1.38	0	5	7	9	14	sw.	Jesse A. Mann
Lamonte	Pettis	867	25	45.8	+ 1.4	81	1	18	18	40	3.28	+1.38	1.20	6.0	9	8	16	6	se.	J. E. Wheeler
Marshall	Saline	779	37	44.6^{a}	− 1.0	73	1†	18	19	42	1.11	−0.97	0.37	3.0	8	6^{a}	10^{a}	13^{a}	nw.	Dr. W. H. Black
Nevada	Vernon	862	33	48.6	+ 4.2	78	1	21	18	36	2.34	+0.46	1.44	0	2	6	11	13	s.	George A. Kaupp
Warsaw	Benton	687	26	50.8	+ 3.3	81	1	20	18	43	4.46	+2.05	1.33	3.0	5	1	16	13	e.	Everett Martin
Section means and	extremes	.....	..	47.2	+ 1.7	82	1	18	18	51	2.59	+0.60	1.44	1.8	6	6	11	13	sw.	
Northwest Plateau.																				
Bethany	Harrison	916	34	42.9	0.0	77	10	15	18	40	0.65	−1.12	0.40	T.	3	5	8	17	nw.	M. H. Moulton
Chillicothe	Livingston	779	17	41.7	− 0.9	77	13	17	18†	46	1.39	−0.94	1.18	0.4	7	6	6	18	nw.	Wm. J. Olenhouse
Conception	Nodaway	980	37	42.0	+ 0.6	82	10	16	18	42	1.37	+0.01	1.31	T.	2	3	7	20	nw.	Fr. Adelhelm Hess
Edgerton	Platte	856	6	43.9^{d}	......	79	10	17	18	39	0.75	−0.72	0.55	0.2	7	10	5	15	n.	Fred L Stiff
Grant City	Worth	1,134	22	41.9	− 0.5	79	10	15	18	43	0.28	−1.33	0.24	T	2	5	11	14	sw.	W. P. Spillman
Kansas City	Jackson	963	37	45.2	+ 1.5	76	10	21	18	37	1.13	−0.72	0.67	1.0	6	4	9	17	s.	U. S. Weather Bureau
Kidder	Caldwell	1,020	33	40.0	− 2.4	76	10	15	18	43	0.70	−1.14	0.45	0.2	4	7	5	18	nw.	Linn Terry
King City	Gentry	1,095	1	....	......	..	..	..	..	..	....	......	....	....	..	..	..	..	......	D. B. Oliver
Lexington	Lafayette	688	41	46.4	+ 2.4	76	1†	19	18	41	1.46	−0.39	0.83	2.0	9	6	12	12	n.	Miss Carrie Loomis
Liberty	Clay	859	36	45.4	+ 1.4	78	10	20	18	41	1.80	+0.02	1.40	0	5	10	6	14	n.	Pryor Carpenter
Maryville	Nodaway	1,169	36	42.0	+ 3.0	74	11	17	18	44	0.91	−0.74	0.85	T.	3	12	2	16	n.	J. R. Brink
Oregon	Holt	1,048	70	44.0	+ 3.7	83	10	18	18	40	0.42	−1.27	0.32	T	3	9	7	14	nw.	Mina Wright
St. Joseph	Buchanan	967	18	43.3	− 0.3	82	10	20	18	40	0.58	−0.86	0.36	0.5	6	5	8	17	nw.	U. S. Weather Bureau
Tarkio	Atchison	916	23	40.0	− 0.6	82	10	14	18	38	0.06	−1.39	0.04	1.0	2	7	4	19	se.	Albert Volker
Trenton	Grundy	822	30	43.0	+ 0.6	73	10	17	18	36	1.19	−0.61	0.84	T	7	3	11	16	s.	W. H. Estes
Section means and	extremes	.....	..	43.0	+ 0.6	83	10	14	18	46	0.91	−0.80	1.40	0.4	5	7	7	16	nw.	
State means and	extremes	.....	..	46.8	+ 2.3	89	29	12	7†	51	3.55	+1.20	3.41	0.9	7	6	9	15	sw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, ^{a}, ^{b}, ^{c}, appearing in the table indicate number of days missing; for example, ^{b}, represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson.

Daily Precipitation for November, 1927

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
Northeast Plain.																																	
Boonville‖	Missouri	....	.11	....	....	....	....	....	.04	....	....	....	.07	....	T.	.72	....	....	....	....	....	....	....	.40	.09	....	....	.11	.22	....	.20	....	1.96
Brunswick‖	Grand	....	.08	....	.05	....	....	....	.07	....	....	....	.05	....	.17	.85	....	....	....	....	....	.03	....	.35	.05	....	....	.30	.20	....	.10	....	2.30
Clifton Hill	Chariton	.04	....	....	....	....	....	.03	....	....	....	....	....	....	....	.45	....	T.	....	....	....	....	....	.40	.04	....	....	.20	.16	....	.15	....	1.47
Columbia***	Missouri	.47	....	T.	....	....	....	.09	....	....	T.	.08	....	T.	.18	.83	....	T.	....	....	....	....	....	.82	....	....	....	.49	.24	T.	1.09	....	4.29
Downing	Mississippi	T.	....	....	....	....	....	.04	.03	....	....	....	....	....	.37	.85	....	T.	....	....	....	....	....	.60	.05	....	T.	....	.28	....	....	....	2.22
Fayette‖‖	Missouri	....	....	....	....	....	....	.03	....	....	....	.27	....	.07	.70	....	....	....	....	....	....	....	....	.57	....	....	....	.27	.57	....	.43	....	2.91
Fulton	do	....	.42	....	.01	....	....	.05	.18	....	....	....	.15	....	....	1.72	....	....	....	....	....	....	....	.59	.28	....	....	.11	.35	....	1.49	....	5.35
Gorin	Mississippi	.66	....	....	....	....	....	.03	.05	....	.05	....	....	....	.15	.34	....	....	....	....	....	.01	....	.11	....	....	T.	....	.16	....	....	....	1.56
Hannibal***	do	.47	....	....	....	....	....	.01	.01	.01	....	.06	....	.01	.12	1.07	....	T.	....	....	T	....	....	.17	....	....	....	.61	.13	.02	.46	....	3.15
Hermann‖	Missouri	.15	.16	....	....	....	....	.06	.54	....	....	....	.14	....	....	1.23	....	....	....	....	....	....	....	.52	.73	....	....	....	.46	.02	2.00	....	6.01
Jefferson City‖	do	....	.14	....	....	....	....	.25	.95	....	....	....	.25	....	....	1.45	....	....	....	....	....	....	....	.95	.25	....	....	.35	.70	..	.98	....	6.27
Kirksville	Mississippi	..	.08	....	....	....	....	.02	....	....	.05	.01	....	....	....	.70	....	T.	....	....	....	.04	....	.10	....	....	....	....	.52	....	T.	....	1.52
Louisiana	do	....	.38	....	....	....	....	.01	....	....	.03	.87	....	....	T.	1.10	T.	T.	....	....	....	....	T.	.85	.12	....	T.	.35	.65	.01	.84	....	5.21
Macon‖	Chariton	....	.04	....	....	....	....	....	....	....	....	....	....	....	....	.36	....	....	....	....	....	....	....	....	.04	....	....	.21	.35	....	....	....	1.00
Mexico‖	Mississippi	....	.42	....	....	....	....	T	.03	....	T.	T.	.05	....	....	1.25	....	T.	....	....	....	....	....	.65	.50	....	....	.20	.65	....	.55	....	4.30
Milan‖	Grand	....	....	....	....	....	.05	....	....	....	.08	....	....	....	....	1.05	....	....	....	....	....	....	....	....	....	....	.05	....	.22	....	....	....	1.45
Monroe City	Mississippi	....	.43	....	....	....	....	T.	....	....	....	T.	....	....	.11	1.40	....	T.	....	....	....	....	....	.19	.03	....	....	.16	.52	....	.46	....	3.30
Pacific‖	Meramec	....	.70	....	....	....	....	.09	1.80	T.	....	....	.15	....	....	.77	....	....	....	....	....	....	....	.29	.23	....	T.	....	.32	....	1.52	....	5.87
St. Charles	Missouri	....	.54	....	....	....	....	.35	T.	....	....	.75	....	....	....	.67	....	....	T.	....	....	....	....	T.	.25	....	....	.28	....	....	1.56	....	4.40
St. Louis (1)***	Mississippi	.57	.02	....	....	....	....	1.20	.01	....	....	.20	....	....	....	.54	....	T.	....	....	....	....	....	.37	....	....	....	.29	.05	.40	1.91	....	5.56
St. Louis (2)*	do	.61	.01	....	....	....	....	1.01	T.	....	T.	.20	....	....	....	.56	....	T.	....	....	....	....	....	.37	....	....	....	.21	.12	.31	2.24	....	5.64
Shelbina‖‖	do	....	.55	....	....	....	....	....	.03	....	....	....	.11	....	....	.86	....	....	....	....	....	....	....	.04	.22	....	....	.16	.53	....	.10	....	2.60
Steffenville	do	.32	....	....	....	....	....	T.	.05	....	T.	T.	....	....	T.	1.00	....	T.	....	T.	....	....	....	.25	....	....	T.	T.	T.	....	.15	....	1.77
Union‖	Meramec	.24	.62	....	....	....	....	.15	1.83	....	.02	....	.22	....	....	.92	....	....	....	....	....	....	....	.16	.32	....	....	....	.20	....	1.85	....	6.53
Unionville	Chariton	.10	....	....	....	....	....	T.	....	....	....	....	....	....	....	.90	....	T.	....	....	T.	....	....	.05	....	....	....	....	.10	....	....	....	1.15
Warrenton	Mississippi	....	.12	....	....	....	....	.30	.14	....	....	.15	....	....	....	1.14	....	....	T.	....	....	....	....	1.10	.43	....	....	.12	.40	....	1.80	....	5.70
Keokuk, Ia.***	do	1.18	....	....	....	....	....	.01	.01	T.	.02	.20	....	T.	.96	.48	....	T	....	....	T.	....	T.	.13	....	....	....	.07	.54	T	.01	....	3.61
Southeast Lowlands																																	
Benton	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Campbell‖	St. Francis	....	....	....	....	....	....	.50	.91	....	....	....	....	....	....	1,48	.65	....	....	....	....	....	....	....	.09	....	....	....	....	....	.25	....	3.88
Cape Girardeau‖	Mississippi	....	.25	....	....	....	....	.67	1.60	....	.02	....	.55	....	....	.27	.96	.11	....	....	....	....	....	....	.12	....	....	....	.23	....	.05	....	4.83
Caruthersville‖	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Dexter‖	St. Francis	....	.18	....	....	T.	....	....	2.00	....	....	.56	....	....	....	1.27	1.03	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	5.04
Doniphan	Black	....	.32	....	....	....	....	.15	1.58	....	....	.05	....	....	....	1.68	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	.08	....	3.91
Jackson	Mississippi	....	.42	....	....	....	....	2.49	.51	....	.02	....	.15	....	....	1.17	.12	....	....	....	....	....	....	.17	.01	....	....	.11	....	....	.46	....	5.63
Marble Hill	Mississippi	....	.40	....	....	....	....	2.40	.60	....	....	....	.20	....	....	1.95	.20	....	....	....	....	....	....	....	....	....	....	.10	....	....	.40	....	6.25
Morehouse	do	....	.08	....	....	.01	....	.23	2.23	....	.03	....	.72	....	....	.85	.82	....	....	....	....	....	....	....	.07	....	....	....	....	....	.12	....	5.16
New Madrid‖	do	....	.27	....	....	....	....	.10	.65	....	.03	....	.09	....	....	.27	1.80	.51	....	....	....	....	....	....	.07	....	....	....	....	.01	.02	....	3.82
Parma	St. Francis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Patton	Mississippi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Poplar Bluff	Black	.23	....	....	....	....	.05	1.78	....	....	....	.85	....	....	.93	.70	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	4.54
Sikeston‖	Mississippi	....	.06	....	....	....	....	.10	2.87	T.	.05	T.	.64	....	....	.22	1.70	.26	....	....	....	....	....	....	.04	....	....	....	....	....	....	....	5.94
Cairo, Ill.***	do	....	.09	....	....	.02	....	1.20	1.14	T.	.01	.24	....	....	....	1.13	.56	....	....	....	....	....	....	T.	.02	....	....	....	T.	T.	.11	....	4.52
Ozark Plateau.																																	
Arcadia‖	St. Francis	.07	.27	....	....	T.	....	.93	1.50	....	....	....	....	....	....	.96	.30	....	....	....	....	....	....	....	.11	....	....	....	....	T.	.44	....	4.58
Aurora	Neosho	....	.29	....	....	....	....	1.30	.38	....	....	T.	....	....	....	2.42	....	....	....	....	....	....	....	.11	....	....	....	....	....	....	1.20	....	5.70
Birchtree (near)	Black	.41	.48	....	....	....	....	1.60	1.45	....	....	.49	....	....	....	.86	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.25	....	5.54
Bolivar	Osage	.49	T.	....	....	....	....	1.51	.12	.03	T.	T.	....	....	....	....	.01	....	T	....	....	....	....	T.	.02	T.	....	.01	....	....	1.77	....	3.96
Caplinger Mills	Osage	.04	....	....	....	....	....	.61	T.	T.	T.	....	.05	....	....	T.	.99	....	T.	T.	T.	....	....	....	.04	....	....	T.	....	....	1.28	....	3.01
Dean	Neosho	.06	.62	....	....	....	....	1.67	.02	.92	.32	....	....	....	....	1.20	....	....	....	....	....	....	....	.06	....	.09	....	....	....	....	.59	....	5.55
Eldon‖‖	Missouri	....	....	....	....	....	....	.38	1.92	....	.03	....	.27	....	....	1.60	....	....	....	....	....	....	....	.55	.20	....	.05	.17	.05	....	1.27	....	6.49
Farmington	St. Francis	....	.44	....	....	T.	....	1.88	.45	T.	.02	.32	....	....	....	1.26	....	....	....	....	....	....	....	.06	.05	....	....	....	....	....	1.42	....	5.90
Fredericktown‖‖	do	....	.72	....	....	T.	.16	.90	1.72	....	....	....	.45	....	....	1.20	.80	....	....	....	....	....	.02	T.	....	....	....	....	....	....	.35	....	6.32
Galena‖‖	White	....	.65	....	....	....	....	....	1.35	....	....	....	.20	....	....	2.00	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.45	....	4.65
Goodland	Black	....	.49	....	....	....	....	1.41	.15	....	....	.42	....	....	....	1.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.88	....	5.45
Greenville	St. Francis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Hailey	White	.80	....	....	....	....	....	....	....	....	....	....	....	....	....	2.00	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.42	....	3.22
Koshkonong	Black	....	.32	....	....	....	....	.77	1.98	....	.02	....	....	....	....	.75	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.05	....	3.89
Lebanon‖	Osage	....	.90	....	....	T.	....	.63	.93	T.	.32	....	.25	....	....	2.25	....	....	....	....	....	....	....	....	.20	....	....	....	T.	....	1.80	....	7.28
Lockwood	do	.08	....	....	....	....	....	1.10	....	.20	....	....	....	....	....	1.28	....	T.	....	....	....	....	....	T.	....	....	....	....	....	....	1.76	....	4.42
Mountain Grove‖	White	....	.72	....	....	....	....	.39	1.94	....	....	....	.32	....	....	1.55	....	....	....	....	....	....	....	....	.05	....	....	....	....	....	1.07	....	6.04
Neosho	Neosho	.30	.27	....	T.	....	....	.83	.08	.15	T.	....	....	....	....	1.70	....	....	....	....	....	....	....	.09	....	....	....	....	....	....	.95	....	4.37
Owensville‖	Gasconade	.25	....	.15	....	....	....	.35	2.00	....	....	....	.10	....	....	1.44	....	....	....	....	....	....	....	.40	.40	....	....	....	....	....	2.00	....	7.09
Rolla‖	Meramec	1.06	....	....	T.	T.	....	1.64	....	....	....	.30	....	....	1.04	....	....	....	....	....	....	....	....	T.	....	....	T.	T.	....	3.41	.44	....	7.89
Salem (near)	do	....	1.21	....	....	....	....	....	1.75	....	....	....	....	....	....	1.05	....	....	....	....	....	....	....	....	T.	....	....	T.	....	....	1.15	....	5.16
Seligman	Neosho	....	....	....	....	....	....	1.59	.04	....	....	.18	....	....	....	1.86	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.68	....	4.35
Seymour (near)	White	....	.24	....	....	....	....	1.14	.21	T.	....	.23	....	....	....	1.48	....	....	....	....	....	....	....	T.	.22	....	....	T.	T.	....	.10	....	3.62
Springfield***	do	1.28	....	....	T.	....	....	.63	.22	T.	....	.03	....	....	.23	1.49	T.	T.	....	....	....	....	....	.25	....	....	....	T.	....	.01	1.30	....	5.44
Steelville‖	Meramec	.10	.75	....	....	....	.05	.15	2.35	....	....	....	.39	....	....	.71	....	....	....	....	....	....	....	....	.31	....	....	....	....	....	.90	....	5.71
Stover‖	Missouri	....	....	....	....	....	....	.34	.92	....	....	....	.10	....	....	.84	....	....	....	....	....	....	....	.49	.07	....	....	.04	.02	....	1.02	....	3.84
Tuscumbia‖	Osage	....	.20	....	....	.01	....	.13	1.35	....	T.	....	.09	....	....	1.49	....	....	....	....	....	....	....	.11	.22	....	....	.01	.05	....	1.80	....	5.46
Willow Sprgs.‖‖ (near)	White	.05	.42	....	....	....	....	....	3.50	....	.03	....	.37	....	....	.82	....	....	....	....	....	....	....	....	.08	....	....	....	....	....	.10	....	5.37
Southwest Plain.																																	
Amoret	Osage	....	....	....	....	....	....	.18	....	....	....	....	....	....	1.43	....	....	....	.01	....	....	....	....	....	....	....	....	....	....	....	.20	....	1.82
Appleton City	do	.05	.09	....	....	....	....	.43	.01	T.	....	T.	....	....	T.	1.10	....	T.	T.	....	....	....	....	.10	T.	....	....	T.	.46	....	.58	....	2.82
Centerview	Missouri	T.	....	....	....	....	T.	.01	....	.02	....	.03	....	....	.04	1.20	....	....	T.	....	T.	T.	....	1.25	....	....	....	.04	.18	....	T.	....	2.77
Clinton	Osage	.05	....	....	....	....	....	.55	.05	....	....	....	....	....	....	1.05	....	....	T.	....	....	....	....	.34	....	....	....	.05	....	....	.60	....	2.69
Concordia‖‖	Missouri	....	.21	....	....	....	....	....	....	....	....	....	....	....	....	....	.74	....	....	....	....	....	....	....	.30	....	....	.37	....	....	....	....	1.62
Harrisonville‖	Osage	....	.03	....	....	....	....	....	.05	....	.02	....	....	....	....	1.29	....	....	....	....	....	....	....	.21	.05	....	....	....	....	....	....	....	1.65
Joplin*	Neosho	.11	....	....	T.	....	....	.18	.46	.02	....	....	....	....	....	1.34	....	....	T.	....	....	....	....	T	.05	....	....	....	....	.80	.22	....	3.18
Lamar‖	do	....	T.	....	....	....	....	.45	.40	....	T.	....	....	....	....	1.05	....	....	....	T.	....	....	....	....	.08	....	....	T.	....	....	1.38	....	3.36
Lamonte	Missouri	T.	....	....	....	....	....	.15	.01	....	....	.08	....	....	....	.92	....	....	....	....	....	....	....	1.20	.02	....	....	.20	.10	....	.60	....	3.28
Marshall	do	T.	....	....	....	....	....	.06	....	.02	T	.05	....	....	.05	....	....	....	....	....	....	T.	T.	.37	....	....	....	.12	.14	....	.30	....	1.11
Nevada	Osage	....	....	....	....	....	....	.90	....	....	....	....	....	....	....	....	1.44	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	2.34
Osceola‖‖	do	....	.13	....	....	....	....	.35	.50	....	....	....	.10	....	....	1.20	....	....	....	....	....	....	....	.08	....	....	....	....	....	....	1.03	....	3.39
Warsaw	do	....	.34	....	....	....	....	1.33	....	....	....	T.	....	....	....	1.20	....	....	T.	....	....	....	....	.49	....	....	....	T.	T.	....	1.10	....	4.46
Waverly‖	Missouri	....	.23	....	....	....	....	....	.04	....	....	....	....	....	T.	1.21	....	....	....	T.	....	T.	....	.36	.04	....	....	.23	.12	....	.07	....	2.30
Northwest Plateau.																																	
Albany‖‖	Grand	....	....	....	....	....	....	.03	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	T.	....	0.03
Bethany	do	.20	....	T.	....	....	....	T.	....	....	....	....	....	T.	.05	.40	....	T.	T.	T.	T.	....	....	....	....	....	....	....	....	....	....	....	0.65
Chillicothe‖‖	do	T.	.06	....	....	....	....	....	.03	....	.01	T.	T.	....	....	1.18	....	....	....	....	T.	T.	....	T.	T.	....	.02	....	.05	....	.04	....	1.39
Conception	Missouri	.06	....	....	....	....	....	T.	T.	T.	T.	T.	....	T.	1.31	....	....	T.	T.	....	....	....	....	T.	....	....	....	....	....	....	T.	....	1.37
Edgerton	do	.14	.02	....	....	....	....	T.	....	T.	T.	T.	....	....	.01	.55	....	....	T.	....	.01	T.	T.	.01	T.	....	....	....	T.	....	.01	....	0.75
Gallatin‖	Grand	T.	T.	....	....	....	....	....	....	....	....	....	....	....	....	.60	....	....	....	....	....	....	....	....	....	....	....	....	.20	....	T.	....	0.80
Grant City	do	T.	....	....	....	....	....	T.	....	....	....	....	....	....	.24	....	....	....	....	T.	T.	T.	T.	.04	....	....	....	....	....	....	....	....	0.28
Kansas City***	Missouri	.26	....	....	....	T.	....	.04	....	T.	T.	T.	....	....	.67	....	....	T.	T.	....	T.	....	T.	.07	....	T.	....	.01	....	....	.08	....	1.13
Kidder‖	Grand	T.	.20	....	....	....	....	....	.03	....	....	....	....	....	....	.45	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	.02	....	0.70
King City	Missouri	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lexington	do	.07	.02	....	....	....	....	.02	....	....	.02	....	....	....	....	.83	....	....	....	....	....	....	....	.28	....	....	....	.14	.03	....	.10	....	1.46
Liberty	do	.20	.05	....	....	....	....	....	....	....	....	....	....	....	1.40	....	....	....	....	....	....	....	....	.05	....	....	....	.10	....	....	....	....	1.80
Maryville‖	do	....	.03	....	....	....	....	....	....	....	....	....	....	....	....	.85	....	....	T	T.	....	.03	....	....	....	....	....	....	....	....	....	....	0.91
Oregon	do	....	.04	....	....	....	....	T.	....	T.	....	T.	....	....	.32	....	....	....	T.	....	T.	....	T	.06	....	....	T.	....	....	....	T.	....	0.42
St. Joseph***	do	.13	....	....	....	....	....	.01	....	T.	T.	T.	....	....	.36	T.	....	T.	.01	....	T.	....	T.	.02	....	....	....	....	....	....	.05	....	0.58
Tarkio	do	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.02	....	....	....	....	....	....	....	....	....	....	....	.04	....	0.06
Trenton	Grand	....	.11	....	....	....	....	.01	....	....	.06	T.	....	....	T.	.84	....	T.	T.	....	.02	....	T.	.02	....	....	T.	....	.13	....	T.	....	1.19

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch. *** Regular U. S Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for November, 1927

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Mean
Northeast Plain.																																	
Brunswick §§	Maximum	78	55	55	54	44	44	36	45	62	74	72	47	60	69	36	35	32	32	42	54	70	51	38	49	63	71	62	66	66	37	..	53.3
	Minimum	48	33	36	36	42	21	25	34	35	38	61	22	22	39	34	26	23	19	21	29	42	50	35	29	30	32	48	46	42	35	..	34.4
Columbia	Minimum	82	51	63	61	47	40	36	45	47	75	74	46	56	72	62	30	31	32	44	56	71	72	41	47	64	73	67	72	73	45	..	55.8
	Maximum	43	36	35	40	27	22	32	35	36	47	31	25	33	52	30	25	24	21	31	37	51	39	36	34	36	59	54	51	45	17	..	36.1
Fayette	Maximum	82	66	67	65	44	44	37	48	69	73	74	51	61	70	56	36	32	36	48	56	73	64	64	50	66	71	64	68	71	48	..	58.5
	Minimum	49	30	28	32	40	17	22	31	32	34	45	22	27	32	33	24	19	17	21	26	46	50	34	30	28	34	50	50	37	30	..	32.3
Hannibal	Maximum	81	50	61	61	45	37	36	40	43	72	76	45	55	74	62	32	31	33	44	56	68	70	41	47	62	71	66	70	69	43	..	54.7
	Minimum	43	36	38	37	28	22	33	35	36	43	33	27	33	51	32	26	25	20	30	34	50	40	37	33	37	58	50	48	43	20	..	36.0
Jefferson City §§	Maximum	81	51	62	63	44	40	39	43	58	75	74	46	58	74	43	34	33	34	47	57	70	74	43	46	67	73	68	72	85	37	..	56.4
	Minimum	57	36	36	39	41	24	30	34	37	38	58	25	28	34	38	27	25	21	23	33	41	53	37	34	34	41	57	59	48	36	..	37.5
Kirksville	Maximum	71	54	63	58	49	40	35	41	44	72	70	46	56	66	66	..	31	33	40	51	67	66	48	50	61	69	68	65	65	51	..	ᵃ55.0
	Minimum	42	32	34	35	28	17	29	31	30	30	36	21	29	44	29	..	21	15	25	29	46	35	32	26	33	50	44	42	41	28	..	ᵃ32.2
Louisiana	Maximum	81	76	64	62	60	40	40	42	40	72	76	68	55	74	73	50	42	35	44	55	65	72	60	50	64	72	71	72	74	63	..	60.4
	Minimum	54	34	35	33	37	17	28	34	37	39	52	27	30	42	40	29	27	22	28	30	48	56	42	33	35	52	56	50	42	28	..	37.2
Macon §§	Maximum	79	53	62	62	40	42	35	43	60	73	76	45	56	68	38	32	30	32	45	55	70	61	37	48	61	69	63	67	65	34	..	53.4
	Minimum	48	32	33	35	37	19	29	31	31	34	57	21	23	37	34	25	23	15	18	29	43	49	34	28	28	35	50	45	45	30	..	33.3
Mexico §§	Maximum	80	55	63	64	42	43	36	45	56	72	74	48	67	74	60	30	32	34	47	57	70	69	63	46	67	70	63	70	75	35	..	56.9
	Minimum	63	35	36	42	40	25	26	29	31	37	52	29	28	34	59	29	25	20	21	30	51	52	60	36	37	60	55	57	46	33	..	39.3
St. Louis(1)	Maximum	80	51	62	64	47	36	35	43	44	72	77	48	54	72	61	35	32	36	45	56	66	71	56	44	62	75	66	70	72	51	..	56.1
	Minimum	46	40	42	44	31	28	32	34	36	44	40	32	34	50	34	30	28	27	32	34	51	56	43	38	36	56	62	57	51	28	..	39.9
Unionville	Maximum	68	52	60	62	52	38	37	44	50	70	70	43	54	63	63	32	30	30	40	40	64	60	35	50	60	65	63	52	60	52	..	52.0
	Minimum	43	30	35	36	30	15	30	32	30	40	34	20	30	48	30	20	18	12	26	28	36	33	30	25	30	50	37	44	40	27	..	31.3
Warrenton	Maximum	81	77	62	62	55	40	37	42	42	72	76	48	58	75	68	37	30	39	47	57	65	74	72	46	63	73	73	72	89	71	..	60.1
	Minimum	56	37	37	38	37	21	30	33	35	39	47	26	31	45	36	28	24	20	28	32	49	60	43	34	32	53	60	59	44	27	..	38.0
Southeast Lowlands.																																	
Campbell	Maximum	82	75	66	66	58	49	43	51	51	73	76	72	63	75	67	62	37	44	50	56	67	72	75	67	60	78	77	71	72	73	..	64.3
	Minimum	51	45	29	33	43	25	35	39	40	46	56	30	31	43	49	33	29	25	29	25	52	56	59	44	30	50	56	59	51	36	..	41.0
Caruthersville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Doniphan	Maximum	84	80	71	71	69	54	45	56	47	65	76	52	58	74	64	47	40	42	52	55	65	69	72	69	74	76	76	70	75	68	..	63.9
	Minimum	48	45	29	34	33	26	36	38	38	45	50	30	30	45	45	32	28	30	29	32	45	48	58	40	49	49	57	60	54	52	..	41.2
Jackson	Maximum	79	74	77	65	62	43	41	47	46	70	73	72	60	72	65	49	38	46	48	54	63	69	67	66	57	75	70	69	71	69	..	61.9
	Minimum	55	41	28	31	40	23	30	35	36	37	57	31	26	45	45	31	27	26	29	28	45	55	50	39	27	46	55	58	49	32	..	38.6
Poplar Bluff	Maximum	82	71	71	69	59	52	48	56	46	65	79	73	62	76	67	47	37	47	49	58	66	68	73	66	60	77	78	69	76	68	..	63.8
	Minimum	47	44	27	32	44	24	34	37	38	42	56	28	29	41	52	31	28	27	27	25	47	47	55	38	29	47	58	57	48	33	..	39.1
Sikeston	Maximum	81	..	55	65	66	46	41	48	49	55	71	74	57	59	71	60	35	33	41	51	55	64	70	73	48	62	77	77	71	73	..	ᵃ59.6
	Minimum	45	..	35	33	38	26	31	34	40	39	54	34	31	46	48	33	30	28	27	28	35	52	55	44	30	31	55	57	53	56	..	ᵃ39.6
Cairo, Ill.	Maximum	79	68	62	62	54	42	44	51	51	77	72	50	59	70	61	43	37	39	46	53	64	70	71	66	59	77	74	70	72	70	..	60.4
	Minimum	62	42	37	44	33	29	34	42	40	47	48	37	36	55	43	33	29	31	32	33	50	59	60	41	37	54	60	61	60	33	..	43.4
Ozark Plateau.																																	
Arcadia §§	Maximum	79	52	63	63	45	44	40	48	49	68	74	53	58	70	59	32	30	40	49	54	62	66	65	48	59	72	71	68	73	46	..	56.7
	Minimum	50	40	28	30	32	22	23	31	35	34	48	29	26	27	50	29	24	25	26	27	33	49	54	35	27	30	58	58	40	44	..	35.5
Aurora	Maximum	78	65	63	67	60	45	45	50	53	76	73	50	62	73	65	33	38	39	52	55	71	74	61	53	64	71	73	72	78	68	..	60.9
	Minimum	58	41	38	35	43	27	32	43	40	50	43	27	34	48	31	26	22	20	32	34	45	61	40	31	36	60	63	52	45	30	..	39.6
Birchtree	Maximum	81	75	63	65	62	47	45	55	51	75	77	57	59	70	68	40	40	41	46	55	69	69	71	57	62	72	72	72	77	70	..	62.1
	Minimum	54	45	29	36	42	24	37	40	38	44	50	38	32	46	38	30	26	23	30	40	50	59	57	35	27	55	58	40	60	33	..	40.5
Eldon §§	Maximum	81	54	65	64	64	44	38	43	56	75	73	48	61	71	40	..	..	..	45	57	74	72	43	50	60	73	68	71	78	41	..	ᶜ59.6
	Minimum	56	35	34	37	40	23	26	34	37	37	56	24	24	34	40	..	..	..	28	21	36	49	37	34	31	32	59	58	41	36	..	ᶜ37.0
Farmington	Maximum	77	72	60	64	56	52	37	44	48	68	77	51	62	70	66	40	29	38	49	54	61	67	64	53	51	76	72	68	74	68	..	58.9
	Minimum	52	38	30	32	38	22	32	34	35	41	51	29	28	45	40	30	25	22	29	30	48	58	49	29	30	49	59	58	43	30	..	37.9
Koshkonong	Maximum	80	73	64	65	69	46	43	56	49	70	75	58	58	69	64	49	41	43	45	54	65	67	72	66	68	71	76	70	77	69	..	62.4
	Minimum	56	43	36	41	44	26	35	39	39	44	51	28	32	46	38	29	25	23	29	33	44	59	57	38	34	56	57	62	56	34	..	41.1
Lebanon §§	Maximum	82	51	63	64	45	45	42	44	56	78	76	49	61	72	46	31	33	37	44	56	73	74	54	48	64	75	69	71	79	40	..	57.4
	Minimum	56	33	33	36	39	21	21	31	35	35	54	21	23	35	35	25	18	15	18	31	37	49	38	30	31	44	59	60	40	36	..	34.6
Mountain Grove §§	Maximum	84	57	60	64	54	47	48	55	54	76	68	57	62	72	46	35	33	38	49	53	72	70	59	59	63	70	71	72	78	44	..	59.0
	Minimum	53	37	32	38	39	22	30	32	34	34	47	24	29	40	42	25	21	19	23	31	34	52	49	31	33	44	57	58	48	40	..	36.6
Neosho	Maximum	67	67	62	64	64	52	57	56	59	73	73	54	61	69	68	35	39	39	50	55	69	72	74	51	63	70	70	74	74	74	..	61.8
	Minimum	55	35	32	36	43	29	38	42	42	57	48	25	28	51	31	32	20	18	29	33	49	64	39	30	28	60	64	60	39	30	..	39.6
Rolla	Maximum	80	63	61	63	58	45	41	42	45	72	75	55	62	73	65	35	32	37	47	56	67	74	71	50	67	74	69	71	73	73	..	59.9
	Minimum	58	36	35	37	39	25	32	35	36	45	44	26	31	48	33	27	24	23	30	35	48	48	41	34	34	57	61	64	45	29	..	38.7
Springfield	Maximum	79	50	62	61	51	43	47	49	50	75	72	49	57	69	60	29	33	39	47	52	69	72	58	50	61	71	70	70	76	62	..	57.8
	Minimum	43	38	39	45	32	27	35	39	38	49	33	27	35	49	29	24	23	22	32	35	46	46	33	31	37	57	61	54	54	26	..	38.0
Southwest Plain.																																	
Amoret	Maximum	82	78	71	67	54	48	45	54	64	76	72	51	63	68	68	41	38	32	50	55	72	70	41	54	62	71	72	70	72	69	..	61.0
	Minimum	48	46	29	39	36	23	36	38	38	62	21	27	33	30	30	25	24	20	25	34	30	38	31	24	25	57	58	52	49	28	..	35.2
Appleton City	Maximum	64	56	67	64	59	44	41	46	50	73	71	47	60	69	68	36	36	32	48	55	73	69	42	50	61	72	69	68	72	63	..	57.5
	Minimum	51	33	36	42	40	27	35	36	36	49	42	25	31	49	31	26	25	22	28	35	47	42	34	28	31	57	55	57	44	28	..	37.4
Centerview	Maximum	68	58	62	62	64	48	52	59	68	72	68	42	59	62	60	41	58	36	42	60	67	46	36	45	58	72	55	61	52	32	..	55.5
	Minimum	48	33	36	39	43	26	36	40	37	60	38	24	31	53	32	25	25	18	27	35	48	41	32	29	34	56	48	52	27	22	..	36.5
Clinton	Maximum	80	60	67	65	59	47	43	47	52	74	73	49	60	70	68	43	35	35	42	56	72	70	60	50	60	72	70	68	72	63	..	59.4
	Minimum	55	35	36	41	39	28	35	37	40	50	43	26	30	49	32	27	28	20	30	34	45	44	35	32	35	45	55	58	47	30	..	38.0
Harrisonville §§	Maximum	78	56	70	63	45	44	38	52	63	74	68	46	57	66	35	39	36	31	47	57	71	51	36	52	62	69	64	65	70	37	..	54.7
	Minimum	47	30	32	36	39	25	26	34	35	37	61	21	23	31	28	24	23	18	22	29	41	50	30	25	26	31	49	47	42	28	..	33.0
Lamar §§	Maximum	80	56	68	70	50	45	46	52	64	75	70	50	65	68	37	35	38	36	54	58	74	73	43	51	65	74	71	70	76	33	..	58.2
	Minimum	56	36	36	37	45	27	30	37	40	41	64	26	26	38	33	28	24	22	25	33	40	58	38	29	31	36	63	65	43	32	..	38.0
Lamonte	Maximum	81	57	65	64	55	46	40	48	52	73	73	49	62	69	66	34	32	32	43	54	76	68	40	51	65	71	66	68	70	55	..	57.5
	Minimum	44	30	32	37	31	22	33	35	33	50	33	21	28	50	30	24	22	18	28	30	47	35	32	29	32	56	51	47	41	20	..	34.0
Marshall	Maximum	73	68	..	65	55	44	46	41	48	73	71	47	65	68	68	34	32	32	38	44	71	68	40	46	70	67	67	68	68	60	..	ᵇ56.4
	Minimum	51	30	..	38	35	22	30	30	33	41	39	24	26	61	26	24	22	22	18	30	42	40	33	22	32	30	40	42	40	24	..	ᵃ32.7
Nevada	Maximum	78	56	67	66	58	46	44	51	52	74	71	49	60	68	69	36	36	34	51	57	73	69	43	51	62	72	70	69	74	65	..	59.0
	Minimum	50	34	33	44	39	26	37	38	38	51	42	25	28	55	31	26	24	21	28	35	48	41	35	29	32	58	63	56	46	29	..	38.1
Warsaw	Maximum	81	65	67	65	60	59	45	55	52	74	76	60	63	74	65	49	42	38	69	68	74	75	68	55	67	75	75	75	77	69	.	64.6
	Minimum	59	32	35	39	35	24	35	37	38	50	43	24	31	34	33	26	22	20	28	30	50	51	36	33	30	50	58	60	42	26	..	37.0
Northwest Plateau.																																	
Chillicothe §§	Maximum	74	54	66	62	42	45	36	44	58	56	51	53	77	67	37	39	36	33	40	52	69	42	36	53	63	69	52	59	64	40	..	52.3
	Minimum	42	31	31	34	38	18	25	32	34	35	31	31	31	21	31	24	22	17	17	29	38	40	32	27	32	35	42	40	42	30	..	31.1
Grant City	Maximum	68	59	63	59	49	42	36	44	47	79	73	43	49	61	60	35	31	28	40	46	63	58	36	50	60	60	58	56	60	43	..	51.9
	Minimum	41	31	38	39	31	19	32	32	36	40	30	21	36	46	25	20	23	15	21	28	46	29	30	23	35	46	32	46	39	26	..	31.9
Kansas City	Maximum	73	55	65	62	50	42	40	46	52	76	70	45	56	66	40	38	35	30	45	53	71	67	36	52	62	70	61	62	62	40	..	54.1
	Minimum	40	36	43	46	32	30	35	35	39	52	33	30	35	40	28	24	26	21	29	37	52	30	30	31	40	59	44	46	40	28	..	36.4
Kidder §§	Maximum	70	53	60	60	43	41	35	42	57	76	68	44	56	64	32	35	32	29	40	52	68	39	34	52	60	67	50	58	61	36	..	50.5
	Minimum	39	30	30	35	37	19	22	31	32	33	55	20	20	31	30	22	21	15	16	27	37	36	28	24	24	32	37	37	40	26	..	29.5
Lexington	Maximum	76	76	66	63	53	45	38	46	45	76	70	49	58	70	65	39	36	31	45	51	71	68	37	52	63	70	67	63	65	53	..	56.9
	Minimum	46	35	39	42	35	26	35	35	34	44	34	26	31	53	31	26	25	19	29	35	48	36	32	29	35	56	45	48	47	23	..	36.0
Maryville	Maximum	68	57	64	57	46	45	37	45	48	81	74	43	50	63	60	37	32	29	36	47	63	60	33	59	64	61	58	59	58	38	..	52.4
	Minimum	39	31	35	35	35	20	33	33	39	39	30	20	32	50	26	20	20	17	25	25	47	28	27	23	33	46	32	40	34	30	..	31.5
Oregon	Maximum	68	56	67	59	51	49	39	44	49	83	73	51	54	64	56	40	33	29	43	48	66	61	33	60	65	61	59	62	59	47	..	54.3
	Minimum	39	32	36	42	33	25	35	35	38	43	33	22	35	51	27	20	24	18	28	31	42	28	28	25	36	52	45	40	45	25	..	33.8
St. Joseph	Maximum	71	55	65	60	49	43	38	44	47	82	70	46	55	64	36	37	33	29	44	51	68	52	34	56	63	65	53	61	61	37	..	52.3
	Minimum	38	35	41	43	29	28	35	35	40	47	30	25	36	36	26	22	24	20	29	33	50	30	30	29	38	53	39	44	37	27	..	34.3
Trenton	Maximum	70	53	63	60	54	41	36	44	58	73	70	43	53	63	63	30	31	31	40	53	68	63	36	47	55	63	60	53	53	45	..	52.4
	Minimum	45	33	37	35	34	21	32	36	34	58	34	23	30	50	30	22	23	17	26	30	38	36	32	26	30	41	38	40	45	29	..	33.5

ᵃ, ᵇ, ᶜ, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

VOL. XXXI. COLUMBIA, MO., DECEMBER, 1927. No. 12.

GENERAL SUMMARY.

Following the unusual mild weather of October and November, December, 1927, was mostly cold in all of Missouri, although, save two spells of the "blizzard" type, the prevailing weather possessed those physiological qualities popularly known as snap and vigorousness.

The first five days were cold generally, followed by a spring-like day on the 6th. An abrupt change to a cold wave on the 7th, that overspread the State to the southern limits by the 8th, with some snow and wind, and zero and subzero cold, the lowest being −11° at one station. After this and up to about the 25th, the month was mainly cold, though marked by open skies and some changeable temperature conditions. After the 25th there were a few days warmer than normal, but this spell was abruptly ended by another cold wave on the 30th-31st, attended by heavy snow and strong westerly to northerly winds. This cold wave was strongly felt to the southern border, the lowest temperature being 5° above, and in central and northern counties 9° below zero, though the center of cold had not reached Missouri by midnight of the 31st. The snow was fine and relatively dry, and drifted badly, piling up considerable depths in depressions and in the more or less protected places, while many open fields were swept practically bare of snow. From northward to the Ozarks practically all railroad and highway traffic was interrupted and very nearly demoralized for the time being. And automobile accidents on the main highways were numerous and serious.

The usual farm work was well in hand. Rough feed was plentiful. Winter wheat was covered with snow during some of the coldest weather and the condition was generally satisfactory. Some adverse effects were observed in the automobile business, but food and clothes were active.

TEMPERATURE.

The monthly mean temperature for the State, based upon the records of 66 stations, was 29.9°, or 4° below the normal. It was the coldest December since 1924. There were two rather severe cold waves, the first on the 7th-8th, and the second on the 30th-31st. The first 20 days or more were mainly cold but the 6th, 12th, 13th, and 14th were quite pleasant days, while from the 26th to the 29th mild weather was most in evidence. The first cold wave brought zero and subzero temperatures to much of the State, as well as the second one, though the latter was more general and widespread. The morning of the 8th and 31st were the coldest, when minima ranged from 5° to 10° below zero from the northern border to the Ozarks and 5° to 10° above zero on the southern border. There were 24 to 28 days with minimum of 32° or lower, and 1 to 3 days with zero or lower. During the afternoon of the 13th maxima ranged from 65° to 74°.

PRECIPITATION.

The average precipitation for the State, 98 stations reporting, was 2.68 inches, or about 0.65 inch more than the 56 years' average. The northwestern plateau was a little drier than normal, while the other sections were wetter. General precipitation occurred on the 7th, 13th, and on the last 4 days. Some excessive amounts fell in the southeast on the 13th, namely, 5.65 inches at Koshkonong, 4.30 inches at Birchtree, 4.12 inches at Marble Hill, and more than 2 inches at several other stations The Eleven Point River went out of banks. The first 5 or 6 days and from the 16th to the 26th were generally without rain.

The snowfall for the State averaged nearly 3 inches. Over most of the central counties depths were 6 to 9 inches, and somewhat less to the north and south, with only a trace along the southern border. There were two snowstorms, one on the 7th-8th and the other 30th-31st. The latter gave the most general and heaviest amounts, and, being attended by high winds, drifted to considerable depths, resulting in delayed railroad and highway traffic and demoralized business generally.

MISCELLANEOUS PHENOMENA.

Fogs, dense.—7th, 11th, 12th, 13th, 14th, 24th, 25th, 29th, and 30th.

Halos, lunar.—1st, 7th, 29th, and 31st.

Halos, solar.—1st, 6th 14th, 21st, 22d, 26th, and 31st.

Sleet, light and local, without damage.—10th, 11th, and 30th.

Strong winds to gales occurred on the 7th, 15th, 30th, and 31st. No damage, except suspended traffic on 30th-31st, by drifted snow, and automobile accidents on highways.

PRESSURE, HUMIDITY, SUNSHINE, AND WIND DATA.

Stations.	Mean barometric pressure (sea-level).	Mean relative humidity.		Sunshine.		Wind.				
		7 a. m.	7 p. m.	Total hours.	Percentage of possible.	Total movement, miles.	Average hourly velocity.	Max. velocity.		
								Miles per hour.	Direction.	Date.
Columbia	30.15	80	68	192	65	7,081	9.5	36	w	7
Hannibal	30.14	78	..	...	..	7,478	10.1	40	sw.	7
Kansas City	30.15	76	62	183	62	9,225	12.4	50	nw.	7
St. Joseph	30.14	82	65	193	66	7,624	10.2	40	nw.	7
St. Louis	30.15	81	71	162	55	10,624	14.3	52	nw.	7
Springfield	30.12	84	66	169	57	8,637	11.6	42	w	7
Cairo, Ill	30.17	79	68	...	..	7,883	10.6	40	sw.	13
Keokuk, Iowa	30.15	76	67	161	55	7,017	9.4	40	w.	7

COMPARATIVE DATA FOR DECEMBER.

Year.	Temperature.				Precipitation.				Number of days.			
	Mean.	Departure.	Highest.	Lowest.	Mean.	Departure.	Greatest in 24 hours.	Total snowfall, unmelted.	With .01 inch or more.	Clear.	Partly cloudy.	Cloudy.
1888	35.9	+1.7	70	0	2.29	+0 24	....	....	6	....	....	....
1889	46.8	+12.6	78	2	0.96	−1.09	....	....	5	....	....	....
1890	36.0	+1.8	76	− 3	1.03	−1.02	....	....	3	....	....	....
1891	39.8	+5.6	72	− 1	1.90	−0.15	....	....	6	....	....	....
1892	29.4	−4.8	75	−22	2.38	+0.33	3.08	4.8	6	8	7	16
1893	35.2	+1.0	76	7	0.95	−1.10	2.95	2.7	5	11	11	9
1894	36.7	+2.5	75	− 7	2.13	+0.08	3.01	1.3	5	14	8	9
1895	34.3	+0.1	69	− 8	6.13	+4.08	6.95	3.4	8	9	8	14
1896	38.6	+4.4	79	− 5	0.93	−1.12	2.25	T.	3	13	8	10
1897	29.3	−4.9	74	−14	2.80	+0.75	2.70	6.3	7	8	8	15
1898	28.7	−5.5	74	−20	1.69	−0.36	2.50	5.1	5	17	6	8
1899	30.4	−3.8	72	−13	2.11	+0.06	1.70	6.6	9	12	9	10
1900	35.6	+1.4	68	− 3	0.69	−1.36	1.08	0.6	4	14	8	9
1901	28.5	−5.7	71	−29	2.93	+0.88	4.43	6.9	8	11	7	13
1902	30.7	−3.5	68	− 7	2.91	+0.06	2.50	3.1	8	10	4	17
1903	30.2	−4.0	65	11	1.51	−0.54	1.80	2.3	5	16	7	8
1904	32.9	−1.3	75	−10	1.50	−0.55	1.55	6.0	5	16	7	8
1905	33.3	−0.9	66	− 2	1.45	−0.60	2.24	1.7	4	18	6	7
1906	36.1	+1.9	73	0	2.27	+0.22	2.85	0.6	8	8	6	17
1907	37.7	+3.5	76	3	1.84	−0.21	1.78	3.7	7	11	7	13
1908	38.4	+4.2	80	− 4	0.85	−1.20	1.35	T.	3	16	7	8
1909	24.9	−9.3	76	−17	2.86	+0.81	2.50	7.7	8	12	6	13
1910	31.2	−3.0	67	− 5	1.25	−0.80	2.85	2.4	4	16	5	10
1911	36.7	+2.5	74	−11	2.80	+0.70	2.00	5.1	7	13	6	12
1912	36.5	+2.3	72	2	0.59	−1.46	0.91	0.6	3	19	5	7
1913	38.3	+4.9	74	− 3	2.27	+0.19	2.25	6.6	7	9	4	18
1914	26.8	−7.1	68	−18	2.48	+0.31	2.30	6.6	9	7	5	19
1915	34.7	+1.3	84	−13	2.77	+0.55	3.20	7.8	6	12	6	13
1916	31.3	−2.3	82	−29	1.85	−0.29	3.40	4.4	6	15	6	10
1917	25.5	−8.7	82	−23	0.74	−1.40	2.51	7.3	5	11	7	13
1918	40.0	+6.6	83	−12	3.21	+1.14	5.50	7.8	7	13	6	12
1919	28.5	−4.5	74	−22	0.69	−1.50	2.65	0.7	3	12	4	15
1920	35.6	+2.6	77	−10	1.93	−0.22	2.30	2 3	5	13	7	11
1921	36.9	+3.8	74	− 8	1.86	−0.23	1.91	1.9	6	13	7	11
1922	36.3	+2.9	75	− 6	2.11	−0.14	3.04	0.2	6	15	6	10
1923	41.0	+7.1	82	− 4	3.06	+1.03	2.23	0.8	8	11	6	14
1924	27.7	−6.2	80	−28	3.43	+1.40	4.20	4.6	7	13	6	12
1925	31.6	−2.3	80	−10	1.45	−0.58	2.81	4.8	4	13	7	11
1926	32.6	−1.3	75	−12	2.18	+0.15	2.00	2.4	6	11	5	15
1927	29.9	−4.0	74	−11	2.68	+0.65	5.65	2.9	6	15	5	11

Climatological Data for December, 1927

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				Number of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precip., .01 inch or more.	Clear.	Partly cloudy	Cloudy.		
Northeast Plain.																				
Brunswick	Chariton	652	47	27.2[a]	−3.4	62	6	−3	8†	43	1.72	+0.10	0.63	7.0	8	17	0	14	nw.	O. K. Benecke
Clifton Hill	Randolph	731	27	27.0	−4.1	61	6	−6	31	51	2.53	+1.13	1.15	8.0	3	12	10	9	......	Dr. A. J. Bradsher
Columbia	Boone	748	36	29.2	−4.0	63	13	−4	31	44	1.94	−0.07	0.85	6.0	6	17	6	8	s	U. S. Weather Bureau
Downing	Schuyler	876	5	26.2	......	58	13	−5	8	48	1.77	+0.31	1.00	1.0	3	14	9	8	w.	James Taylor
Fayette	Howard	661	46	27.2	−4.0	62	6	−5	31	44	3.19	+1.56	1.28	4.6	4	..	..	..	......	J. D. Settle
Fulton	Callaway	818	38	29.4	−4.3	64	13	−1	31	38	2.29	+0.37	0.68	7.5	7	13	9	9	......	Chamber of Commerce
Gorin	Scotland	700	39	....	......	..	..	....	..	..	1.53	−0.16	0.94	0.5	5	9	8	14	nw.	J. W. Pulliam
Hannibal	Marion	534	34	28.5	−3.0	60	6	−5	31	46	2.05	+0.40	0.84	6.5	8	15	6	10	sw.	U. S. Weather Bureau
Jefferson City	Cole	557	38	29.8	−3.0	65	12	−2	31	41	2.39	+0.54	0.67	9.0	8	20	1	10	n.	Miss Emma Swift
Kirksville	Adair	969	37	25.8	−3.8	60	13	−5	8†	47	2.22	+0.58	1.02	6.0	4	11	3	17	nw.	Prof. J. S. Stokes
Louisiana ††	Pike	469	32	31.1	−0.4	65	7	0	31	55	1.93	+0.24	0.62	3.0	7	20	1	10	w.	J. T. Farrell
Macon	Macon	875	27	26.2	−4.2	61	6	−6	31	41	2.59	+1.19	1.00	7.6	6	17	7	7	nw.	W. C. Brown
Mexico	Audrain	800	37	28.6	−3.2	63	13	−1	31	40	2.25	+0.25	0.86	5.5	8	23	0	8	sw.	Mrs. Abbie Snoddy
Monroe City	Monroe	748	6	....	......	..	..	....	..	..	2.13	......	1.00	6.0	5	15	8	8	se.	J. S. Conway
St. Charles	St. Charles	456	38	31.7	−3.2	65	29	1	31	43	0.91	−0.96	0.51	1.0	5	15	4	12	s.	L. C. Saeger
St. Louis (1)	St. Louis City	568	52	32.4	−2.5	63	12	−1	31	50	2.31	+0.08	1.19	2.5	9	16	3	12	nw.	U. S. Weather Bureau
St. Louis (2)	....do	578	14	31.2	−3.1	65	13	−2	31	47	2.26	+0.16	1.09	1.8	8	19	2	10	se.	St. Louis University
Shelbina	Shelby	779	33	....	......	..	..	....	..	..	2.34	+0.73	1.04	5.2	6	..	..	..	......	J. C. Jewett
Steffenville	Lewis	650	28	28.0	−2.6	58	6†	−3	8†	48	2.77	+1.21	0.95	6.0	5	12	8	11	n.	Frank Hall
Unionville	Putnam	1,062	33	25.0	−2.4	56	6	−7	8	47	1.55	−0.09	0.85	0.5	2	11	6	14	sw.	Geo. W. Davis
Warrenton	Warren	816	44	31.6	−0.4	64	13	−1	31	46	2.21	+0.08	0.89	2.0	4	15	7	9	nw.	Prof. A. W. Ebeling
Keokuk, Iowa	Lee, Ia.	614	54	26.9	−2.7	59	13	−4	31	50	2.07	+0.20	0.84	6.7	6	10	10	11	w.	U. S. Weather Bureau
Section means and	extremes	.....	..	28.6	−3.0	65	7†	−7	8	55	2.13	+0.37	1.28	4.7	6	15	5	11	nw.	
Southeast Lowlands.																				
Benton	Scott	340	1	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	E. R. Tirmenstein
Campbell	Dunklin	314	1	37.2	......	74	13	7	31	41	3.00	......	0.86	0	7	16	3	12	n.	Jeff. King
Caruthersville	Pemiscot	265	30	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	John T. Markey
Doniphan	Ripley	344	22	35.6	−1.8	70	12†	8	8†	42	5.35	+2.02	2.50	0	5	17	3	11	sw.	W.W. Martin
Jackson	Cape Girardeau	428	35	34.3	−2.3	67	13	4	31	44	5.67	+2.47	3.59	T.	6	15	2	14	n.	John G. Putz
Marble Hill	Bollinger	470	31	35.2	−1.0	68	13	5	31	40	6.88	+3.55	4.12	0	8	16	3	12	n.	R.A. DeWitt
Morehouse	New Madrid	289	25	....	......	..	..	....	..	..	3.54	−0.47	1.01	0	8	18	2	11	n.	John A. Spence
Parma	New Madrid	281	5	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	H. W. Kendall
Patton	Bollinger	605	17	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	S. P. Presnell
Poplar Bluff	Butler	329	22	36.3	−0.5	70	13	6	9	39	4.95	+0.77	1.48	0	7	16	5	10	e.	J. H. Wolpers
Sikeston	Scott	318	21	36.6	−0.9	72	14	10	8†	53	3.19	−0.82	1.00	0	7	16	3	12	sw.	R. B. Drummond
Cairo, Ill.	Alexander, Ill	358	51	37.0	−0.8	72	13	2	31	50	2.66	−0.67	0.78	T.	7	14	2	15	s.	U. S. Weather Bureau
Section means and	extremes	....	..	36.0	−1.2	74	13	5	31	53	4.40	+0.98	4.12	T.	7	16	3	12	n.	
Ozark Plateau.																				
Arcadia	Iron	926	45	31.4	−2.9	65	12	8	8†	38	4.54	+1.56	1.49	T.	7	22	0	9	nw.	Arcadia College
Aurora	Lawrence	1,370	36	33.4	−1.7	66	12	−3	31	44	1.62	−1.02	0.64	0.4	5	17	4	10	se.	W T. Troughton
Birchtree (near)	Shannon	1,000	31	34.9	−0.9	65	12†	4	8	39	5.62	+3.05	4.80	0	4	19	2	10	nw.	V. H. Kirkendall
Bolivar	Polk	1,071	32	33.2[a]	−3.6	65	12	−3	31	45	2.52	+0.12	1.29	1.3	9	16[f]	1[f]	8[f]	sw.	Southwest Baptist College
Dean ‡‡	McDonald	1,000	27	35.4[a]	−2.0	67	13	−2	31	45	2.27	+0.15	1.30	T.	8	23	2	6	sw.	H. E. Dean
Eldon	Miller	934	30	30.4[a]	−3.9	65	12	1	8†	44	2.44	+0.28	1.32	3.0	4	10[b]	9[b]	10[b]	n.	E. H. Shepherd
Farmington	St. Francois	918	15	32.8	−4.2	64	13	0	31	41	3.52	+0.81	2.16	0	9	13	11	7	sw.	Robert Forsyth
Goodland	Iron	1,000	32	32.1	−2.3	66	12	1	9	39	2.16	−0.32	1.12	0	6	17	5	9	s	F. M Adams
Greenville	Wayne	381	4	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	Wm. P. Owens
Hailey	Barry	1,350	1	....	......	..	..	....	..	..	2.50	......	0.80	0.7	7	16	8	7	w.	A. W. Madison
Koshkonong	Oregon	958	25	36.4[d]	−1.2	67	12	5	8	42	7.84	+4.68	5.65	0	7	11[d]	4[d]	12[d]	nw.	R. M. Hitt
Lebanon	Laclede	1,265	38	29.8	−5.2	68	12	−3	8†	43	1.32	−1.28	0.55	T.	6	13	8	10	e.	Mrs. Lou Mulcare
Lockwood	Dade	1,078	20	33.0	−2.5	65	12†	−4	31	44	2.34	+0.40	1.36	T.	2	21	1	9	nw.	C. S. Crow
Mountain Grove (near)	Wright	1,463	25	32.2	−2.1	66	12	−1	8	38	4.07	−1.84	2.73	0	5	14	6	11	s.	Mo. Fruit Exp. Sta.
Neosho	Newton	1,011	38	31.8	−4.9	69	13	−3	31	44	3.07	+0.53	1.79	T.	5	23	1	7	sw.	U. S. Fisheries Sta.
Rolla	Phelps	1,099	26	33.4	−0.2	65	12	1	8	43	2.88	+0.81	1.10	1.0	7	18	3	10	s.	Prof. Elmo G. Harris
Salem (near)	Dent	1,173	22	31.8	−3.4	68	29	0	31	42	2.35	+0.34	1.50	0.5	6	17	4	10	nw.	A. C. Leech
Seligman	Barry	1,542	24	33.2[f]	−3.4	64	12†	−2	8	43	2.42	−0.15	1.11	0.5	5	17[e]	2[e]	7[e]	sw.	Floyd E. Fawver
Seymour (near)	Webster	1,642	20	32.2	−2.2	63	12†	−3	8†	48	3.49	+1.44	2.19	0.1	5	17	2	12	s.	Ira H. Hailey
Springfield	Greene	1,324	38	33.1	−3.1	65	12	−4	31	45	1.87	−0.80	1.26	0.5	7	17	4	10	s.	U. S. Weather Bureau
Section means and	extremes	.....	..	32.8	−2.8	69	13	−4	31	48	3.10	+0.49	5.65	0.4	6	17	4	10	sw.	
Southwest Plain.																				
Amoret	Bates	831	19	30.4	−2.1	63	6	−7	31	47	2.04	+0.45	1.17	4.0	6	19	4	8	sw.	Andrew Rood
Appleton City	St. Clair	853	32	30.6	−3.7	62	13	−6	31	47	2.72	+1.08	1.06	2.6	8	12	12	7	sw.	W. G Bigelow
Centerview	Johnson	872	39	26.0	−7.4	56	13	−6	31	30	2.32	+0.52	1.25	4.0	4	17[a]	6[a]	7[a]	sw.	E. A. Markey
Clinton	Henry	765	33	30.6	−3.8	61	6	−5	31	45	3.26	+1.53	1.10	4.1	6	12	10	9	nw.	A. E. Derwent, M. D.
Harrisonville	Cass	904	49	26.4	−4.8	60	6†	−9	31	44	2.29	+0.51	1.04	8.3	6	7	0	24	nw	John H. Patterson
Lamar	Barton	980	39	30.6	−4.6	64	12	−3	31	40	2.32	+0.37	1.25	2.0	6	17	5	9	sw	Jesse A. Mann
Lamonte	Pettis	867	25	28.0	−6.2	62	6	−7	31	51	3.69	+2.03	1.75	9.5	7	16	7	8	nw.	J. E. Wheeler
Marshall	Saline	779	37	28.3	−3.3	63	6	−5	31	45	3.05	+1.39	1.20	8.0	6	12	7	12	nw.	Dr. W. H. Black
Nevada	Vernon	862	33	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	George A. Kaupp
Warsaw	Benton	687	26	33.0	−1.8	69	13	−3	31	49	2.45	+0.13	1.10	6.0	3	15	9	7	w.	Everett Martin
Section means and	extremes	.....	..	29.3	−4.2	69	13	−4	31	51	2.68	+0.90	1.75	5.4	6	14	7	10	sw.	
Northwest Plateau.																				
Bethany	Harrison	916	34	25.0	−5.3	56	13	−7	8†	46	1.15	−0.20	0.65	3.0	4	15	6	10	nw.	M. H. Moulton
Chillicothe	Livingston	779	17	24.9	−10.7	60	6	−7	31	44	1.81	+0.16	1.10	4.8	6	18	3	10	nw.	Wm. J. Olenhouse
Conception	Nodaway	980	37	24.2	−5.1	55	13	−11	8	47	0.72	−0.27	0.39	0.5	3	13	8	10	sw.	Fr. Adelhelm Hess
Edgerton	Platte	856	6	25.0[d]	......	60	6	−6	8	49	0.69	−0.64	0.28	1.8	4	17	2	12	n.	Fred L. Stiff
Grant City	Worth	1,134	22	23.4	−4.3	52	13	−10	8	40	0.73	−0.43	0.36	1.7	6	14	9	8	nw.	W. P. Spillman
Kansas City	Jackson	963	37	28.1	−4.4	61	6	−5	31	38	1.65	+0.29	0.72	8.5	8	13	9	9	nw.	U. S. Weather Bureau
Kidder	Caldwell	1,020	33	23.0	−6.7	56	6†	−8	8†	41	1.39	+0.09	0.82	3.0	3	16	3	12	nw	Linn Terry
King City	Gentry	1,095	1	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	D. B. Oliver
Lexington	Lafayette	688	41	29.2	−2.3	61	6	−6	31	49	2.07	+0.35	1.00	8.0	5	21	5	5	nw	Miss Carrie Loomis
Liberty	Clay	859	36	....	......	..	..	....	..	..	....	......	....	....	..	..	..	..	......	Pryor Carpenter
Maryville	Nodaway	1,169	36	23.8	−2.5	54	6	−10	8	47	0.88	−0.17	0.51	4.0	4	22	0	9	n.	J. R. Brink
Oregon	Holt	1,048	70	26.1	−2.4	55	13	−8	8†	47	0.69	−0.75	0.31	5.0	4	14	11	6	sw.	Mina Wright
St. Joseph	Buchanan	967	18	25.4	−4.7	57	13	−7	31	33	0.99	−0.11	0.77	2.0	5	15	8	8	nw.	U. S Weather Bureau
Tarkio	Atchison	916	23	22.0	−3.9	51	6	−9	8	36	0.52	−0.40	0.32	4.0	4	10	9	12	nw	Albert Volker
Trenton	Grundy	822	30	24.6	−5.0	55	6	−5	31	46	1.36	+0.01	0.62	1.5	5	8	12	11	s.	W. H. Estes
Section means and	extremes	.....	..	25.0	−4.8	61	6	−11	8	49	1.13	−0.15	1.10	3.7	5	15	7	9	nw.	
State means and	extremes	.....	..	29.9	−4.0	74	13	−11	8	55	2.68	+0.65	5.65	2.9	6	15	5	11	nw.	

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, [a], [b], [c], appearing in the table indicate number of days missing; for example, [b], represents two days, etc.

†Also on other dates. ††Received too late to be included in means and summaries. ‡‡Post-office addresses of these stations are as follows: of Dean, Anderson.

Daily Precipitation for December, 1927

Stations.	Drainage-basins.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Northeast Plain.																																	
Boonville‖	Missouri	.18						.26	T.					.31	.15														1.05			.15	2.10
Brunswick‖	Grand	.04						.63	.04	.02			.04	.03															.45			.47	1.72
Clifton Hill	Chariton							T.				T.		.74														T.	1.15		.64		2.53
Columbia***	Missouri							.32				T.	T.	.33		T.												.73	.12		.36	.08	1.94
Downing	Mississippi							.67					T.	T.														T.	1.00		.10		1.77
Fayette‖‖	Missouri						.38							1.09														1.28				.44	3.19
Fulton	do	.15						.38	.06					.06	.41														.68			.55	2.29
Gorin	Mississippi							.43					.01	.10														T.	.94		.05		1.53
Hannibal***	do						T.	.46			.01	T.	.02	.24		T									T.			.46	.38		.33	.15	2.05
Hermann‖	Missouri	.25						.40				.08	.03	.05	.70														.08	.20		.26	2.05
Jefferson City‖	do	.22						.35	T.				.05	.05	.53	.02													.67			.50	2.39
Kirksville	Mississippi							.65																					1.02		.15	.40	2.22
Louisiana	do							.60				T.	.01	.42					.01										.62		.02	.25	1.93
Macon ‖	Chariton	.07						.44	.04	T.				.32															1.00			.72	2.59
Mexico ‖	Mississippi	.35						.33				.03	T.	.03	.25														.86	.05		.35	2.25
Milan‖	Grand							.60			.26																		1.05				1.91
Monroe City	Mississippi							.36				.02		.23														T.	1.00		.52		2.13
Pacific‖	Meramec	.60						.45				.10	T.	.61	.60	T.	T.												.31			.26	2.93
St. Charles	Missouri							.05				.05		.51																	.20	.10	0.91
St. Louis (1)***	Mississippi						.05	.59			.05	.01	T.	1.19		T.												.01	.23		.10	.08	2.31
St. Louis (2)*	do						.06	.52			.05	.04	T.	1.09		T.													.26		.07	.17	2.26
Shelbina ‖‖	do	.12						.30						.08	.40														1.04			.40	2.34
Steffenville	do	T.	T.					.40	T.		T.	T.	.15	.85											T.			T.	.95		.42		2.77
Union‖	Meramec	.72						.35				.06	.04	.84	.54														.28	.03		.18	3.04
Unionville	Chariton							.70					T.	T.														T.	.85			T.	1.55
Warrenton	Mississippi							.89	T.			T.	T.	.59															.53		T.	.20	2.21
Keokuk, Ia.***	do							.49				T.		.29		T.			T.					T.				.62	.22		.38	.07	2.07
Southeast Lowlands																																	
Benton	Mississippi																																....
Campbell‖	St. Francis							.45			.10	.86	.19	.30															.85		.25		3.00
Cape Girardeau‖	Mississippi	.16						.41	.01			.69	.24	3.22	1.85														.30	.46	.01	.05	7.40
Caruthersville ‖	do																																....
Dexter‖	St. Francis							.45				.64	.25	.43	.65														.48	.42			3.32
Doniphan	Black						T	.25			T.	.25	2.00	2.50																.35	T.		5.35
Jackson	Mississippi							.40			.08	.62	.24	3.59											T.				.74				5.67
Marble Hill	Mississippi						.10				.20	.85	.38	4.12	.20														.91	.12			6.88
Morehouse	do							.39			.02	.64	.43	1.01	.01														.90		.14		3.54
New Madrid‖	do	.22						.33				.65	.38	.04	.60														.23	.60		.10	3.15
Parma	St. Francis																																....
Patton	Mississippi																																....
Poplar Bluff	Black						.35				.85	.20	1.48	1.30															.52	.25			4.95
Sikeston‖	Mississippi	.10									1.00	T.	.25	.30	.69	T.														.20	.65		3.19
Cairo, Ill.***	do						T.	.25			.26	.56	.23	.67		T.													.57		.12	T.	2.66
Ozark Plateau.																																	
Arcadia ‖	St. Francis						.87					.33	.15	1.49	1.32														.20	.18		T.	4.54
Aurora	Neosho							.35						.64		T.												.34	.27		T.	.02	1.62
Birchtree (near)	Black											.23	.34	4.30															.75				5.62
Bolivar	Osage	T.						.32				.04	.03	1.29		.01													.70	.01	.02	.10	2.52
Caplinger Mills	Osage							.24			T.	.06	.03	.45	T.	T.												.11	.49		.02	.14	1.54
Dean	Neosho								T.				T.	1.30	.02													.60	.35			T.	2.27
Eldon‖‖	Missouri	T.						.39	T.			T.	T.	.18															1.32			.55	2.44
Farmington	St. Francis						.07	.36			.16	.24	.18	2.16															.19	.02	.14		3.52
Fredericktown‖‖	do	.24					.56	.30			.52		2.10	.99														.07					4.78
Galena‖‖	White							.35						.90	1.05														.38				2.68
Goodland	Black							.49				.10	.12	1.12															.25		.08		2.16
Greenville	St. Francis																																....
Halley	White	.80							.01			.04			.20					.80					.61							.04	2.50
Koshkonong	Black						.18	.48				.43	.13	5.65															.94	.03			7.84
Lebanon ‖	Osage	T.			.08			.20	T.			.12	.06	.31															.55		T.		1.32
Lockwood	do	T.						T.				T.		1.36		T.													.98		T.		2.34
Mountain Grove‖	White	.11						.63				.03		2.73															.57				4.07
Neosho	Neosho						T.	.20			T.	T.	.08	1.79	T.		T.											.35	.65		T.		3.07
Owensville ‖	Gasconade	.50						.70	.30					.73	.57														.32			.12	3.24
Rolla ‖	Meramec						.30	T.			T.	.10	.82	1.10	T.													.44	.02		.10		2.88
Salem (near)	do						T.	.36	T.			.09	.10	1.50															.25		T.	.05	2.35
Seligman	Neosho							.30			T.	T.	.25	1.11															.64	T.		.12	2.42
Seymour (near)	White						T.	.30			T.	T.	.48	2.19		T.												T.	.48		T.	.04	3.49
Springfield***	do						.10	.09			T	T.	.01	1.25		T.												.37	.02		.03		1.87
Steelville‖	Meramec	1.09						.18				.08	.04	.71	.60														.25			.09	3.04
Stover ‖	Missouri	.21						.41					.02	.21	.33														.96			.18	2.32
Tuscumbia ‖	Osage	.30						.26				.03	.09	.28	.55														.70			.23	2.44
Willow Sprgs. ‖‖ (near)	White	.20						.68				.18	.08	2.10	1.64														.65	.10			5.58
Southwest Plain.																																	
Amoret	Osage							.07				T.	.28	.12														1.17			.10	.30	2.04
Appleton City	do							.25				.05	.01	1.06		T.												.20	.62		.30	.23	2.72
Centerview	Missouri							.42			T.	T.	T.															.25	1.25		.40		2.32
Clinton	Osage							.35			T.			1.07														.33	1.10		.01	.40	3.26
Concordia‖‖	Missouri																												1.90			.31	2.21
Harrisonville‖	Osage	.19							.23					.07	.05														1.04			.71	2.29
Joplin*	Neosho							.25			.14	.08	.35	.45														.90					2.17
Lamar ‖	do	.17						.15	T.			T		.48	.15														1.25			.12	2.32
Lamonte	Missouri							.30				.01		.23		T.												.75	.40		1.75	.25	3.69
Marshall	do					.60						T.	T.	.35		T.												.10	1.20	T.	.30	.50	3.05
Nevada	Osage											T.		1.92														.55	.55		T.	.30	3.32
Osceola‖‖	do	.20										.15	.42	.55	.12														1.07			.40	2.91
Warsaw	do												T.	.75														1.10			.60		2.45
Waverly ‖	Missouri	.06						.43	.03	T.			T.	.06	.04														.92			.72	2.26
Northwest Plateau.																																	
Albany‖‖	Grand							.10						T.															.80			.10	1.00
Bethany	do		T.		T			.10			T.	T.	T.	T.														.20	.65		T.	.20	1.15
Chillicothe ‖‖	do							.20	.07					.04														.02	1.10		T.	.38	1.81
Conception	Missouri						T.	.05	T.		T.	T.												T.				.39	.28		T.		0.72
Edgerton	do							.07	T.	T.	T.		T.	T.		T.												.27	.28		.07		0.69
Gallatin ‖	Grand							T.	.20					T.														T.	.72			.20	1.12
Grant City	do							.05	.02		T.	T.				.08												.17	.36		T.	.10	0.73
Kansas City***	Missouri		T.				.06	.14			T.	.04		.02	T.	T.												.70	.02		.64	.03	1.65
Kidder ‖	Grand							.27						T.														T.	.82			.30	1.39
King City	Missouri																																....
Lexington	do							.20				.02		.10														.75			1.00		2.07
Liberty	do																																....
Maryville ‖	do					T.		.02	.25			T.	T.		T.	T.									T.			T.	.51		T.	.10	0.88
Oregon	do				T.			.11	T.		T.	T.	T.			T.								T.				.20	.31		T.	.07	0.69
St. Joseph***	do				T.		T.	.09			T.	T.		.01		T.								T.				.71	.06		.12		0.99
Tarkio	do				T.			.12																				.03	.32			.05	0.52
Trenton	Grand						T.	.31	T.				T.															.36	.62		.02	.05	1.36

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ‖ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T. Trace, or less than 0.01 inch.
*** Regular U. S Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. ** Precipitation in the next following measurement; separate dates of fall not recorded. * Precipitation is for 24-hour period midnight to midnight.

Daily Temperatures for December, 1927

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Northeast Plain.																																	
Brunswick §§	Maximum	41	31	32	30	46	62	35	14	38	42	32	58	58	50	23	30	19	22	24	40	42	33	24	39	44	57	50	56	47	25	..	ᵃ38.1
	Minimum	18	15	16	24	17	19	31	-3	-2	14	21	21	32	27	16	11	10	6	6	6	10	15	10	12	20	23	22	36	31	23	-3	16.3
Columbia	Minimum	37	28	34	36	45	60	49	12	40	45	40	61	63	49	46	29	24	21	22	36	40	36	33	37	47	50	43	56	54	33	9	39.2
	Maximum	10	15	21	20	19	35	5	0	11	31	26	27	40	32	16	12	14	8	8	13	15	20	14	19	24	26	35	41	33	9	-4	19.2
Fayette	Maximum	40	30	35	36	43	62	35	35	40	44	36	60	58	58	31	32	28	25	22	41	43	38	36	40	41	51	46	51	55	30	26	40.3
	Minimum	2	7	17	20	12	16	32	-4	-4	11	24	23	33	24	15	9	11	4	3	8	7	10	10	13	18	15	21	34	26	23	-5	14.0
Hannibal	Maximum	37	30	34	40	43	60	51	13	37	45	34	59	60	49	48	27	23	20	25	37	42	33	24	29	46	50	42	51	56	31	10	38.3
	Minimum	14	17	22	21	20	30	5	0	9	28	26	27	36	30	15	11	13	7	6	17	19	21	13	20	20	23	35	40	31	10	-5	18.7
Jefferson City §§	Maximum	36	34	40	44	49	60	39	17	40	46	40	65	62	47	23	34	26	24	22	35	39	43	32	46	52	58	48	53	54	33	5	40.2
	Minimum	14	17	18	24	16	19	37	0	1	17	25	27	34	30	22	13	14	9	8	9	15	18	14	17	23	25	30	38	38	28	-2	19.3
Kirksville	Maximum	40	34	30	33	47	57	50	10	34	33	22	47	60	45	44	26	26	21	26	33	43	33	30	30	47	49	41	53	48	29	9	36.5
	Minimum	19	11	15	20	15	25	3	-5	2	20	17	19	43	24	14	5	8	2	0	12	16	15	10	15	21	25	30	33	27	9	-5	15.0
Louisiana	Maximum	46	35	33	43	44	60	65	45	37	44	43	55	63	55	48	28	26	26	22	36	42	46	37	35	46	50	51	47	55	50	27	43.2
	Minimum	16	19	22	25	20	26	10	2	7	25	32	28	32	26	22	12	14	7	7	7	13	17	22	18	15	18	28	36	38	25	0	19.0
Macon§§	Maximum	39	28	34	35	45	61	36	14	35	48	32	59	60	48	32	28	23	20	24	37	41	36	23	35	45	47	51	54	50	24	3	37.0
	Minimum	17	13	15	21	15	20	30	-5	-4	13	21	22	30	25	12	7	9	3	3	5	12	18	10	13	18	27	33	30	35	20	-6	15.5
Mexico§§	Maximum	38	27	46	39	43	61	45	12	38	44	35	62	63	48	25	29	25	21	25	40	43	40	33	34	48	50	46	53	58	30	4	38.9
	Minimum	12	15	16	22	19	21	35	0	0	12	33	28	34	27	24	11	11	7	7	8	15	20	12	13	21	24	29	34	36	26	-1	18.4
St. Louis(1)	Maximum	41	36	38	47	46	57	56	16	35	38	47	63	63	47	48	28	29	24	24	39	41	43	34	36	40	49	47	49	62	43	18	41.4
	Minimum	26	23	24	29	22	36	6	4	10	25	33	33	47	38	21	16	20	12	12	16	27	28	21	19	25	29	30	38	43	18	-1	23.5
Unionville	Maximum	43	38	36	32	48	56	50	8	32	30	20	44	55	46	41	24	23	20	25	36	44	35	28	35	46	48	45	50	45	27	12	36.2
	Minimum	20	10	12	20	16	26	3	-7	0	15	12	16	40	21	12	5	6	1	0	10	16	12	8	12	20	25	35	34	27	8	-5	13.9
Warrenton	Maximum	40	39	36	46	46	59	58	15	37	46	47	60	64	53	48	29	26	24	23	36	43	41	35	36	49	52	46	49	58	56	26	42.7
	Minimum	17	18	19	25	17	31	12	0	6	23	34	29	52	30	21	11	15	8	7	15	19	21	14	18	20	27	27	36	38	25	-1	20.5
Southeast Lowlands.																																	
Campbell	Maximum	42	44	47	52	52	58	61	24	35	50	55	72	74	58	56	36	41	35	29	42	44	47	41	39	46	49	49	52	61	57	48	48.3
	Minimum	28	29	23	25	23	33	21	10	9	27	35	52	56	43	32	20	23	18	14	13	17	20	21	19	20	20	19	38	50	41	7	26.0
Caruthersville	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Doniphan	Maximum	52	46	46	52	51	58	55	40	38	44	50	70	70	55	52	36	38	32	28	42	42	48	46	40	47	46	49	61	61	56	35	47.9
	Minimum	26	25	22	24	23	35	13	8	8	27	35	48	48	42	22	18	18	16	10	12	16	16	12	18	19	21	19	36	39	35	10	23.3
Jackson	Maximum	51	40	39	48	46	55	65	37	34	38	50	64	67	59	56	44	36	34	31	40	41	43	39	38	44	48	48	49	59	57	45	46.6
	Minimum	24	25	20	22	20	23	21	6	7	25	31	37	53	43	25	16	18	14	11	11	15	15	21	18	17	16	17	31	45	32	4	22.0
Poplar Bluff	Maximum	47	52	53	59	50	59	61	27	38	37	52	67	70	58	56	40	43	36	35	49	49	53	45	45	52	52	51	51	64	57	37	49.8
	Minimum	24	24	20	22	20	29	23	7	6	26	32	46	57	41	29	11	18	13	9	10	14	15	17	17	17	18	16	32	47	36	11	22.8
Sikeston	Maximum	67	41	40	45	47	48	57	63	22	35	46	60	67	72	57	59	35	37	30	25	40	41	43	39	40	44	47	49	53	60	54	47.2
	Minimum	28	28	22	23	26	26	46	10	10	13	33	44	56	45	47	20	20	19	15	14	16	22	22	18	19	21	23	24	38	45	15	26.1
Cairo, Ill.	Maximum	41	39	45	48	47	57	62	21	32	43	55	66	72	59	56	33	37	30	24	39	42	41	39	39	44	47	51	53	60	54	35	45.5
	Minimum	30	29	25	29	29	42	12	11	13	29	43	55	53	48	26	21	26	20	16	16	23	26	25	21	27	28	31	40	52	35	2	28.5
Ozark Plateau.																																	
Arcadia§§	Maximum	41	42	44	56	49	54	56	19	33	39	49	65	60	53	47	33	32	29	26	40	45	44	37	40	47	49	49	50	60	40	9	43.1
	Minimum	20	19	18	18	17	17	42	3	3	9	29	36	39	40	39	14	14	12	10	10	14	13	15	15	13	14	16	23	38	37	5	19.7
Aurora	Maximum	43	45	49	44	37	56	51	15	40	44	49	66	64	53	47	38	33	25	25	36	43	43	42	46	45	51	44	62	64	52	29	44.5
	Minimum	20	23	27	22	20	35	7	0	10	31	37	35	49	37	16	14	21	10	10	12	18	21	16	25	27	26	30	38	34	22	-3	22.3
Birchtree	Maximum	50	45	47	56	59	60	45	19	45	48	51	65	65	52	50	39	33	29	32	39	42	47	42	41	47	49	50	49	61	50	33	46.5
	Minimum	22	22	19	21	35	38	14	4	6	30	42	49	52	40	23	14	14	13	10	15	15	18	15	12	16	20	21	38	45	33	5	23.3
Eldon §§	Maximum	44	35	45	45	47	61	43	23	41	47	39	65	61	..	47	32	21	22	38	39	43	43	33	43	51	54	47	58	62	29	1	ᵃ42.0
	Minimum	15	15	20	20	15	17	42	1	1	12	29	28	34	33	..	13	13	9	8	8	14	14	15	15	21	22	27	36	35	28	1	ᵃ18.7
Farmington	Maximum	44	40	46	54	47	54	59	18	37	35	51	62	64	51	45	31	32	28	24	37	41	45	35	37	43	52	48	44	60	58	31	43 6
	Minimum	22	24	18	23	16	32	18	3	4	27	32	35	51	41	22	14	20	12	9	15	18	19	21	19	16	18	23	39	43	31	0	22.1
Koshkonong	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Lebanon§§	Maximum	45	37	48	48	48	59	36	17	39	44	51	68	63	53	25	33	28	24	27	37	43	43	33	44	48	52	48	54	63	34	12	42.1
	Minimum	15	17	20	23	16	16	19	-3	-3	12	35	35	39	33	20	10	10	7	4	4	9	12	13	13	21	23	24	34	36	28	-3	17.4
Mountain Grove §§	Maximum	46	47	49	55	42	60	37	20	38	45	54	66	65	55	34	37	34	27	29	41	45	42	42	49	53	51	46	51	61	40	9	44.2
	Minimum	18	20	21	21	20	28	35	-1	0	12	33	40	42	37	27	11	12	9	7	7	13	14	15	15	21	22	26	31	39	34	1	20.3
Neosho	Maximum	41	43	51	52	44	54	53	15	36	42	43	65	69	55	23	36	27	27	25	32	38	39	40	45	45	47	47	60	59	58	26	43.1
	Minimum	16	18	23	24	19	38	9	1	7	31	33	33	50	37	15	12	21	10	5	6	14	16	11	19	22	19	27	40	33	25	-3	20.4
Rolla	Maximum	42	40	48	49	49	61	52	15	38	44	50	65	64	52	50	32	30	37	27	39	42	42	39	43	49	50	45	49	61	55	27	44.7
	Minimum	20	22	21	26	17	38	9	1	8	29	35	32	51	37	20	13	17	10	9	12	17	20	18	21	18	27	31	39	42	27	-2	22.1
Springfield	Maximum	43	42	47	46	45	56	51	13	39	41	49	65	62	51	48	35	31	22	24	35	40	41	41	45	44	47	41	59	60	47	10	42.7
	Minimum	23	24	27	27	23	41	6	-1	11	32	34	37	46	38	15	14	18	10	8	14	22	27	21	27	30	32	34	41	43	10	-4	23.5
Southwest Plain.																																	
Amoret	Maximum	44	38	54	38	48	63	54	15	40	41	28	48	62	57	45	37	38	28	28	39	41	41	42	48	47	53	42	56	58	36	30	43 2
	Minimum	10	28	28	20	12	31	7	0	6	26	20	22	48	45	10	5	15	5	5	5	5	17	10	19	17	17	28	36	27	26	-7	17.5
Appleton City	Maximum	43	35	50	45	43	60	54	16	40	45	33	55	62	55	50	35	30	24	27	38	38	43	33	40	41	50	42	55	55	45	15	41.8
	Minimum	12	19	23	27	17	32	7	-2	9	27	24	25	50	34	13	10	16	7	7	10	13	21	15	21	23	26	34	36	33	14	-6	19.3
Centerview	Maximum	32	31	30	29	38	42	28	14	28	34	32	42	56	52	31	34	24	23	27	27	30	35	35	36	45	36	42	52	50	20	12	33.8
	Minimum	22	16	23	22	15	28	9	-2	10	24	19	30	48	31	12	9	14	6	6	9	18	24	11	18	19	22	25	36	20	12	-6	17.7
Clinton	Maximum	39	35	47	45	43	61	55	15	43	46	35	56	59	55	45	33	31	24	25	36	39	35	36	41	42	52	43	52	54	42	17	41.3
	Minimum	16	17	21	28	25	33	10	0	12	30	25	25	29	35	20	12	13	9	9	12	14	16	17	23	22	33	30	36	35	16	-5	19.9
Harrisonville§§	Maximum	43	33	45	32	47	60	15	16	39	43	31	60	57	50	25	35	28	26	27	39	44	40	33	40	45	52	48	58	52	24	7	38.5
	Minimum	17	15	15	22	14	16	14	-5	-5	15	18	20	29	29	9	7	7	3	4	4	10	14	10	11	21	24	28	35	33	22	-9	11.4
Lamar§§	Maximum	43	42	54	36	49	60	21	18	41	45	37	64	61	59	26	37	29	26	28	38	39	44	39	48	48	51	50	56	61	30	6	41.5
	Minimum	20	20	24	28	20	22	19	1	1	17	28	27	37	31	18	15	17	10	10	10	10	18	16	17	26	25	24	38	36	28	-3	19.8
Lamonte	Maximum	49	30	40	39	43	62	54	13	40	44	28	56	60	55	46	32	29	22	23	38	43	35	33	40	46	53	41	56	50	33	11	40.1
	Minimum	3	14	16	19	13	30	3	-3	6	26	21	24	39	27	13	10	12	5	5	8	11	18	8	18	20	22	32	38	31	9	-7	15.8
Marshall	Maximum	41	31	36	35	45	63	55	10	35	45	35	53	60	50	45	29	28	21	22	36	43	33	29	39	51	60	43	61	50	42	13	40.0
	Minimum	10	15	20	23	15	28	10	-2	4	22	21	23	48	26	15	9	12	5	5	9	10	11	18	16	17	20	30	36	32	13	-5	16.6
Nevada	Maximum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
	Minimum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
Warsaw	Maximum	50	45	51	51	47	65	58	20	40	47	48	64	69	62	56	35	37	33	28	30	51	47	44	45	52	53	63	60	51	29	19	46.8
	Minimum	9	19	23	26	17	30	9	0	8	20	28	27	53	37	10	14	17	9	10	12	22	19	18	20	17	31	38	25	16	11	-3	19.1
Northwest Plateau.																																	
Chillicothe §§	Maximum	41	31	39	28	50	60	24	14	38	34	30	58	56	50	24	30	23	22	26	39	44	33	20	38	50	51	56	55	41	20	1	36.3
	Minimum	16	12	12	22	15	18	23	-6	-6	12	16	16	28	23	13	7	6	2	2	2	6	10	10	12	18	24	27	35	31	18	-7	13.5
Grant City	Maximum	42	33	36	34	46	50	41	8	26	24	18	45	52	46	42	26	21	19	26	36	41	32	23	32	48	45	41	48	42	24	8	34.0
	Minimum	18	9	14	13	15	30	1	-10	-1	9	9	11	38	22	6	4	6	0	0	6	13	13	9	15	23	32	35	38	24	2	-8	12.8
Kansas City	Maximum	45	31	44	40	49	61	39	13	37	42	24	57	60	49	24	34	25	22	25	37	41	33	26	40	49	50	44	54	46	26	2	37.7
	Minimum	26	15	22	21	23	37	1	-3	12	16	17	23	36	24	9	10	12	5	7	17	23	20	13	17	35	35	38	40	26	2	-5	18.5
Kidder§§	Maximum	41	28	38	29	47	56	20	12	33	30	28	56	55	45	20	28	21	20	25	35	40	32	20	36	50	48	45	51	38	20	1	33.8
	Minimum	18	11	10	16	14	26	16	-8	-8	10	13	14	26	24	8	5	5	0	0	0	7	12	10	10	18	23	22	34	32	16	-8	12 1
Lexington	Maximum	43	35	39	39	47	61	55	20	37	41	24	48	60	53	46	31	28	24	27	35	43	34	27	42	49	51	42	56	50	34	12	39.8
	Minimum	31	15	20	22	25	34	6	-3	7	23	19	22	46	28	12	10	13	5	5	11	17	23	11	15	24	26	36	36	33	11	-6	18.6
Maryville	Maximum	44	36	35	36	49	54	46	11	33	28	20	47	53	47	42	29	22	20	26	39	45	29	25	34	38	38	39	51	40	27	7	34.8
	Minimum	18	10	16	13	15	29	-1	-10	0	10	9	14	41	25	6	3	2	0	0	7	13	13	6	15	20	24	37	37	23	7	-8	12.7
Oregon	Maximum	45	38	37	40	51	54	48	12	35	29	23	50	55	45	43	33	26	22	28	40	45	31	24	41	51	51	44	53	46	26	8	37.9
	Minimum	21	14	19	14	12	35	1	-8	5	9	9	12	39	27	7	6	10	1	2	11	11	12	10	17	25	26	37	37	24	7	-8	14.3
St. Joseph	Maximum	44	29	39	38	50	57	31	12	35	31	20	52	57	46	20	32	21	20	24	36	42	32	20	38	50	50	44	53	41	24	1	35.1
	Minimum	22	15	21	17	22	31	-2	-6	12	13	12	20	34	20	9	8	10	4	5	10	17	17	11	18	27	28	37	41	24	1	-7	15.8
Trenton	Maximum	42	39	32	30	48	55	52	9	31	31	20	54	48	42	34	25	23	21	21	31	31	30	21	35	42	45	40	48	42	28	9	34.2
	Minimum	18	11	15	19	19	28	6	5	3	16	15	19	36	21	10	6	-5	2	3	10	14	15	10	18	24	28	34	35	28	9	-5	15.1

ᵃ, ᵇ, ᶜ, etc., indicate respectively 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, St. Louis, 1-24-28—915.

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MISSOURI SECTION.

GEORGE REEDER, Meteorologist.

Vol. XXXI. Columbia, Mo., Year, 1927. No. 13.

GENERAL SUMMARY.

For the State of Missouri, as a whole, the year 1927 was slightly warmer than normal, the annual mean temperature being 55.5°, but with 53.86 inches, it was the wettest on record of 60 years, the year previously holding the record for wetness being 1898, with 53.67 inches. It also was a year unprecedented in the number of damaging storms, and the severity and extent of territory affected. In addition to the foregoing, the year 1927 will long be remembered for its disastrous floods, and especially in the southeastern lowlands.

Eleven tornadoes killed 174 persons, injured 870 others, and caused property damage approximating $25,000,000, about $23,000,000 occurring in St. Louis City alone. Thirteen severe hailstorms caused more than $1,000,000 property damage other than crops, and approximately $500,000 to growing crops. Destructive winds, other than true tornadic winds, resulted in another $1,136,500 in damage and loss. A grand total exceeding $28,000,000, when we include some other items in a summarized table on page 58.

February, March, and April, September, October, and November were warmer than normal. January and May averaged about normal. June, July, August, and December were colder than normal. All months were wetter than normal, except February and September. October's wetness was largely confined to the first three days. February was the warmest in 40 years. A late April frost was severely damaging to the fruit crop. The rains were excessive from about the middle of March to the middle of June, with only short intervals of favorable weather. May was unusually stormy. The summer, June, July, and August, was distinctly cool. The autumn was quite ideal and just the kind of weather needed for late crops.

In spite of the fact that at the end of June the planting season was the most delayed in 40 years, possibly with the exception of 1896; and in spite of other harmful weather conditions enumerated in the foregoing, nearly all crops fully matured to good yields. This was largely brought about, however, by the persistent favorable weather of September and October, September alone furnishing nearly as many real hot days as the preceding three months combined, and the long growing season that did not end until November 6, being from 10 to 20 days longer than the average.

Temperature.—The annual mean for the State was 55.5°, or 0.7° above the normal. The highest annual mean was 59.9°, at Koshkonong, Oregon County. The lowest annual mean was 51.6°, at Tarkio, Atchison County The highest temperature was 102°, at Marshall, Saline County, Sept. 17th. The lowest was −24°, at Chillicothe, Livingston County, Jan. 15. The annual range for the State was 126°.

Precipitation.—The annual fall was 53.86 inches, or 14.99 inches more than normal. The greatest local annual amount was 82.67 inches, at Morehouse, New Madrid County, 36 inches more than normal. The least annual amount was 30.71 inches, at Tarkio, Atchison County, about 4 inches more than normal. The seasonal snowfall was 13 inches, about as follows: 14 inches in the northwest section, 17 in the northeast, 7 in the southeast, 9 in the Ozark hills, and 18 inches in the southwest section. The greatest local annual fall was 28 inches, at Lamonte, Pettis County.

THE WEATHER BY MONTHS.

January.—The first 10 or 12 days were relatively mild and dry. The remainder of the month, save the last four days, was mainly cold and wet, the pleasant first part of the month being abruptly changed by a widespread and severe cold wave on the 14th and 15th. Subzero temperatures were general, the minimum being −24°, and the lowest since 1924. The snowfall was less than normal. Damaging floods, sleet and glaze occurred in the extreme southeast counties 18th to the 23d. Winter wheat was mostly dormant. The cold weather prevented premature fruit bud swelling. There was some local damage.

February.—Unusual and persistent warmth, and not more than one-half the normal precipitation. The warmest February in 40 years. Two rather heavy snows occurred, one on the 9th and the other near the end of the month. Some local blockading of traffic occurred. The weather was favorable for winter grains and outdoor work. It was too warm for fruit trees and caused premature swelling of the buds. Much plowing was done, and oats and clover sown. Winter wheat looked well.

March.—This month was also very mild, and besides it was notable for excessive precipitation, frequent thunderstorms, and much hail. There was very little snow. Winter wheat was damaged in the lower lands by high water. All grains responded quickly to the warmth and moisture. The main highways were damaged by water. The farm roads were impassable; and the wet weather rather adversely affected general business. There was no farm work after the tenth.

April.—The wettest April in 60 years, and only a few in past years were warmer. There was only one cool spell and it prevailed from about the 20th to the 25th. It was attended by general frost and freeze and resulted in severe damage to most tree and bush fruits, and early gardens, and to some early planted corn. Thousands of acres of valuable river bottom lands were submerged for relatively long periods. Farm work was at a standstill. The State Highway workers were much handicapped by the continuous rains; and railroads had quite frequent delays by washouts. Farmers had to take to horseback and horse-drawn vehicles to get to the main highways. Wind and hail caused much damage over considerable areas.

May.—A month to be remembered for excessive cloudiness and precipitation, severe river floods, destructive winds and hail, and consequent heavy loss in property as well as lives. The lack of sunshine made the month unpleasant from the side of personal comfort, and the constant necessity for furnace warmth brought forth frequent public remarks that the month was more like March than May. Most unfavorable for farm work, and all vegetation, save grasses. Not more than 60 per cent of corn had been planted at the end of the month. The most backward season in many years.

June.—A very cool month, and wet up to about the 20th, when rains abruptly ceased. The last ten days were bright and warm, the first real touch of summer. Field work made advance during the last 8 or 10 days, but the season was fully three weeks behind. Much corn was just coming up and some being planted. Small grains were injured by the wet weather, as well as nearly all fruits that escaped the April freeze. Some severe local hail and wind damage.

July.—Cooler than normal but the rainfall, sunshine, and winds approximated the usual for July. An ideal summer month from the physiological side; and the most favorable for crop growth since the opening of the season. The unusual backward condition of the corn crop was largely overcome. Wheat, oats, and hay harvest was completed under especially

(Continued on Page 58.)

Climatological data for Year, 1927

Stations	Counties	Elevation, feet	Temperature (Degrees Fahrenheit)						Precipitation (inches)							Number of days				Prevailing direction of wind
			Length of record, yrs.	Annual mean	Highest	Date	Lowest	Date	Length of record, yrs.	Total	Greatest monthly	Month	Least monthly	Month	Total snowfall	With precip. .01 inch or more	Clear	Partly cloudy	Cloudy	
Northeast Plain.																				
Brunswick	Chariton	652	49	54.7	100	Sept. 17	-15	Jan. 15	49	46.20	8.69	April	0.92	Jan.	16.0	118	180	20	165	se.
Clifton Hill	Randolph	731	29	53.4	98	" 15†	-22	" 15	19	44.26	6.97	May	1.03	"	22.2	104	134	110	121	......
Columbia	Boone	784	38	54.8	96	" 17	-8	" 15	38	49.70	7.65	Mar.	0.57	Feb.	21.6	117	133	98	134	s.
Downing	Schuyler	878	7	....	101	" 17	-14	" 15	19	40.02	8.51	Oct.	0.40	Jan.	11.2	81	175	86	104	sw.
Fayette	Howard	661	48	53.5	99	" 15†	-14	" 15	45	50.89	7.20	Mar.	0.67	Feb.	19.1	....	....	....	....	......
Fulton	Callaway	818	39	54.4	97	" 14†	-8	" 15	36	53.66	9.10	May	0.48	"	25.0	126	159	122	84	......
Gorin	Scotland	700	..	....	....	....	....	....	41	44.88	10.29	Oct.	0.90	Jan.	10.3	93	108	101	156	sw.
Hannibal	Marion	534	36	54.0	96	Sept. 17	-16	Jan. 15	44	43.21	6.87	Mar.	1.43	Feb.	25.2	132	134	93	138	sw.
Jefferson City	Cole	557	40	55.5	99	" 17	-5	" 15	44	55.14	8.24	"	0.49	"	21.5	115	205	38	122	s.
Kirksville	Adair	969	39	52.5	97	" 17	-19	" 15	46	44.29	10.59	Oct.	0.62	Jan.	14.7	80	187	45	132	nw.
Louisiana	Pike	469	34	55.5	98	" 13	-22	" 15	47	52.64	8.94	April	0.84	Feb.	15.7	108	208	50	107	w
Macon	Macon	875	29	53.1	98	" 12†	-16	" 15	35	43.95	7.85	May	0.96	"	20.1	102	175	91	99	se.
Mexico	Audrain	800	39	55.2	101	" 16	-12	" 15	50	51.26	8.07	"	0.68	"	16.0	111	226	8	131	w.
St. Charles	St. Charles	456	40	56.5	101	" 13	-8	" 15	50	49.86	9.33	"	0.22	"	9.5	88	135	103	127	s.
St. Louis (1)	St. Louis City	717	54	57.0	98	" 16	-3	" 15	91	50.83	9.21	"	0.56	"	10.1	115	139	88	138	s.
St. Louis (2)	......do	578	16	56.3	96	" 15	-3	" 15	16	51.26	9.82	"	0.62	"	7.2	110	157	83	125	se.
Shelbina	Shelby	779	..	....	....	....	....	....	35	41.29	6.53	April	0.84	Jan.	19.0	....	....	....	....	......
Steffenville	Lewis	650	30	53.9	99	Sept. 11†	-21	Jan. 15	35	41.96	7.61	"	1.09	"	20.0	92	162	111	89	s.
Unionville	Putnam	1,062	35	52.1	98	" 15†	-16	" 15	35	39.51	6.65	"	0.68	"	18.5	76	131	107	127	sw.
Warrenton	Warren	816	46	56.1	98	" 12†	-12	" 15	38	51.07	7.75	Mar.	0.59	Feb.	13.5	97	145	109	111	nw.
Keokuk, Iowa	Lee, Iowa	574	56	52.9	96	" 17	-12	" 15	56	37.30	6.61	June	1.10	Jan.	21.4	105	105	121	139	s
Section means and	extremes	....	..	54.5	101	Sept. 13†	-22	Jan. 15	..	46.82	10.59	Oct.	0.22	Feb.	17.0	104	158	83	124	s.
Southeast Lowlands.																				
Campbell	Dunklin	314	2	59.7	98	Sept. 12†	3	Jan. 15	2	71.25	10.73	April	2.43	Feb.	3.2	108	150	109	106	s.
Doniphan	Ripley	344	24	58.7	98	July 12†	1	" 15	24	75.24	14.63	"	2.10	"	3.5	94	149	125	91	sw.
Jackson	Cape Girardeau.	428	37	57.5	99	July 10†	-3	" 15	38	66.22	10.44	"	1.13	"	11.2	116	101	56	208	n.
Marble Hill	Bollinger	470	33	58.4	99	Sept. 16†	-2	" 15	34	71.93	13.47	"	1.37	"	16.0	93	161	87	115	n.
Morehouse	New Madrid	289	..	....	..	....	....	....	7	82.67	13.67	"	1.77	"	4.4	113	184	92	89	sw.
Poplar Bluff	Butler	339	24	59.4	101	Sept. 16†	0	Jan. 15	24	77.76	13.10	May	1.58	Oct.	6.0	107	207	70	88	s.
Sikeston	Scott	318	22	58.9	101	July 10†	1	" 15	27	80.71	13.87	April	1.03	Feb.	6.0	106	171	73	121	sw.
Cairo, Ill.	Alexander, Ill.	359	53	59.6	96	Sept. 14	1	" 15	56	64.14	10.18	May	1.36	"	4.5	119	104	91	170	n.
Section means and	extremes	....	..	58.9	101	July 10†	-3	Jan. 15	..	63.41	14.63	April	1.03	Feb.	6.8	107	153	88	124	sw.
Ozark Plateau.																				
Arcadia	Iron	926	47	53.9	95	Sept. 16†	-3	Jan. 15†	50	56.96	10.63	April	0.54	Feb.	6.2	103	250	12	103	s.
Aurora	Lawrence	1,370	27	57.6	96	July 10	-3	Dec. 31	38	69.86	11.05	Aug.	0.99	"	5.4	99	163	98	104	sw.
Birchtree (near)	Shannon	1,000	33	57.8	96	July 11	-2	Jan. 15	34	69.14	10.98	April	1.03	"	3.0	96	190^{a}	58^{a}	116^{a}	ne.
Dean	McDonald	1,000	25	....	98	July 10	-2	Dec. 31	29	63.51	10.99	June	0.82	"	6.5	....	....	....	....	e.
Eldon	Miller	934	32	55.6	96	" 10	-5	Jan. 15	28	56.05	9.34	Mar.	0.91	"	6.0	110	125^{b}	126^{b}	100^{b}	sw.
Farmington	St. Francis	918	17	56.3	99	July 11	-4	" 15	31	55.37	11.11	April	0.97	"	8.5	119	125	150	90	sw.
Goodland	Iron	1,000	34	56.1	99	Sept. 17	-4	" 15	35	50.45	11.73	May	0.64	"	15.2	82	161	92	112	s.
Hailey	Barry	1,350	..	....	..	....	....	....	3	61.01	9.39	"	0.85	"	13.2	86	218^{c}	55^{e}	87^{e}	sw.
Koshkonong	Oregon	958	27	59.9	98	Sept. 13	0	Jan. 15	27	69.17	13.70	April	1.59	Oct.	5.0	105	167^{f}	64^{f}	128^{f}	sw.
Lebanon	Laclede	1,265	40	54.9	96	July 12	-4	" 15†	41	74.20	12.39	Aug.	0.78	Feb.	7.5	114	164^{a}	89^{a}	111^{a}	se.
Lockwood	Dade	1,078	22	55.8	94	" 10	-4	Dec. 31	..	65.58	11.13	"	0.73	"	11.7	79	211	50	104	sw.
Mountain Grove	Wright	1,463	27	56.5	97	" 10	-2	Jan. 15	29	72.88	9.88	April	0.96	"	8.0	116	154	114	97	se.
Neosho	Newton	1,011	40	57.7	94	July 10†	-3	Dec. 31	45	62.41	9.03	June	0.93	"	13.2	103	227	61	77	sw.
Rolla	Phelps	1,099	28	57.3	99	June 29	-4	Jan. 15	44	58.55	9.35	May	1.19	"	14.4	106	170	94	101	s
Salem (near)	Dent	1,173	24	56.2	96	July 11	-5	" 15	27	60.34	10.79	"	0.93	"	13.2	108	158	98	109	s.
Seligman	Barry	1,542	15	57.8	94	" 10†	-2	Dec. 8	25	62.99	9.83	April	2.33	"	13.0	106	169	99^{o}	82^{o}	sw.
Seymour	Webster	1,642	22	55.8	92	Sept. 11†	-3	Jan. 15†	22	63.98	9.48	"	0.93	"	7.1	102	171	101	93	s.
Springfield	Greene	1,350	40	56.7	92	July 10	-4	Dec. 31	40	62.45	9.65	"	0.79	"	10.2	122	202	88	75	s.
Section means and	extremes	....	..	56.6	99	June 29†	-5	Jan. 15	..	63.05	13.70	April	0.54	Feb.	9.3	103	179	86	100	sw.
Southwest Plain.																				
Appleton City	St. Clair	853	34	56.4	94	June 25†	-6	Jan. 15†	36	54.71	8.45	May	0.36	Feb.	13.7	110	107	195	63	sw.
Centerview	Johnson	872	41	54.8	98	July 10†	-12	" 15	48	50.94	10.69	Mar.	0.93	"	12.0	96	165^{y}	91^{y}	85^{y}	sw.
Clinton	Henry	765	35	....	100	July 10	-5	Dec. 31	41	56.51	8.39	"	0.79	"	18.3	102	128^{e}	150^{e}	82^{e}	sw.
Harrisonville	Cass	904	51	53.7	98	" 10	-12	Jan. 15	53	52.01	8.19	Oct.	0.76	"	21.3	109	92	41	232	s.
Lamar	Barton	980	41	56.6	99	" 10	-3	Dec. 31	47	67.92	13.87	Aug.	0.67	"	15.0	93	177	88	100	sw.
Lamonte	Pettis	867	27	55.5	100	Sept. 17	-14	Jan. 15	41	59.41	10.04	Mar.	1.24	"	28.5	112	196	105	64	se.
Marshall	Saline	779	39	....	102	" 17	-17	" 15	39	49.45	8.69	May	1.02	"	23.5	100	....	....	....	nw.
Nevada	Vernon	862	35	57.0	98	July 10	-3	" 15	36	57.28	13.51	Aug.	0.37	"	13.5	69	287	82	96	sw.
Warsaw	Benton	687	28	57.5	98	July 10†	-9	" 15	33	57.57	10.75	Mar.	0.50	"	18.0	78	188	102	75	w.
Section means and	extremes	....	..	55.9	102	Sept. 17	-17	Jan. 15	..	56.06	13.87	Aug.	0.36	Feb.	18.8	100	152	112	101	sw.
Northwest Plateau.																				
Bethany	Harrison	916	35	52.8	97	Sept. 15†	-21	Jan. 15	35	35.31	6.76	April	0.36	Jan.	11.0	84	141^{b}	101^{b}	115^{b}	nw
Chillicothe	Livingston	779	19	52.7	98	" 15†	-24	" 15	22	45.57	10.19	Oct.	0.78	"	17.2	100	173	97	95	nw.
Conception	Nodaway	980	39	52.9	98	July 27†	-11	" 15†	44	35.58	6.27	"	0.40	"	13.0	77	137	119	109	sw.
Edgerton	Platte	856	8	53.4	96	" 10	-23	" 15	16	32.61	5.25	April	0.39	"	12.0	98	207^{e}	47^{e}	106^{e}	s.
Grant City	Worth	1,134	24	51.9	97	July 11	-14	" 15	36	34.94	6.82	"	0.28	Nov.	13.7	84	173	120	72	sw.
Kansas City	Jackson	963	39	55.4	95	" 16	-5	Dec. 31	39	43.95	6.27	"	0.85	Feb.	21.3	118	140	119	106	s.
Kidder	Caldwell	1,020	35	50.5	96	Sept. 17	-15	Jan. 15	40	40.86	9.41	"	0.60	Jan.	13.7	97	166	54	145	nw.
Lexington	Lafayette	688	43	55.8	98	" 17	-15	" 15	46	48.60	9.26	"	0.96	Feb.	19.4	112	163	113	89	s.
Maryville	Nodaway	1,036	38	52.7	97	" 17	-10	Dec. 8	34	33.11	7.81	"	0.22	Jan.	11.9	86	217	16	132	s.
Oregon	Holt	1,048	72	54.8	98	" 15	-8	" 8	72	39.28	6.16	"	0.35	"	14.8	90	195	92	78	sw.
St. Joseph	Buchanan	967	20	54.3	96	July 6	-7	" 31	56	37.73	6.64	"	0.58	Nov.	12.0	109	184	90	91	se.
Tarkio	Atchison	916	25	51.6	97	" 6	-11	Jan. 15	35	30.71	5.47	"	0.06	"	15.5	72	153	89	123	se.
Trenton	Grundy	822	32	55.2	97	Sept. 17	-14	" 15	33	40.39	6.74	June	0.86	Jan.	8.8	93	164	102	99	s.
Section means and	extremes	....	..	53.4	98	July 27†	-24	Jan. 15	..	38.36	10.19	Oct.	0.06	Nov.	14.2	94	171	89	105	s.
State means and	extremes	....	..	55.5	102	Sept. 17	-24	Jan. 15	..	53.86	14.63	April	0.06	Nov.	12.7	97	163	91	111	sw.

† Also on other dates.

a, b, c, indicate the number of days missing from records, a, 1; b, 2; c, 3; etc.

SUMMARY—*Continued from Page 54.*

favorable skies. Plowing for fall seeding was well advanced much ahead of the same work last year. There were a few local hail and wind storms.

AUGUST.—Distinctly a cool summer month. About 5° cooler than normal and about 2° warmer than a normal September. It also was the sixth consecutive month wetter than normal. It was not as cool on the average as the same month in 1915, but it was the second August in 40 years during which the value 100° was not recorded in some part of the State. Corn made slow advance, and full and good maturity depends much upon favorable weather in September and October. There was some local flood damage but no hail or strong winds.

SEPTEMBER.—A month of varied and unusual weather, though largely favorable. There was much bright sunshine and persistent heat the first 20 days, when September undertook to remedy, to a large extent, the harm that the preceding so-called summer months had done the State's principal crops. There was an abrupt change to nearly winter, light freeze and frost being general on the 21st, and 22d. As a climax the month closed with general rains and storms of marked intensity. On the other hand September was the first month since April to furnish more than normal warmth. There were 13 days with temperature 90° or higher. June, July, and August gave a combined total of 19, 11 occurring in July.

OCTOBER.—In nearly every respect an ideal crop maturing month and just the weather needed. The warmest October on record. The rainfall was excessive the first three days, the storm extending over from September. Fine weather followed and persisted to nearly the end of the month. There was no hail or wind damage. Winter wheat sowing was completed in fine shape.

NOVEMBER.—Averaged cloudy, warm, and rather wet. The first general killing frost and freeze occurred on the 6th, about 20 days later than the average, giving a growing season of about 197 days, 12 days longer than the average. Corn husking as well as other outdoor occupations were interrupted by the rainy spells. The wheat crop was well rooted and in good winter condition.

DECEMBER.—Mainly cold, but much fine open weather. Two cold waves were the outstanding features, the first about the 7th, and other at the end of the month, the latter being attended by high wind and heavy snow. There was considerable highway traffic trouble, caused by snow drifts. The seasonal farm work was well in hand. Winter wheat was covered with snow during lowest temperatures.

SUMMARY OF APPROXIMATE STORM DAMAGE IN MISSOURI, 1927.

JANUARY.—Heavy continued rains from the 18th to the 24th over the extreme southeast part of Missouri, followed by severe sleet and glaze caused much loss and suffering. Owing to the season the loss and damage could be only partly estimated ----- $70,000

FEBRUARY.—A heavy snowstorm on the 9th, and again on the 27-28th, the latter being confined mostly to the western part of the State, caused expense and stoppage to traffic ----- $5,000

MARCH.—Hail fell on ten days and was widespread, although not on any one day. In some instances the stones were as large as black walnuts. Damage put at ----- $3,200

APRIL.—Hailstorms were numerous. Over the northern half of the State, both hail and wind caused much loss ----- $10,500
Two tornadoes occurred on the 19th. One traveled from Boone County to Audrain. Damage and loss about ----- $60,000
The other developed in Lincoln County, thence over the Mississippi River into Illinois. Loss about ----- $18,500

MAY.—An unusually stormy month. Besides many hailstorms, floods, and excessive rainfall, there were five tornadoes, two being unusually severe. Loss by hail ----- $1,478,000
By tornadoes and other winds ----- $3,800,000

JUNE.—On the 3d severe hail occurred over the northern section, preceded or attended by high winds, especially in Linn and Marion Counties. Damage by wind ----- $56,000
By hail, stones averaging one-half inch, diameter ----- $100,000
On the 19th severe wind and hail in the vicinity of Joplin, Jasper County. Damage by wind ----- $8,000
By hail, some large stones ----- $2,000

JULY.—On the 6th and again on the 24th hail damaged crops in Nodaway County to the extent of ----- $75,000
On the 6th there was wind damage in the City of St. Louis ----- $16,000
On the 13th hail damage crops in Gentry County ----- $30,000
On the 28th a small tornado passed through a part of Kansas City, Mo., damaging property to the extent of ----- $25,000

AUGUST—Excessive rains on the 14th and on the 16th caused the smaller rivers and creeks of the southwest part of the State to overflow the lowlands, resulting in much crop damage, estimated about ----- $20,000

SEPTEMBER.—On the 5th a local high wind did some damage in St. Louis County, on the Florissant Road ----- $700
On the 29th small tornadoes damage property in Ripley, Butler, and Linn Counties. Loss to buildings ----- $15,700
To crops, breaking fruit trees, etc ----- $1,000
The most disastrous tornado for many years struck St. Louis City at 1:05 p. m. the 29th. Loss ----- $22,000,000

OCTOBER.—On the 2d and 3d damaging winds occurred in parts of McDonald and Newton Counties. Loss to buildings ----- $4,000
To crops, hay ricks and corn shocks ----- $1,000

NOVEMBER.—On the 1st, severe hail and high wind caused damage at Columbia, Mo. Destruction by hail to roofs, glass, and automobiles ----- $6,000
By wind to roofs, chimneys and trees ----- $1,000
In Webster County near Seymour, by hail ----- $800
On the 15th near Willow Springs, Howell County, wind damage ----- $500
To crops by wind ----- $200

Grand Total ----- $28,483,100

Evaporation Table, Columbia, Mo.

Station No. 1* (Weather Bureau)	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Season
Total evaporation	3.508	3.881	4.358	5.646	3.720	3.073	2.238	......	26.424
Total precipitation	6.98	6.68	6.11	2.64	5.44	2.02	5.44	......	35.31
Total wind movement	1,685	903	623	463	407	383	618	......	5,082
Mean temperature	56.8	63.2	69.5	74.8	70.0	70.9	60.6	......	66.5

* Observations taken at 6:45 a. m.

NOTE:—As evaporation records have been made ten years, long enough to meet needs, Station No. 2 (Mo. Experimental Farm) was discontinued at the close of 1926 season, and Station No. 1 (Weather Bureau) at the close of 1927 season. Data are published in Annual Climatological Summaries 1917 to 1927, inclusive.

Monthly Data of the State for 1927

Month	Temperature				Precipitation				
	Mean	Departure from Normal	Maximum	Minimum	Mean	Departure from Normal	Greatest	Least	No. Days with .01 or more
January	30.8	+ 0.4	73	−24	3.05	+1.02	9.99	0.22	6
February	41.3	+ 9.5	78	1	1.08	−1.07	2.43	0.22	5
March	45.9	+ 2.1	80	0	5.87	+2.87	11.24	1.69	11
April	57.7	+ 2.6	94	18	8.46	+4.73	18.25	3.95	14
May	64.6	0.0	94	34	6.98	+2.28	13.62	1.46	12
June	70.3	− 3.2	99	41	5.77	+1.10	11.61	1.99	10
July	75.8	− 1.6	101	48	4.13	+0.08	10.95	0.88	8
August	71.1	− 4.9	97	39	5.06	+1.38	13.87	1.94	9
September	71.6	+ 2.6	102	29	3.71	−0.02	9.82	1.57	8
October	60.9	+ 3.5	93	26	4.72	+1.97	10.59	1.49	5
November	46.8	+ 2.3	89	12	3.55	+1.20	7.89	0.03	7
December	29.9	− 4.0	74	−11	2.68	+0.65	7.84	0.52	6
Year	55.5	+ 0.7	102	−24	53.86	‡14.99	18.25	0.03	97

‡ Indicates plus.

Comparative Annual Data for the State

Year	Temperature			Precipitation	Year	Temperature			Precipitation
	Mean	Maximum	Minimum			Mean	Maximum	Minimum	
1888	52.9	111	−32	41.22	1910	55.0	109	−24	36.86
1889	54.3	107	− 9	37.91	1911	56.9	113	−19	38.94
1890	54.7	106	−19	35.71	1912	53.6	105	−36	38.68
1891	53.9	108	−11	38.04	1913	56.5	110	−12	37.47
1892	53.4	101	−11	42.76	1914	56.1	109	−18	34.72
1893	52.7	107	−20	38.19	1915	54.8	102	−24	49.62
1894	55.1	111	−35	33.18	1916	55.2	109	−29	40.33
1895	52.9	106	−26	39.30	1917	52.3	107	−23	31.94
1896	55.5	108	−10	44.63	1918	55.5	111	−25	37.16
1897	55.0	108	−16	38.82	1919	55.2	106	−23	40.05
1898	54.4	104	−20	53.67	1920	54.3	105	−10	37.17
1899	54.0	108	−32	37.32	1921	58.2	109	− 8	43.77
1900	55.6	105	−16	38.34	1922	56.8	108	− 6	39.99
1901	55.5	116	−29	25.28	1923	55.3	108	−11	41.23
1902	54.1	103	−17	44.96	1924	52.9	106	−28	40.01
1903	53.6	102	−25	40.15	1925	55.5	110	−14	39.78
1904	53.2	100	−23	41.62	1926	54.5	108	−20	43.07
1905	53.6	103	−40	45.43	1927	55.5	102	−24	53.86
1906	55.1	101	−13	37.34	....	....	....	....	.....
1907	55.6	109	−15	41.81	....	....	....	....	.....
1908	56.7	102	−10	42.56	....	....	....	....	.....
1909	55.7	110	−20	45.16	Average 40 yrs.	54.8	116	−40	40.20

KILLING FROSTS, 1927

Stations	Last in Spring	First in Autumn	Days in Growing Season
Northeast Plain			
Brunswick	Mar. 28	Nov. 6	223
Clifton Hill	April 23	Oct. 14	174
Columbia	April 22	Nov. 6	198
Downing	April 24	Nov. 2	192
Fayette	April 22	Oct. 8	169
Fulton	April 22	Oct. 14	175
Hannibal	April 23	Nov. 6	197
Jefferson City	April 22	Nov. 6	198
Kirksville	April 24	Oct. 18	177
Louisiana	April 22	Oct. 17	178
Macon	April 23	Oct. 18	178
Mexico	Mar. 27	Nov. 6	224
St. Charles	April 23	Nov. 6	197
St. Louis (1)	Mar. 3	Nov. 6	248
St. Louis (2)	Mar. 22	Nov. 6	229
Steffenville	April 23	Oct. 14	174
Unionville	April 24	Oct. 18	177
Warrenton	April 23	Nov. 6	197
Keokuk, Iowa	April 23	Oct. 14	174
Southeast Lowlands			
Campbell	April 22	Nov. 6	198
Caruthersville	Mar. 4	....	....
Doniphan	April 22	Oct. 19	180
Jackson	April 23	Oct. 14	171
Marble Hill	April 22	Oct. 14	175
Poplar Bluff	April 22	Oct. 14	175
Sikeston	April 22	Nov. 6	198
Cairo, Ill.	Mar. 4	Nov. 3	244
Ozark Plateau			
Arcadia	April 23	Oct. 14	174
Aurora	April 22	Nov. 6	198
Birchtree	April 22	Oct. 14	175
Bolivar	April 22	Nov. 6	198
Dean	April 22	Nov. 3	195
Eldon	April 23	Nov. 6	197
Farmington	April 23	Oct. 19	179
Goodland	April 23	Oct. 9	169
Greenville	April 23	....	....
....	....	....	....
Ozark Plateau (continued)			
Hollister	April 25	....	....
Koshkonong	April 22	Nov. 6	198
Lebanon	April 24	Oct. 14	173
Lockwood	April 22	Nov. 6	198
Mountain Grove	April 22	Oct. 18	179
Neosho	April 22	Oct. 14	175
Rolla	April 23	Nov. 6	197
Salem (near)	April 23	Oct. 14	174
Seligman	April 22	Nov. 6	198
Seymour	April 22	Oct. 14	175
Springfield	April 22	Nov. 6	198
Southwest Plain			
Amoret	April 22	Oct. 13	174
Appleton City	April 22	Nov. 6	198
Centerview	April 22	Nov. 6	198
Clinton	Mar. 27	Nov. 6	224
Harrisonville	April 22	Nov. 2	194
Lamar	April 22	Nov. 6	198
Lamonte	April 22	Nov. 2	194
Marshall	April 22	Nov. 2	194
Nevada	April 22	Nov. 6	198
Warsaw	Mar. 26	Oct. 14	202
Northwest Plateau			
Bethany	April 23	Oct. 14	174
Chillicothe	April 23	Oct. 14	174
Conception	April 23	Nov. 2	193
Edgerton	Mar. 28	Oct. 8	194
Grant City	April 23	Nov. 2	193
Kansas City	Mar. 22	Nov. 6	229
Kidder	April 23	Nov. 2	193
Lexington	Mar. 28	Nov. 6	223
Liberty	....	Nov. 2	....
Maryville	April 22	Nov. 2	194
Oregon	April 22	Nov. 2	194
St. Joseph	Mar. 22	Nov. 6	229
Tarkio	April 23	Nov. 2	193
Trenton	April 23	Nov. 6	197
....	....	....	....
....	....	....	....

WBO, St. Louis, 4-17-28—875.

Monthly and Annual Precipitation for the Year 1927, with Departures

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Northeast Plain.																										
Boonville	1.47	−0.40	0.58	−1.84	6.31	+3.28	6.76	+2.85	7.39	+2.16	4.73	−0.74	2.02	−1.90	5.01	+1.28	1.99	−2.70	5.45	+2.62	1.96	−0.35	2.10	+0.19	45.77	+4.45
Brunswick	0.92	−0.71	1.07	−0.78	3.66	+1.10	8.69	+5.21	7.21	+2.32	5.70	+0.51	2.50	−2.14	4.99	+1.10	3.51	−0.88	3.93	+1.20	2.30	+0.33	1.72	+0.10	46.20	+7.36
Clifton Hill	1.03	−0.57	1.10	−0.23	4.09	+1.44	5.93	+1.57	6.97	+1.83	6.55	+2.21	2.66	−1.22	4.82	+0.79	1.68	−3.18	5.43	+3.31	1.47	−0.44	2.53	+1.13	44.26	+6.64
Columbia	1.75	−0.48	0.57	−1.56	7.65	+4.62	5.17	+1.47	6.68	+1.82	6.11	+1.73	3.07	−0.58	5.01	+1.97	2.38	−0.47	5.08	+2.66	4.29	+1.98	1.94	−0.07	49.70	‡13.09
Downing	0.40	−1.33	0.49	−0.91	1.69	−0.67	7.59	+3.84	3.33	−1.08	6.25	+1.87	1.83	−3.10	3.14	−0.38	2.80	−1.91	8.51	+6.31	2.22	+0.59	1.77	+0.31	40.02	+3.54
Fayette	0.73	−1.26	0.67	−1.23	7.20	+4.39	6.39	+2.85	6.51	1.89	4.44	−0.10	5.17	+1.52	4.71	+1.49	4.48	−0.35	4.49	+2.01	2.91	+0.91	3.19	+1.56	50.89	‡13.68
Fulton	1.56	−0.79	0.48	−1.41	7.25	+4.21	6.00	+1.67	9.10	+4.33	5.98	+1.78	2.88	−1.11	6.45	+2.94	1.72	−2.67	4.60	+1.85	5.35	+3.10	2.29	+0.37	53.66	‡14.27
Gorin	0.90	−0.65	1.07	−0.42	3.13	+0.67	5.02	+1.02	4.49	−0.12	6.03	+2.12	2.37	−1.66	5.33	+2.33	3.16	−1.13	10.29	+7.91	1.56	−0.40	1.53	−0.16	44.88	+9.51
Hannibal	1.56	−0.61	1.43	−0.17	6.87	+4.11	3.95	+0.70	6.25	+1.25	4.88	+1.36	2.51	−1.24	2.92	−0.46	2.82	−0.74	4.82	+3.18	3.15	+1.20	2.05	+0.40	43.21	+8.95
Hermann	2.00	−0.15	0.47	−1.76	7.76	+4.75	7.42	+3.48	8.16	+3.78	4.07	−0.25	3.38	−0.27	4.38	+1.19	3.88	−0.15	3.00	+0.21	6.01	+3.29	2.05	+0.23	52.58	‡14.35
Jefferson City	1.99	−0.23	0.49	−1.60	8.24	+5.42	6.86	+3.32	6.86	+2.31	4.20	+0.18	5.10	+1.65	3.20	+0.14	4.38	+1.10	5.16	+2.57	6.27	+4.00	2.39	+0.54	55.14	‡19.40
Kirksville	0.62	−0.91	0.87	−0.95	2.09	−0.68	7.74	+4.10	2.57	−2.64	7.19	+2.92	2.10	−2.35	3.44	+0.12	3.34	−0.97	10.59	+7.86	1.52	−0.24	2.22	+0.58	44.29	+6.84
Louisiana	1.22	−0.80	0.84	−1.51	7.05	+4.15	8.94	+5.56	7.24	+2.68	4.57	+0.62	4.48	+1.36	3.79	+0.06	2.61	−1.34	4.76	+2.13	5.21	+2.93	1.93	+0.24	52.64	‡16.08
Macon	1.14	−0.51	0.96	−0.99	2.35	−0.34	7.67	+4.48	7.85	+3.28	7.30	+2.89	2.05	−1.71	4.08	+0.80	2.52	−1.69	4.44	+1.71	1.00	−0.93	2.59	+1.19	43.95	+8.18
Mexico	1.60	−0.45	0.68	−1.53	6.48	+3.69	7.80	+4.13	8.07	+3.31	5.45	+0.67	3.84	+0.09	3.45	+0.20	1.86	−2.82	5.48	+3.10	4.30	+1.98	2.25	+0.25	51.26	‡12.62
Milan	0.70	......	1.00	......	2.69	......	7.52	......	2.32	......	6.61	......	2.54	......	2.05	......	2.48	......	7.94	......	1.45	......	1.91	......	39.21	......
Monroe City	....	......	....	......	....	......	....	......	....	......	....	......	1.79	......	3.80	......	2.61	....	5.10	......	3.30	......	2.13	......	....	......
Pacific	3.52	+1.11	0.41	−1.93	5.00	+1.29	8.46	+4.38	9.53	+4.54	3.97	−0.40	1.62	−2.46	1.94	−1.88	3.91	+0.05	4.51	+1.56	5.87	+3.12	2.93	+0.87	51 67	‡10.25
St. Charles	1.34	−0.93	0.22	−2.41	5.77	+2.68	8.89	+5.21	9.33	+5.15	4.26	+0.30	2.41	−0.82	4.19	+0.73	4.04	+0.76	4.10	+1.43	4.40	+1.86	0.91	−0.96	49.86	‡13.00
St. Louis(1)	3.66	+1.39	0.56	−2.19	7.67	+4.24	6.30	+2.78	9.21	+4 97	2.59	−1.88	2.79	−0.64	2.60	−0.06	2.93	+0.02	4.65	+2.24	5.56	+2.68	2.31	+0.08	50.83	‡13.63
St. Louis(2)	3.31	+0.24	0.62	−1.69	7.47	+4.52	6.45	+2.44	9.82	+5.58	2.42	−1.34	2.36	−0.39	2.73	−2.88	3.72	−0.92	4.46	+0.67	5.64	+3.33	2.26	+0.16	51.26	+9.72
Shelbina	0.84	−0.88	1.66	−0.26	3.73	+0.88	6.53	+3.00	5.37	+0.39	4.99	+0.28	2.09	−2.07	3.48	+0.63	3.08	−0.90	4.58	+1.86	2.60	+0.52	2.34	+0.73	41.29	+4.18
Steffenville	1.09	−1.10	1.95	+0.10	3.81	+0.90	7.61	+4.00	4.69	−0.26	4.66	+0.56	2.41	−2.02	2.95	−0.52	3.60	−0.59	4.65	+2.53	1.77	−0.16	2.77	+1.21	41.96	+4.65
Union	3.46	+2.14	0.46	−0.94	4.79	+1.25	7.29	+2.66	10.83	+6.68	2.97	−0.84	3.16	−0.42	3.27	−1.90	4.65	+0.50	5.12	+1.38	6.53	+3.96	3.04	+0.54	55.57	‡15.01
Unionville	0.68	−1.16	2.15	+0.32	2.85	+0.46	6.65	+2.84	3.05	−1.91	5.55	+0.87	3.25	−1.04	2.88	−1.08	3.20	−1.41	6.55	+4.09	1.15	−0.67	1.55	−0.09	39.51	+1.22
Warrenton	1.82	−0.56	0.59	−1.60	7.75	+4.38	7.60	+3.29	6.62	+1.83	3.49	−0.47	3.12	−0.30	5.68	+2.50	2.94	−1.10	3.55	+0.69	5.70	+3.11	2.21	+0.08	51.07	‡11.85
Southeast Lowlands																										
Benton	9.98	......	1.96	......	9.17	......	9.79	......	10.74	......	10.03	......	3.65	......	3.94	......	6.76	......	....	......	....	......	....	......	....	......
Campbell	8.89	......	2.43	... ..	7.66	......	10.73	......	7.54	......	7.33	......	7.71	......	5.14	......	3.65	......	3.29	......	3.88	......	3.00	......	71.25	......
Cape Girardeau	7.18	+3.26	1.00	−1.18	7.79	+4.38	9.39	+5.45	10.60	+6.33	6.86	+3.14	5.62	+2.72	4.00	−0.27	5.89	+3.57	2.91	−0.33	4.83	+1.49	7.40	+4.11	73.47	‡32.67
Caruthersville	5.06	+0.31	1.64	−2.16	8.21	+4.21	16.46	‡12.34	6.31	+2.05	5.69	+1.71	3.28	−0.13	3.55	−0.02	4.79	+1.69	....	......	....	......	....	......	....	......
Dexter	8.88	......	1.98	......	7.02	......	13.46	......	10.53	......	4.13	......	3.87	......	5.26	......	8.37	......	2.74	......	5.04	......	3.32	......	74.60	......
Doniphan	9.08	+4.87	2.10	−1.05	6.62	+3.03	14.63	+9.26	8.71	+4.55	6.75	+2.37	4.34	−0.39	5.31	+1.00	6.32	+2.68	2.12	−0.93	3.91	+0.79	5.35	+2.02	75.24	‡28.20
Jackson	6.36	+2.64	1.13	−1.76	8.47	+4.13	10.44	+5.97	9.58	+5.22	3.53	−0.76	6.00	+2.48	2.55	−1.06	3.44	−0.11	3.42	+0.20	5.63	+2.50	5.67	+2.47	66.22	‡21.92
Marble Hill	4.53	+1.00	1.37	−1.91	7.43	+3.25	13.47	+9.03	12.69	+8.46	3.88	−0.29	5.13	+0.45	4.08	+0.58	3.92	+0.29	2.30	−0.35	6.25	+3.08	6.88	+3.55	71.93	‡27.14
Morehouse	9.31	+5.08	1.77	−1.49	7.80	+3.30	13.67	+9.41	13.62	+9.46	8.02	+4.14	5.95	+1.18	2.47	−1.34	9.57	+6.71	1.79	−0.81	5.16	+1.51	3.54	−0.47	82.67	‡36.68
New Madrid	7.80	+2.44	3.26	−0.59	8.08	+2.83	12.64	+8.29	8.96	+4.37	7.91	+3.70	3.37	−0.54	3.63	−0.25	5.84	+2.53	2.92	−0.33	3.82	−0.03	3.15	−1.21	71.38	‡21.21
Parma	8.69	......	2.38	......	7.56	......	10.19	....	9.33	......	7.49	......	3.72	......	3.74	......	4.17	......	....	......	....	......	....	......	....	......
Patton	5.38	+2.33	0.58	−1.36	8.29	+4.23	9.69	+6.21	8.51	+3.73	3.14	−0.53	4.73	+0.99	3.88	−0.66	5.00	+1.79	....	......	....	......	....	......	....	......
Poplar Bluff	9.46	+5.49	1.83	−1.13	7.30	+2.78	12.89	+8.42	13.10	+8.07	3.06	−1.96	5.25	+1.70	6.87	+2.60	6.93	+3.35	1.58	−1.62	4.54	+1.28	4.95	+0.77	77.76	‡29.75
Sikeston	9.99	+5.76	1.03	−2.23	5.63	+1.13	13.87	+9.61	13.34	+9.18	9.48	+5.60	4.31	−0.46	2.62	−1.19	9.82	+6.96	1.49	−1.11	5.94	+2.29	3.19	−0.82	80.71	‡34.72
Ozark Plateau																										
Arcadia	3.64	+0.42	0.54	−2.62	4.97	+0.90	10.63	+6.01	8.36	+3.58	5.77	+1.19	4.19	−0.05	2.58	−1.14	3.54	−0.10	3.62	+0.55	4.58	+0.96	4.54	+1.56	56.96	‡11.26
Aurora	2.89	+0.49	0.99	−1.83	6.11	+2.43	8.85	+4.50	8.12	+2.66	7.30	+2.32	10.95	+5.59	11.05	+6.78	2.47	−1.26	3.81	+0.54	5.70	+2.91	1.62	−1.02	69.86	‡24.11
Birchtree (near)	5.91	+2.85	1.03	−1.46	5.74	+1.49	10.98	+6.26	6.39	+2.08	6.51	+1.98	5.12	+1.13	9.76	+5.37	4.71	+1.12	1.83	−0.75	5.54	+2.65	5.62	+3.05	69.14	‡25.77
Bolivar	3.99	+2.10	1.24	−1.05	11.24	+8.20	7.27	+3.28	....	......	....	......	2.85	−0.90	4.84	+1.16	2.68	−1.42	4.08	+0.77	3.96	+1.43	2.52	+0.12	....	......
Caplinger Mills	2.24	......	1.02	......	7.71	......	8.32	......	9.01	......	11.05	......	10.20	......	13.67	......	3.00	......	3.95	......	3.01	......	1.54	......	74.72	......
Dean	2.93	+0.69	0.82	−1.01	4.26	+0.91	9 30	+5.26	3.72	−2.24	10.99	+5.72	6.27	+2.22	7.83	+3.56	4.45	+0.83	5.12	+1.63	5.55	+2.51	2.27	+0.15	63.51	‡20.32
Eldon	1.94	+0.40	0.91	−1.19	9.34	+6.51	5.95	+1.49	8.35	+3.49	4.63	+0.32	4.71	+1.05	3.19	−0.79	3.19	−0.61	4.91	+1.88	6.49	+4.28	2.44	+0.28	56.05	‡17.11
Farmington	3.97	+1.62	0.97	−2.32	6.30	+3.03	11.11	+7.15	6.36	+0.86	2.56	−2.07	5.78	+2.23	4.59	+1.21	1.75	−1.47	2.56	−0.33	5.90	+1.94	3.52	+0.81	55 37	‡12.66
Fredericktown	5.52	......	1.27	......	5.71	......	8.81	......	6.65	......	2.50	......	2.22	......	2.55	......	3.12	......	2.50	......	6.32	......	4.78	......	51.95	......
Galena	2.30	−0.06	0.73	−1.35	3.01	−0.86	10.21	+6.73	6.84	+1.60	5.64	+2.08	4.12	−0.21	9.58	+5.94	2.97	−1.16	6.52	+4.08	4.65	+1.75	2.68	+0.06	59.25	‡18.60
Goodland	2.11	−0.76	0.64	−1.85	5.78	+1.53	7.58	+2.49	11.73	+7.11	4.68	+0.58	2.84	−1.34	2.96	−1.07	2.02	−1.71	2.60	−0.62	5.45	+2.56	2.16	−0.32	50.45	+6.60
Greenville	5.37	.....	1.63	......	9.58	......	11.87	......	13.41	......	6.17	......	4.50	....	3.97	......	....	......	....	......	....	......	....	......	....	......
Hailey	3 10	......	0.85	......	4.26	.....	6.16	...	9.39	....	7.18	......	8.38	......	8.72	......	3.42	.....	3.83	......	3.22	......	2.50	......	61.01	......
Hollister	3.90	+1.29	2.10	+0.02	4.98	+1.75	18.25	‡13.68	9.10	+4.87	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......
Koshkonong	7.07	+3.53	1.68	−1.11	4.32	+0.51	13.70	+8.73	6.99	+2.15	6.93	+2.45	4.86	+0.94	5.47	+1.02	4.83	+1.34	1.59	−1.32	3.89	+0.87	7.84	+4.68	69.17	‡23.79
Lebanon	4.15	+1.70	0.78	−1.72	7.90	+4.45	9.52	+5.34	7.13	+1.52	11.61	+6.68	5 58	+1.46	12 39	+8.86	2.19	−1.90	4.35	+1.09	7.28	+4.74	1.32	−1.28	74.20	‡30.94
Lockwood	1.74	+0.08	0.73	−1.24	8.12	+5.66	9.55	+5.89	4.00	−1.08	8.05	+3.25	8.56	+3.69	11.13	+6.96	3.10	−0.90	3.84	+0.39	4.42	+2.21	2.34	+0.40	65.58	‡25.31
Mountain Grove	4.35	+1.48	0.96	−1.30	6.15	+1.81	9.88	+5.10	7.25	+2.40	5.64	+1.08	9.46	+5.46	9.13	+4.73	4.63	+0.59	5.32	+2.27	6.04	+3.61	4.07	+1.84	72.88	‡29.07
Neosho	3.94	+1.44	0.93	−1.45	5.85	+2.38	8.86	+4.74	3.96	−2.11	9.03	+3.60	7.88	+3.70	7.57	+3.48	2.53	−1.69	4.42	+1.03	4.37	+1.31	3.07	+0.53	62.41	‡16.96
Owensville	2.93	......	0.30	......	5.58	......	8.06	......	8.47	......	3.74	......	4.80	......	3.11	......	3.64	......	2.95	......	7.09	......	3.24	......	53.91	......
Rolla	4.18	+1.73	1.19	−1.15	7.06	+3.47	6 53	+1.87	9.35	+4.34	2.76	−1.37	4.03	−0.06	4.47	+0.39	4.16	+0.32	4.05	+1.10	7.89	+5.58	2.88	+0.81	58.55	‡17.03
Salem(near)	4.29	+1.44	0.93	−1.45	7.45	+4.15	7.75	+3.20	10.79	+6.25	5.67	+1.37	4.04	+0.54	4.83	+0.42	2.66	−1.60	3.68	+0.20	5.90	+3.59	2.35	+0.34	60.34	‡18.45
Seligman	3.81	+1.57	2.33	+0.45	4.28	+0.34	9.83	+5.90	7 08	+1.49	6.23	+2.70	6.30	+1.90	7.81	+3.82	4.92	+0.80	3.63	+0.69	4.35	+1.99	2.42	−0.15	62.99	‡21.50
Seymour (near)	2.65	−0.05	0.93	−1.52	6.93	+2.87	9.48	+5.52	6.00	+0.32	6.74	+2.11	5.82	+1.07	8.97	+5.13	3.04	−1.54	6.31	+3.30	3.62	+1.29	3.49	+1.44	63.98	‡19.94
Springfield	3.47	+0.81	0.79	−1.48	7.46	+3.39	9.65	+5.79	5.85	+0.30	5.95	+0.76	6.80	+2.01	8.68	+4.37	2.20	−1.56	4.29	+1.49	5.44	+2.80	1.87	−0.80	62.45	‡17.88
Steelville	3.00	+1.15	0.93	−1.33	5.74	+3.66	9.08	+4.77	8.14	+3.80	4.13	−0.02	2.70	−0.50	3.55	+0.04	2.48	−0.72	4.82	+1.61	5.71	+3.03	3.04	+1.13	53.32	‡16.62
Stover	1.79	......	0.57	......	7.29	......	8.26	......	9.61	......	5.24	......	4.57	......	2.66	......	3.48	......	5.72	......	3.84	......	2.32	......	55.35	......
Tuscumbia	2.34	+1.20	0.53	−0.79	9.37	+5.92	7.44	+3.00	7.65	+3.56	4.98	+1.31	3.16	+0.82	2.53	−1.11	5.17	−0.25	6.14	+2.02	5.46	+3.04	2.44	+0.33	57.21	‡19.05
Willow Springs(near)	5.07	......	1.36	......	5.47	......	12.26	......	7.40	......	7.23	......	7.01	......	7.65	......	4.57	......	3.37	......	5.37	......	5.58	......	72.34	......
Southwest Plain																										
Amoret	1.22	−0.07	0.55	−1.60	9.56	+7.06	8.77	+4.77	4.89	+0.07	....	......	6.10	+2.14	7.44	+3.43	2.39	−1.51	9.14	+6.62	1.82	+0.16	2.04	+0.45	....	......
Appleton City	1.77	−0.06	0.36	−1.61	6.79	+3.72	6.03	+1.77	8.45	+2.91	5 83	+0.84	6.31	+1.68	5.40	+1.66	2.97	−0.70	5.26	+2.92	2.82	+0.69	2.72	+1.08	54.71	‡14.90
Centerview	1.52	−0.27	0.93	−1.20	10.69	+8.15	6.23	+3.03	3.17	−1.49	5.27	+0.51	3.49	−0.46	2.90	−0.69	7.81	+4.22	3.84	+1.29	2.77	+0.99	2.32	+0.52	50.94	‡14.60
Clinton	2.47	+0.49	0.79	−1.31	8.39	+5.53	6.82	+2.78	7.44	+2.00	6.84	+2.11	5.03	+1.09	4.02	+0.66	2.97	−0.85	5.79	+2.98	2.69	+0.81	3.26	+1.53	56.51	‡17.82
Concordia	0.87	......	1.32	......	7.15	......	8.29	......	7.41	......	5.61	......	0.88	......	4.30	......	4.05	......	8.45	......	1.62	......	2.21	......	52.16	......
Harrisonville	1.28	−0.32	0.76	−1.26	6.16	+3.47	7.91	+4.52	4.21	−0.60	6.80	+2.34	5.04	+1.26	6.15	+2.00	1.57	−2.79	8.19	+5.60	1.65	−0.30	2.29	+0.51	52.01	‡14.43
Joplin	3.14	+1.06	0.88	−1.36	6.95	+4.06	7.47	+3.22	2.24	−2.92	7.34	+2.00	5.74	+1.33	8.46	+4.20	2.26	−0.99	5.46	+2.16	3.18	+0.62	2.17	+0.31	55.29	‡13.69
Lamar	2.62	+0.92	0.67	−1.56	6.30	+3.40	11.29	+7.14	5.50	+0.04	7.59	+2.63	6.75	+2.51	13.87	+9.69	3.29	−0.95	4.63	+1.50	3.36	+1.12	2.32	+0.37	67.92	‡26.81
Lamonte	2.27	+0.49	1.24	−0.67	10.04	+7.44	6.82	+3.05	9.51	+4.56	4.71	+0.22	4.40	+0.40	3.77	+0.05	4.29	−0.21	5.39	+3.06	3.28	+1.38	3.69	+2.03	59.41	‡21.80
Marshall	1.30	−0.52	1.02	−0.82	6.39	+3.68	7.83	+4.14	8.69	+3.83	4.94	+0.62	1.45	−2.51	2.80	−0.86	4.56	−0.32	6.31	+3.73	1.11	−0.97	3.05	+1.39	49.45	‡11.39
Nevada	1.55	−0.42	0.37	−1.71	3.70	+0.71	8.08	+4.29	4.22	−1.50	7.74	+2.63	5.82	+1.89	13.51	‡10.00	2.50	−1.66	4.13	+1.05	2.34	+0.46	3.32	+1.46	57.28	‡17.20
Osceola	2.37	+0.25	1.12	−0.67	6.15	+3.22	9.67	+5.62	6.26	+0.31	10.54	+5.79	5.62	+1.58	8.58	+4.96	2.93	−1.58	6.23	+3.40	3.39	+0.61	2.91	+0.69	65.77	‡24.18
Warsaw	1.90	−0.48	0.50	−2.06	10.75	+7.52	6.71	+2.49	8.21	+2.98	4.94	−0.23	3.47	−0.83	4.56	+0.27	3.83	−0.49	5.79	+2.48	4.46	+2.05	2.45	+0.13	57.57	‡13.83
Waverly	1.33	−0.29	1.05	−0.09	4.59	+1.37	8.90	+4.61	7.39	+2.08	5.76	+0.64	2.98	−0.38	4.81	+0.82	3.77	−1.17	5.89	+3.81	2.30	+0.46	2.26	+1.23	51.03	‡13.09
Northwest Plateau																										
Albany	0.40	......	1.90	......	2.18	......	4.40	......	....	......	....	......	1.40	......	4.04	......	3.48	......	2.23	......	0.03	......	1.00	......	....	......
Bethany	0.36	−0.94	0.64	−0.80	3.32	+1.02	6.76	+3.51	2.64	−2.34	6.46	+1.98	2.39	−2.12	3.65	−0.23	3.26	−0.60	4.03	+1.82	0.65	−1.12	1.15	−0.20	35.31	+0.01
Chillicothe	0.78	−0.88	1.30	−0.71	1.74	−1 04	8.96	+4.52	2.15	−2.56	6.69	+1.62	2.39	−2.19	3.89	−0.77	4.28	−1.46	10.19	+6.74	1.39	−0.94	1.81	+0.16	45.57	+2.49
Conception	0.40	−0.55	0.59	−0.60	2.61	+0.86	5.62	+2.81	2.30	−2.47	3.63	−0.92	3.22	−1.08	6.03	+2.55	2.82	−1.03	6.27	+3.82	1.37	+0.01	0.72	−0.27	35.58	+3.13
Edgerton	0.39	−0.88	1.31	−0.11	2.02	−0.73	5.25	+1.71	2.78	−2.67	4.90	−0.21	2.84	−1 96	3.25	−0.59	3.82	+0.54	4.61	+2.36	0.75	−0.72	0.69	−0.64	32.61	−3.93
Gallatin	0.70	−0.49	0.90	−0.70	1.70	−0.85	6.90	+3.18	....	......	6.55	+1.24	4.88	+0.53	3.72	−0.40	1.69	−2.35	4.58	+1.96	0.80	−0.98	1.12	−0.40	....	......
Grant City	0.35	−0.61	0.80	−0.32	3.10	+0.99	6.82	+3.76	2.22	−2.51	4.68	+0.13	2.44	−2.72	4.08	+0.45	4.78	+0.79	4.66	+1.94	0.28	−1.33	0.73	−0.43	34.94	+0.14
Kansas City	1.29	+0.16	0.85	−0.74	4.60	+1.78	6.27	+2.98	5.46	+0.35	5.75	+1.09	2.33	−2.51	5.11	+0.36	4.21	+0.45	5.30	+3.09	1.13	−0.72	1.65	+0.29	43.95	+6.58
Kidder	0.60	−0.70	1.18	−0.34	2.02	−0.28	9.41	+6.37	1.46	−3.75	5.36	+1.00	3.93	0.00	6.35	+2.44	2.72	−1.52	5.74	+3.12	0.70	−1.14	1.39	+0.09	40.86	+5.29
King City	....	......	1.02	......	2.62	......	7.61	......	3.27	.....	4.72	......	2.97	......	3.74	.....	2.53	......	5.25		0.55		0.92	......	....	......
Lexington	1.41	−0.16	0.96	−1.04	4.54	+2.17	9.26	+5.90	7.27	+2.21	5.50	+0.73	2.07	−2.65	4.61	+1.38	3.77	−0.67	5.68	+3.11	1.46	−0.39	2.07	+0.35	48.60	‡10.94
Liberty	....	......	....	......	....	......	....	......	....	......	....	......	....	......	3.84	−0.09	2.88	−1.56	9.14	+6.69	1.80	+0.02	....	......	....	......
Maryville	0.22	−0.86	1.01	−0.43	3.69	+1.81	7.81	+4.90	1.88	−3.87	1.99	−2.64	2.71	−2.68	4.36	+0.50	3.34	−0.87	4.31	+1.64	0.91	−0.74	0.88	−0.17	33.11	−3.41
Oregon	0.35	−1.04	1.86	+0.24	4.19	+2.17	6.16	+2.87	2.67	−2.19	5.69	+0.96	3.81	−0.51	5.09	+1.12	3.13	−0.61	5.22	+2.66	0.42	−1.27	0.69	−0.75	39.28	+3.65
St. Joseph	0.80	−0.04	1.37	−0.14	3.96	+1.55	6.64	+3.79	2.37	−1.98	5.00	+0.33	3.17	+0.08	4.46	+1.12	3.76	−1.37	4.63	+2.07	0.58	−0.86	0.99	−0.11	37.73	+4.44
Tarkio	0.24	−0.55	1.30	+0.23	2.35	+0.65	5.47	+2.30	1.81	−2.85	4.80	−0.01	2.76	−0.95	3.75	−0.12	3.91	+0.41	3.74	+1.17	0.06	−1.39	0.52	−0.40	30.71	−1.51
Trenton	0.86	−0.52	1.29	−0.24	3.54	+1.10	5.83	+2 56	2.32	−3.02	6.74	+2.44	2.73	−1.60	4.61	+0.99	2.72	−1.54	7.20	+4.64	1.19	−0.61	1.36	+0.01	40.39	+4.21

‡ Indicates plus. * Indicates minus.

Monthly and Annual Mean Temperatures for the Year 1927, with Departures

Stations	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Northeast Plain.																										
Brunswick	32.0	+ 5.2	39.9	+10.8	46.2	+ 4.3	55.3	+ 1.2	64.1	− 0.2	70.0	− 3.2	75.8	+ 0.1	71.6	− 2.2	71.2	+ 4.5	59.4	+ 4.2	43.8	+ 2.3	27.2[a]	− 3.4	54.7	+ 2.0
Clifton Hill	26.8	− 1.9	38.4	+ 9.2	44.4	+ 2.2	54.8	+ 1.3	62.2	− 2.0	68.3	− 4.7	74.6	− 1.8	69.8	− 6.4	70.5	+ 1.6	59.7	+ 2.5	44.8	+ 1.0	27.0	− 4.1	53.4	− 0.3
Columbia	30.0	+ 0.8	40.0	+ 8.3	46.0	+ 3.4	56.8	+ 1.9	63.2	− 1.1	69.5	− 3.3	74.8	− 2.1	70.0	− 5.6	70.9	+ 2.7	60.6	+ 4.0	46.0	+ 2.7	29.2	− 4.0	54.8	+ 0.6
Downing	25.9	......	36.6	......	43.8	......	52.4	......	61.8	......	....	......	75.6	......	71.2	......	71.1	......	59.8	......	42.6	......	26.2	......	....	......
Fayette	28.0	+ 0.8	38.6	+ 8.4	43.5	+ 1.4	55.6	+ 1.3	61.8	− 2.5	68.6	− 4.7	74.4	− 3.0	70.2	− 5.9	70.0	+ 1.7	58.8	+ 2.1	45.4	+ 3.1	27.2	− 4.0	53.5	− 0.1
Fulton	28.4	− 1.3	39.2	+ 6.5	45.4	+ 1.0	56.4	+ 2.1	62.8	− 2.2	68.6	− 5.0	75.2	− 2.7	70.0	− 6.5	71.3	+ 2.4	59.4	+ 1.7	47.0	+ 2.5	29.4	− 4.3	54.4	− 0.5
Hannibal	27.0	− 0.1	38.7	+ 9.0	45.4	+ 4.4	54.0	+ 0.6	62.6	− 1.0	69.3	− 3.2	75.6	− 1.2	70.3	− 4.7	71.6	+ 3.9	59.8	+ 3.8	45.4	+ 3.3	28.5	− 3.0	54.0	+ 1.0
Jefferson City	29.2	− 0.6	41.7	+10.8	47.1	+ 3.9	58.1	+ 2.0	64.0	− 0.9	69.9	− 4.1	75.3	− 2.8	71.3	− 5.4	72.0	+ 2.9	60.2	+ 3.5	47.0	+ 2.9	29.8	− 3.0	55.5	+ 0.8
Kirksville	25.8	+ 0.9	36.8	+10.9	43.1	+ 3.6	52.2	+ 0.5	61.2	− 1.3	67.4	− 4.8	74.6	− 1.5	70.4	− 3.6	70.1	+ 4.1	59.4	+ 4.7	43.6[a]	+ 3.1	25.8	− 3.8	52.5	+ 1.1
Louisiana	28.2	+ 0.3	40.6	+10.9	47.0	+ 3.7	56.4	+ 2.8	64.1	+ 0.3	70.2	− 1.9	76.2	− 0.2	70.2	− 4.8	71.8	+ 3.9	61.0	+ 4.7	48.8	+ 4.6	31.1	− 0.4	55.5	+ 2.0
Macon	25.8	− 2.7	38.0[a]	+ 9.3	44.2	+ 1.6	53.8	+ 0.7	62.2	− 1.7	68.6	− 4.4	75.4	− 2.0	70.7	− 5.6	70.1	+ 1.8	59.0	+ 2.2	43.4	0.0	26.2	− 4.2	53.1	− 0.4
Mexico	27.2	− 1.1	38.8	+ 9.5	45.8	+ 3.8	55.1	+ 1.4	64.6	+ 0.3	70.2	− 3.5	75.9	− 1.4	71.6	− 4.5	73.4	+ 4.8	62.9	+ 6.5	48.1	+ 5.1	28.6	− 3.2	55.2	+ 1.5
St. Charles	30.7	− 0.4	41.8	+ 9.3	47.4	+ 3.0	57.2	+ 1.8	64.4	+ 1.4	70.7	− 3.5	76.4	− 1.7	71.4	− 5.3	74.5	+ 6.6	62.4	+ 4.3	49.2	+ 3.7	31.7	− 3.2	56.5	+ 1.3
St. Louis(1)	31.6	+ 0.4	43.2	+ 8.4	47.9	+ 3.7	57.0	+ 0.9	64.5	− 2.5	71.2	− 3.8	77.6	− 1.1	72.2	− 5.3	75.3	+ 4.8	62.8	+ 4.0	48.0	+ 2.6	32.4	− 2.5	57.0	+ 0.8
St.Louis(2)	31.2	+ 1.0	42.5	+10.3	47.0	+ 3.4	56.5	+ 1.3	63.9	− 2.2	70.8	− 4.1	77.0	− 3.1	71.4	− 5.8	74.6	+ 4.4	62.1	+ 3.2	47.3	+ 0.8	31.2	− 3.1	56.3	+ 0.5
Steffenville	26.7	− 1.1	39.2	+10.8	45.2	+ 2.8	53.3[a]	+ 0.4	62.1[a]	− 2.0	68.2	− 5.0	75.8	− 2.2	71.8[a]	− 4.9	71.6	+ 2.5	60.2[a]	+ 2.5	44.4	+ 0.6	28.0	− 2.6	53.9	+ 0.2
Unionville	25.6	+ 2.1	35.6	+10.2	43.0	+ 4.4	52.5	+ 1.8	61.1	− 1.3	67.5	− 4.3	74.6	− 2.0	70.4	− 4.6	70.2	+ 3.0	58.2	+ 2.8	41.6	+ 1.4	25.0	− 2.4	52.1	+ 1.0
Warrenton	30.6	+ 1.6	42.0	+12.1	46.6	+ 4.4	57.0	+ 2.5	64.3	− 0.7	70.0	− 3.6	75.9	− 1.9	71.0	− 5.4	73.0	+ 4.2	61.8	+ 6.2	49.0	+ 6.1	31.6	− 0.4	56.1	+ 2.1
Keokuk, Ia	25.4	+ 0.5	36.8	+ 8.5	44.4	+ 5.5	52.0	− 0.3	61.2	− 2.6	68.2	− 4.3	75.4	− 1.5	70.6	− 4.4	71.0	+ 3.5	59.3	+ 3.9	43.8	+ 2.7	26.9	− 2.7	52.9	+ 0.7
Section Means	28.2	+ 0.2	39.4	+ 9.6	45.4	+ 3.4	55.1	+ 1.3	63.0	− 1.2	69.3	− 4.0	75.6	− 1.8	70.8	− 5.0	71.8	+ 3.5	60.3	+ 3.7	45.7	+ 2.7	28.6	− 3.0	54.5	+ 0.9
Southeast Lowlands.																										
Campbell	36.9	......	48.0	......	49.9	......	62.7	......	68.6	......	73.8	......	76.8	......	73.0	......	74.0	......	62.4	......	52.6	......	37.2	......	59.7	......
Caruthersville	37.4	− 1.6	50.2	+11.3	52.6	+ 1.4	64.0	+ 3.8	71.0	+ 1.5	75.9	− 1.9	80.6	0.0	75.8	− 3.9	77.4	+ 4.0	....	......	....	......	....	......	....	......
Doniphan	34.6	− 1.6	46.2	+ 8.1	48.7	− 0.7	61.6	+ 3.6	67.4	+ 0.5	73.2	− 1.6	77.8	− 0.4	72.6	− 4.8	72.8	+ 2.0	61.4	+ 3.0	52.6	+ 5.0	35.6	− 1.8	58.7	+ 0.9
Jackson	34.0	0.0	46.4	+10.9	48.3	+ 1.1	59.8	+ 2.9	66.2	+ 0.4	71.4	− 2.7	75.8	− 1.6	70.8	− 5.4	72.6	+ 2.7	60.2	+ 2.2	50.2	+ 3.5	34.3	− 2.3	57.5	+ 1.0
Marble Hill	34.4	− 0.4	46.3	+11.0	48.6	+ 1.2	61.6	+ 4.9	67.0	+ 1.3	71.7	− 2.2	76.4	− 0.9	71.8	− 5.2	74.4	+ 4.0	61.6	+ 3.6	51.2	+ 6.8	35.2	− 1.0	58.4	+ 1.9
Poplar Bluff	35.9	− 0.7	47.6	+11.3	49.6	+ 0.8	62.2	+ 3.0	68.2	+ 0.2	73.2	− 2.2	77.6	− 1.1	73.3	− 4.7	74.7	+ 3.4	62.6	+ 2.3	51.4	+ 4.0	36.3	− 0.5	59.4	+ 1.1
Sikeston	34.8	− 2.8	45.0	+ 8.4	47.0	− 1.4	61.2	+ 3.3	68.4	− 0.2	74.7	+ 0.2	78.7	+ 0.6	73.6	− 4.0	74.5	+ 3.9	62.2	+ 3.4	49.6[a]	+ 2.2	36.6	− 0.9	58.9	+ 1.1
Cairo, Ill	36.4	+ 1.5	46.9	+ 8.4	50.0	+ 2.8	60.6	+ 2.5	68.0	− 0.4	73.1	− 3.2	78.2	− 1.4	73.8	− 4.0	75.3	+ 3.8	63.5	+ 3.1	51.9	+ 4.6	37.0	− 0.8	59.6	+ 1.4
Section means	35.6	− 0.8	47.1	+ 9.9	49.3	+ 0.7	61.7	+ 3.4	68.1	+ 0.5	73.4	− 1.9	77.7	− 0.7	73.1	− 4.6	74.5	+ 3.4	62.0	+ 2.9	51.4	+ 4.4	36.0	− 1.2	58.9	+ 1.3
Ozark Plateau																										
Arcadia	30.4	− 1.7	40.2	+ 6.7	45.4	+ 0.6	53.3	− 2.0	63.0	− 1.6	68.4	− 3.6	72.6	− 3.3	67.8	− 6.7	69.8	+ 2.2	58.8	+ 2.7	46.1	+ 2.1	31.4	− 2.9	53.9	− 0.6
Aurora	35.5	+ 2.0	45.0	+11.4	47.4	+ 1.8	61.2	+ 5.5	67.2	+ 1.3	71.0	− 2.8	75.4	− 2.4	71.0	− 5.8	71.2	+ 0.5	62.2	+ 3.7	50.2	+ 4.2	33.4	− 1.7	57.6	+ 1.5
Birchtree(near)	34.8	+ 0.4	46.5	+11.6	48.6	+ 1.2	61.0	+ 4.2	67.4	+ 2.2	70.1	− 2.6	75.2[a]	− 1.2	70.7	− 5.2	70.8	+ 1.3	62.6	+ 4.4	51.3	+ 4.8	34.9	− 0.9	57.8	+ 1.7
Bolivar	35.2	+ 1.3	....	......	49.7[d]	+ 3.6	61.6	+ 5.5	....	......	....	......	73.1[b]	− 4.0	71.1[h]	− 5.9	72.8[g]	+ 3.2	62.6	+ 4.1	50.0[b]	+ 3.2	33.2[a]	− 3.6	....	......
Dean	....	......	....	......	....	......	67.4	+10.1	70.6[a]	+ 4.8	75.2	+ 2.2	....	......	....	......	....	......	....	......	....	......	35.4[a]	− 2.0	....	......
Eldon	31.3	− 0.1	43.3	+11.4	46.0	+ 2.5	57.9	+ 2.5	63.5[b]	− 1.0	69.4	− 3.8	75.5[a]	− 1.5	70.6[c]	− 5.8	71.0	+ 1.7	60.0	+ 2.3	48.3[c]	+ 3.1	30.4[a]	− 3.9	55.6	+ 0.6
Farmington	31.8	− 1.0	43.8	+ 8.2	47.2	+ 0.3	58.2	+ 1.3	64.0	+ 0.2	70.9	− 1.7	75.0	− 0.3	69.8	− 5.0	72.8	+ 3.5	61.0	+ 4.6	48.4	+ 4.1	32.8	− 4.2	56.3	+ 0.8
Goodland	32.7	+ 0.1	43.8	+10.9	47.1	+ 2.2	59.4	+ 4.8	65.4	+ 0.9	69.0	− 3.1	74.5	− 1.1	69.8	− 4.7	70.7	+ 3.4	59.7	+ 3.9	48.6	+ 4.0	32.1	− 2.3	56.1	+ 1.6
Greenville	33.4	......	43.6	......	46.4[d]	......	60.4	....	64.7[c]	...	70.8	......	74.1	......	70.3[c]	......	....	......	....	......	....	......	....	......	....	......
Hollister	33.0	− 3.0	41.5	+ 3.5	44.4	− 4.3	58.5	− 1.2	67.5	+ 0.2	....	......	....	......	....	......	....	......	....	......	....	......	....	......	....	......
Koshkonong	37.2	+ 0.7	49.9[a]	+12.4	49.8	+ 0.2	62.9	+ 5.1	68.4[a]	+ 1.6	72.8	− 1.5	77.4	− 0.9	73.2	− 4.5	74.5	+ 3.6	64.3	+ 4.3	51.8	+ 2.4	36.4[d]	− 1.2	59.9	+ 1.7
Lebanon	32.7[c]	− 0.3	41.3	+ 7.4	45.0	− 0.4	58.9	+ 3.2	63.8	− 1.8	68.8	− 4.3	73.3	− 3.6	69.6	− 6.7	70.0	+ 0.5	59.5	+ 1.5	46.0	0.0	29.8	− 5.2	54.9	− 0.8
Lockwood	33.4[e]	+ 0.1	42.1	+ 6.6	44.6	− 3.3	58.6	+ 2.6	64.2	− 0.4	69.4	− 4.6	73.7	− 3.9	69.4	− 7.8	68.3	− 3.0	62.6	+ 4.0	49.7	+ 2.0	33.0	− 2.5	55.8	− 0.8
Mountain Grove(near)	33.4	+ 0.2	44.2	+10.4	45.7	− 0.3	60.0	+ 5.8	66.0	+ 2.1	70.4	− 1.2	74.8	− 1.2	70.4	− 4.7	71.9	+ 3.5	61.5	+ 3.9	47.8	+ 1.2	32.2	− 2.1	56.5	+ 1.5
Neosho	36.4	+ 1.3	46.0	+ 9.4	48.9	+ 0.7	62.1	+ 4.1	68.6	+ 2.4	71.2	− 2.7	74.4	− 3.2	71.8	− 5.1	69.6	− 0.7	60.5	+ 1.3	50.7	+ 3.5	31.8	− 4.9	57.7	+ 0.5
Rolla	33.4	+ 2.1	44.4	+ 9.2	48.2	+ 3.2	60.0	+ 5.0	65.6	+ 1.1	71.2	− 1.6	76.4	− 1.0	71.2	− 4.6	73.0	+ 5.0	61.9	+ 6.0	49.3	+ 4.4	33.4	− 0.2	57.3	+ 2.4
Salem(near)	32.7	− 0.2	43.6	+ 9.1	47.8	+ 0.9	59.7	+ 4.1	65.1	− 0.2	69.9	− 2.9	75.0	− 1.9	70.0	− 6.1	70.6	+ 1.1	59.8	+ 1.8	49.0	+ 2.2	31.8	− 3.4	56.2	+ 0.4
Seligman	36.7[b]	+ 2.0	46.6	+10.4	48.5[b]	+ 2.3	61.1	+ 5.3	66.8[b]	+ 1.9	70.2[a]	− 2.3	74.2[a]	− 2.4	71.5[c]	− 4.1	71.6[b]	+ 2.8	63.2	+ 4.9	50.6	+ 3.4	33.2[f]	− 3.4	57.8	+ 1.7
Seymour(near)	33.5	− 0.8	43.4	+11.0	46.6	+ 1.4	59.5	+ 4.1	65.1	+ 1.0	69.5	− 2.5	72.8[f]	− 2.7	69.5	− 5.5	69.4	+ 0.8	60.2	+ 2.7	48.4	+ 2.3	32.2	− 2.2	55.8	+ 0.8
Springfield	34.4	+ 0.9	43.8	+ 8.6	46.8	+ 1.6	59.7	+ 3.7	65.6	+ 1.1	70.2	− 2.3	74.8	− 2.0	70.5	− 5.2	71.3	+ 2.4	62.2	+ 4.0	47.9	+ 2.2	33.1	− 3.1	56.7	+ 1.0
Section Means	33.8	+ 0.2	44.1	+ 9.3	47.1	+ 0.8	60.1	+ 3.9	65.9	+ 0.9	70.5	− 2.4	74.6	− 2.2	70.5	− 5.5	71.2	+ 1.9	61.3	+ 3.5	49.1	+ 2.9	32.8	− 2.8	56.6	+ 0.9
Southwest Plain.																										
Amoret	30.8	+ 0.3	41.4	+ 7.7	45.6	+ 1.7	59.6	+ 5.1	66.8	+ 3.3	....	......	76.2	− 1.4	72.6	− 3.8	70.6	+ 1.9	60.8	+ 3.7	48.1	+ 2.6	30.4	− 2.1	....	......
Appleton City	32.4	+ 1.1	41.9	+ 9.6	47.0	+ 2.4	59.8	+ 4.0	65.3	+ 0.2	71.2	− 3.6	75.8	− 2.5	71.8	− 6.0	71.4	+ 1.1	61.8	+ 2.7	47.4	+ 1.3	30.6	− 3.7	56.4	+ 0.6
Centerview	28.0[c]	− 0.9	42.5	+11.2	46.0	+ 2.4	57.6	+ 1.5	62.3[d]	− 3.0	71.0	− 3.2	77.4[a]	− 1.4	70.3[a]	− 6.7	72.0	+ 1.9	60.6	+ 2.5	46.0	+ 1.1	26.0	− 7.4	54.8	− 0.2
Clinton	31.4[a]	0.0	42.0	+10.1	48.2	+ 3.9	60.8	+ 5.1	66.3[c]	+ 1.1	72.2[l]	− 1.2	80.5[c]	+ 3.0	75.8	− 1.0	...	......	63.0	+ 4.4	48.7	+ 1.4	30.6	− 3.8	....	......
Harrisonville	28.8	+ 1.6	39.4	+ 9.7	43.2	+ 2.3	56.2	+ 2.4	62.8	− 1.2	68.8	− 4.6	74.6	− 3.2	70.1	− 5.7	70.1	+ 1.8	60.6	+ 4.6	43.8	+ 1.4	26.4	− [illegible].8	53.7	+ 0.4
Lamar	33.4	+ 1.0	41.6	+ 7.1	45.9	− 0.3	60.2	+ 3.6	66.1	+ 0.2	71.6	− 2.8	76.4	− 2.1	72.0	− 5.5	71.5	+ 0.9	61.8	+ 2.9	48.1	+ 1.5	30.6	− 4.6	56.6	+ 0.2
Lamonte	30.8	+ 2.1	40.6	+ 9.0	45.2	+ 1.5	58.1	+ 3.0	64.8	+ 0.1	70.4	− 3.9	76.7	− 2.8	72.7	− 4.0	72.0	+ 1.9	61.4	+ 3.4	45.8	+ 1.4	28.0	− 6.2	55.5	+ 0.5
Marshall	30.4[e]	+ 2.8	40.4[c]	+10.9	45.4[b]	+ 2.9	58.2[c]	+ 3.8	66.4[a]	+ 2.3	71.9[e]	− 2.0	77.8[g]	+ 0.5	....	......	72.2[a]	+ 3.9	60.3[b]	+ 3.7	44.6[a]	− 1.0	28.3	− 3.3	....	......
Nevada	33.6	+ 1.9	43.4	+11.5	47.2	+ 2.9	60.3	+ 5.2	65.2	+ 0.6	72.2	− 1.4	76.4	− 3.8	71.4	− 5.5	71.6	+ 2.5	62.2	+ 4.9	48.6	+ 4.2	31.6	− 2.3	57.0	+ 1.9
Warsaw	34.3	+ 1.5	43.2	+ 9.4	48.8	+ 1.9	61.8	+ 6.0	66.0	+ 0.2	70.8	− 2.9	75.3	− 3.0	71.8	− 5.6	72.4	+ 2.4	62.2	+ 3.1	50.8	+ 3.3	33.0	− 1.8	57.5	+ 1.2
Section Means	31.4	+ 1.1	41.6	+ 9.6	46.2	+ 2.2	59.3	+ 4.0	65.2	+ 0.4	71.1	− 2.8	76.7	− 1.7	72.1	− 4.9	71.6	+ 2.1	61.5	+ 3.6	47.2	+ 1.7	29.3	− 4.2	55.9	+ 2.8
Northwest Plateau.																										
Bethany	26.4	+ 1.8	36.2	+ 9.2	43.0	+ 3.0	54.0	+ 2.8	62.5	− 0.1	68.8	− 3.6	75.7[n]	− 0.3	70.6[g]	− 4.3	70.3	+ 3.3	58.6	+ 3.9	42.9	0.0	25.0	− 5.3	52.8	+ 0.9
Chillicothe	25.6	− 3.2	36.9	+ 4.4	42.6	+ 1.0	53.8	+ 0.5	63.3	− 3.8	68.9	− 5.3	75.6	− 4.6	70.8	− 5.3	70.0	+ 0.4	58.5	+ 0.3	41.7	− 0.9	24.9	−10.7	52.7	− 2.3
Conception	26.8	+ 2.0	35.6	+ 8.5	42.2	+ 2.7	53.4	+ 1.5	62.6	+ 0.6	69.9	− 1.7	76.2	− 0.2	71.4	− 3.2	70.6	+ 3.4	60.4	+ 4.9	42.0	+ 0.6	24.2	− 5.1	52.9	+ 1.1
Edgerton	26.4[d]	......	38.2[c]	......	43.2[c]	......	56.1[b]	......	63.6[g]	......	70.2[a]	......	75.1[a]	......	70.4[b]	......	69.6	......	59.0[b]	......	43.9[d]	......	25.0[d]	......	53.4	......
Grant City	26.9	+ 2.0	35.2	+ 7.9	41.4	+ 0.1	52.7	+ 1.2	61.4	− 0.7	66.7	− 4.6	74.8	− 1.4	69.0	− 5.9	69.8	+ 2.8	59.4	+ 4.0	41.9	− 0.5	23.4	− 4.3	51.9	0.0
Kansas City	30.8	+ 2.6	40.3	+ 9.1	45.5	+ 2.8	57.0	+ 2.2	64.3	− 0.5	70.4	− 3.2	77.0	− 1.1	71.4	− 5.2	71.6	+ 2.7	62.7	+ 5.0	45.2	+ 1.5	28.1	− 4.4	55.4	+ 1.0
Kidder	22.9	− 4.0	33.5	+ 5.7	40.2	− 1.0	52.0	− 0.4	61.2	− 1.9	67.2	− 5.2	73.2	− 3.7	68.0	− 7.7	67.8	+ 0.1	56.8	+ 0.4	40.0	− 2.4	23.0	− 6.7	50.5	− 2.2
Lexington	29.0	+ 1.5	40.4	+11.0	45.4	+ 2.5	57.6	+ 3.5	64.2	− 0.2	70.6	− 2.2	77.8	+ 0.7	73.2	− 2.8	72.8	+ 4.3	62.4	+ 4.9	46.4	+ 2.4	29.2	− 2.3	55.8	+ 1.9
Liberty	....	......	....	......	....	......	....	......	....	......	....	......	....	......	73.0	− 4.0	71.8[a]	+ 2.4	60.6[a]	+ 3.1	45.4	+ 1.4	....	......	....	......
Maryville	27.7	+ 5.3	35.8	+11.7	42.4	+ 5.2	54.0	+ 3.9	62.5	+ 1.4	68.3[c]	− 1.3	75.6	0.0	70.3	− 3.3	70.0	+ 4.6	60.4	+ 7.1	42.0	+ 3.0	23.8	− 2.5	52.7	+ 2.9
Oregon	29.3	+ 5.4	37.9	+ 9.7	43.4	+ 4.1	55.9	+ 2.0	64.8	+ 1.6	71.9	− 0.4	77.4	+ 1.8	72.4	− 2.6	71.5	+ 4.5	62.5	+ 7.6	44.0	+ 3.7	26.1	− 2.4	54.8	+ 2.9
St. Joseph	29.0	+ 1.8	38.0	+ 7.0	43.9	+ 1.7	55.8	+ 2.0	64.2	+ 0.2	71.2	− 3.0	77.2	− 1.6	71.4	− 5.6	71.2	+ 2.5	61.2	+ 4.9	43.3	− 0.3	25.4	− 4.7	54.3	+ 0.4
Tarkio	25.9	+ 3.0	33.9	+ 5.9	40.6	0.0	52.6	+ 0.4	62.0	− 1.3	69.4	− 3.3	76.0	− 1.0	69.8	− 5.8	69.0	+ 2.4	58.2	+ 2.7	40.0	− 0.6	22.0	− 3.9	51.6	− 0.1
Trenton	27.8	+ 1.1	36.4	+ 7.9	43.0	+ 1.8	54.2[d]	+ 1.6	63.2	− 0.6	69.8	− 2.8	75.9	− 1.0	70.9	− 4.3	70.4	+ 3.0	59.0	+ 2.7	43.0	+ 0.6	24.6	− 5.0	53.2	+ 0.4
Section Means	27.3	+ 1.6	36.8	+ 8.2	42.8	+ 2.0	54.5	+ 1.8	63.1	− 0.4	69.5	− 3.0	76.0	− 1.0	70.9	− 4.6	70.5	+ 2.8	60.0	+ 4.0	43.0	+ 0.6	25.0	− 4.8	53.4	+ 0.6
State means	30.9	+ 0.5	41.4	+ 9.6	46.0	+ 2.2	57.8	+ 2.7	64.7	+ 0.1	70.4	− 3.1	75.8	− 1.6	71.2	− 4.8	71.6	+ 2.6	60.9	+ 3.5	46.8	+ 2.3	29.9	− 4.0	55.5	+ 0.7

Letters of alphabet indicate number of days missing from report: thus [a] one day; [b] two days, etc.

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